

Bak Conformational Changes Induced by Ligand Binding: Insight into BH3 Domain Binding and Bak Homo-Oligomerization

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DATASET 51
HEADER APOPTOSIS 28-JUN-10 XXXX
TITLE 3D MODEL OF BAK IN COMPLEX WITH THE BH3 DOMAIN OF NOXA
COMPND MOLECULE: APOPTOSIS REGULATOR BAK;
COMPND 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
COMPND 3 PROTEIN;
SOURCE MOLECULE 1 (RESIDUES 1-27): NOXA;
SOURCE 2 NCBI ACCESSION: Q13794;
SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE 4 ORGANISM_COMMON: HUMAN;
SOURCE 5 MOLECULE 2 (RESIDUES 28-190): BAK;
SOURCE 6 NCBI ACCESSION: Q16611;
SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE 8 ORGANISM_COMMON: HUMAN;
KEYWDS HETERODIMER, APOPTOSIS
EXPDTA THEORETICAL MODEL
JRNL AUTH Y-P PANG, H DAI, A SMITH, XW MENG, PA SCHNEIDER, SH KAUFMANN
JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING:
JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
JRNL REF SCIENTIFIC REPORTS, SUBMITTED
REMARK 220 THIS IS AN AVERAGE OF 5100 SIMILAR CONFORMERS IDENTIFIED
REMARK 220 BY CLUSTER ANALYSIS OF 52 10-NS MOLECULAR
REMARK 220 DYNAMICS SIMULATIONS OF BAK*NOXA USING PMEMD WITH THE
REMARK 220 FF99SB FORCE FIELD. NO ENERGY MINIMIZATION IS APPLIED
REMARK 220 TO THIS AVERAGE STRUCTURE.
MOL 1
ATOM 1 N ALA 1 -1.290 12.167 21.442
ATOM 2 H ALA 1 -1.330 12.286 21.538
ATOM 3 CA ALA 1 -1.195 12.060 21.274
ATOM 4 HA ALA 1 -1.114 11.784 21.203
ATOM 5 CB ALA 1 -1.533 12.552 21.427
ATOM 6 HB1 ALA 1 -1.625 12.659 21.446
ATOM 7 HB2 ALA 1 -1.629 12.659 21.468
ATOM 8 HB3 ALA 1 -1.587 12.692 21.479
ATOM 9 C ALA 1 -0.875 11.826 21.042
ATOM 10 O ALA 1 -0.890 11.814 20.919
ATOM 11 N GLU 2 -0.582 11.638 20.976
ATOM 12 H GLU 2 -0.582 11.654 21.084
ATOM 13 CA GLU 2 -0.260 11.439 20.753
ATOM 14 HA GLU 2 -0.356 11.633 20.797
ATOM 15 CB GLU 2 -0.429 11.733 21.177
ATOM 16 HB2 GLU 2 -0.331 11.643 21.156
ATOM 17 HB3 GLU 2 -0.496 11.763 21.334
ATOM 18 CG GLU 2 -0.640 12.113 21.425
ATOM 19 HG2 GLU 2 -0.617 12.151 21.386
ATOM 20 HG3 GLU 2 -0.657 12.211 21.346
ATOM 21 CD GLU 2 -0.856 12.312 21.833
ATOM 22 OE1 GLU 2 -0.950 12.448 22.005
ATOM 23 OE2 GLU 2 -0.934 12.339 21.989
ATOM 24 C GLU 2 0.371 10.708 20.043
ATOM 25 O GLU 2 0.880 11.146 19.420
ATOM 26 N LEU 3 0.323 9.592 20.108
ATOM 27 H LEU 3 -0.116 9.287 20.628
ATOM 28 CA LEU 3 0.908 8.784 19.485
ATOM 29 HA LEU 3 1.743 9.130 19.445
ATOM 30 CB LEU 3 0.893 7.671 20.181
ATOM 31 HB2 LEU 3 1.017 7.746 20.844
ATOM 32 HB3 LEU 3 0.309 7.315 20.152
ATOM 33 CG LEU 3 1.471 6.913 20.068
ATOM 34 HG LEU 3 1.232 6.765 19.473
ATOM 35 CD1 LEU 3 2.387 7.002 20.152
ATOM 36 HD11 LEU 3 2.638 6.976 20.226
ATOM 37 HD12 LEU 3 2.646 7.058 20.178
ATOM 38 HD13 LEU 3 2.551 7.033 20.104
ATOM 39 CD2 LEU 3 1.459 6.198 20.708
ATOM 40 HD21 LEU 3 1.487 6.060 20.851
ATOM 41 HD22 LEU 3 1.427 6.018 20.864
ATOM 42 HD23 LEU 3 1.453 5.990 20.871
ATOM 43 C LEU 3 0.468 8.600 18.230
ATOM 44 O LEU 3 1.079 8.288 17.480
ATOM 45 N GLU 4 -0.577 8.839 17.973
ATOM 46 H GLU 4 -1.037 9.067 18.626
ATOM 47 CA GLU 4 -1.100 8.782 16.789
ATOM 48 HA GLU 4 -0.839 7.981 16.389
ATOM 49 CB GLU 4 -2.445 8.680 16.926
ATOM 50 HB2 GLU 4 -2.768 8.826 16.873
ATOM 51 HB3 GLU 4 -2.628 8.524 16.827
ATOM 52 CG GLU 4 -3.130 8.569 17.235
ATOM 53 HG2 GLU 4 -3.078 8.641 17.170
ATOM 54 HG3 GLU 4 -2.985 8.457 17.011
ATOM 55 CD GLU 4 -4.092 8.507 17.924
ATOM 56 OE1 GLU 4 -4.475 8.521 18.205
ATOM 57 OE2 GLU 4 -4.480 8.441 18.198
ATOM 58 C GLU 4 -0.662 9.842 15.916
ATOM 59 O GLU 4 -0.631 9.690 14.799
ATOM 60 N VAL 5 -0.281 10.905 16.411
ATOM 61 H VAL 5 -0.309 10.962 17.330
ATOM 62 CA VAL 5 0.212 11.993 15.681
ATOM 63 HA VAL 5 -0.302 12.040 14.777
ATOM 64 CB VAL 5 -0.021 13.253 16.411
ATOM 65 HB VAL 5 0.346 13.410 16.762
ATOM 66 CG1 VAL 5 -0.133 14.090 16.108
ATOM 67 HG11 VAL 5 -0.149 14.307 16.017
ATOM 68 HG12 VAL 5 -0.180 14.279 16.023
ATOM 69 HG13 VAL 5 -0.149 14.309 16.070
ATOM 70 CG2 VAL 5 -0.673 13.540 16.977
ATOM 71 HG21 VAL 5 -0.801 13.625 17.085
ATOM 72 HG22 VAL 5 -0.879 13.617 17.135
ATOM 73 HG23 VAL 5 -0.813 13.600 17.138
    
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ATOM	74	C	VAL	5	1.619	11.832	15.317
ATOM	75	O	VAL	5	2.013	12.200	14.270
ATOM	76	N	GLU	6	2.379	11.221	16.124
ATOM	77	H	GLU	6	2.011	10.946	16.966
ATOM	78	CA	GLU	6	3.725	10.925	15.835
ATOM	79	HA	GLU	6	4.189	11.796	15.521
ATOM	80	CB	GLU	6	4.385	10.482	17.072
ATOM	81	HB2	GLU	6	4.156	10.620	17.647
ATOM	82	HB3	GLU	6	4.468	9.862	17.206
ATOM	83	CG	GLU	6	5.250	10.673	17.374
ATOM	84	HG2	GLU	6	5.209	10.495	17.369
ATOM	85	HG3	GLU	6	5.417	10.709	17.228
ATOM	86	CD	GLU	6	5.953	11.036	17.900
ATOM	87	OE1	GLU	6	6.235	11.114	18.076
ATOM	88	OE2	GLU	6	6.245	11.249	18.139
ATOM	89	C	GLU	6	3.881	9.926	14.711
ATOM	90	O	GLU	6	4.680	10.071	13.877
ATOM	91	N	CYS	7	3.077	8.956	14.630
ATOM	92	H	CYS	7	2.451	8.880	15.343
ATOM	93	CA	CYS	7	3.070	8.000	13.552
ATOM	94	HA	CYS	7	4.063	7.654	13.389
ATOM	95	CB	CYS	7	2.225	6.829	13.960
ATOM	96	HB2	CYS	7	1.821	6.807	14.486
ATOM	97	HB3	CYS	7	1.774	6.588	13.578
ATOM	98	SG	CYS	7	2.641	5.849	14.205
ATOM	99	HG	CYS	7	2.544	5.955	14.457
ATOM	100	C	CYS	7	2.610	8.605	12.242
ATOM	101	O	CYS	7	3.198	8.349	11.220
ATOM	102	N	ALA	8	1.616	9.467	12.261
ATOM	103	H	ALA	8	1.162	9.636	13.117
ATOM	104	CA	ALA	8	1.176	10.195	11.089
ATOM	105	HA	ALA	8	0.968	9.492	10.311
ATOM	106	CB	ALA	8	-0.101	10.916	11.421
ATOM	107	HB1	ALA	8	-0.428	11.077	11.462
ATOM	108	HB2	ALA	8	-0.411	11.071	11.528
ATOM	109	HB3	ALA	8	-0.391	11.125	11.494
ATOM	110	C	ALA	8	2.233	11.152	10.554
ATOM	111	O	ALA	8	2.421	11.241	9.361
ATOM	112	N	THR	9	2.973	11.813	11.422
ATOM	113	H	THR	9	2.756	11.716	12.380
ATOM	114	CA	THR	9	4.082	12.687	11.049
ATOM	115	HA	THR	9	3.737	13.371	10.297
ATOM	116	CB	THR	9	4.555	13.506	12.234
ATOM	117	HB	THR	9	4.980	12.990	12.879
ATOM	118	CG2	THR	9	5.392	14.496	11.963
ATOM	119	HG21	THR	9	5.613	14.721	11.889
ATOM	120	HG22	THR	9	5.599	14.742	11.924
ATOM	121	HG23	THR	9	5.588	14.744	11.890
ATOM	122	OG1	THR	9	3.653	14.071	12.819
ATOM	123	HG1	THR	9	3.352	13.816	13.363
ATOM	124	C	THR	9	5.230	11.911	10.438
ATOM	125	O	THR	9	5.756	12.320	9.424
ATOM	126	N	GLN	10	5.576	10.754	10.980
ATOM	127	H	GLN	10	5.124	10.471	11.816
ATOM	128	CA	GLN	10	6.595	9.882	10.418
ATOM	129	HA	GLN	10	7.489	10.458	10.277
ATOM	130	CB	GLN	10	6.906	8.760	11.397
ATOM	131	HB2	GLN	10	6.552	8.693	11.992
ATOM	132	HB3	GLN	10	6.826	8.118	11.190
ATOM	133	CG	GLN	10	7.815	8.578	11.862
ATOM	134	HG2	GLN	10	7.944	8.591	11.572
ATOM	135	HG3	GLN	10	7.972	8.879	11.993
ATOM	136	CD	GLN	10	8.355	7.960	12.551
ATOM	137	OE1	GLN	10	8.253	7.925	12.944
ATOM	138	NE2	GLN	10	8.952	7.456	12.724
ATOM	139	HE21	GLN	10	9.055	7.477	12.415
ATOM	140	HE22	GLN	10	9.306	7.057	13.176
ATOM	141	C	GLN	10	6.203	9.342	9.047
ATOM	142	O	GLN	10	7.021	9.323	8.150
ATOM	143	N	LEU	11	4.950	8.974	8.845
ATOM	144	H	LEU	11	4.338	8.971	9.626
ATOM	145	CA	LEU	11	4.429	8.527	7.559
ATOM	146	HA	LEU	11	5.095	7.770	7.184
ATOM	147	CB	LEU	11	3.060	7.897	7.789
ATOM	148	HB2	LEU	11	3.124	7.224	8.569
ATOM	149	HB3	LEU	11	2.403	8.629	8.083
ATOM	150	CG	LEU	11	2.447	7.185	6.651
ATOM	151	HG	LEU	11	2.368	7.829	5.955
ATOM	152	CD1	LEU	11	3.114	6.086	6.166
ATOM	153	HD11	LEU	11	3.248	5.853	5.975
ATOM	154	HD12	LEU	11	3.235	5.752	6.098
ATOM	155	HD13	LEU	11	3.342	5.852	6.056
ATOM	156	CD2	LEU	11	1.195	6.670	6.928
ATOM	157	HD21	LEU	11	0.904	6.531	7.038
ATOM	158	HD22	LEU	11	0.872	6.600	6.987
ATOM	159	HD23	LEU	11	0.896	6.511	6.958
ATOM	160	C	LEU	11	4.398	9.648	6.518
ATOM	161	O	LEU	11	4.725	9.419	5.367
ATOM	162	N	ARG	12	4.085	10.875	6.918
ATOM	163	H	ARG	12	3.790	10.982	7.860
ATOM	164	CA	ARG	12	4.127	12.061	6.063
ATOM	165	HA	ARG	12	3.606	11.843	5.148
ATOM	166	CB	ARG	12	3.418	13.208	6.763
ATOM	167	HB2	ARG	12	2.813	12.963	7.207
ATOM	168	HB3	ARG	12	3.873	13.612	7.277
ATOM	169	CG	ARG	12	2.877	14.145	6.174
ATOM	170	HG2	ARG	12	3.410	14.380	5.707
ATOM	171	HG3	ARG	12	2.404	13.801	5.736
ATOM	172	CD	ARG	12	2.214	15.236	6.793
ATOM	173	HD2	ARG	12	2.032	15.873	6.184
ATOM	174	HD3	ARG	12	1.455	14.952	7.088
ATOM	175	NE	ARG	12	2.797	15.837	7.745
ATOM	176	HE	ARG	12	3.494	16.099	7.612
ATOM	177	CZ	ARG	12	2.508	16.118	8.748
ATOM	178	NH1	ARG	12	1.631	15.859	9.068

ATOM	179	HH11	ARG	12	1.111	15.452	8.554
ATOM	180	HH12	ARG	12	1.446	16.127	9.836
ATOM	181	NH2	ARG	12	3.116	16.678	9.472
ATOM	182	HH21	ARG	12	3.785	16.920	9.262
ATOM	183	HH22	ARG	12	2.892	16.901	10.222
ATOM	184	C	ARG	12	5.538	12.420	5.642
ATOM	185	O	ARG	12	5.769	12.638	4.469
ATOM	186	N	ARG	13	6.491	12.392	6.562
ATOM	187	H	ARG	13	6.210	12.222	7.499
ATOM	188	CA	ARG	13	7.911	12.612	6.287
ATOM	189	HA	ARG	13	8.021	13.538	5.755
ATOM	190	CB	ARG	13	8.676	12.713	7.596
ATOM	191	HB2	ARG	13	8.420	12.264	8.180
ATOM	192	HB3	ARG	13	9.416	12.501	7.551
ATOM	193	CG	ARG	13	8.813	13.713	8.177
ATOM	194	HG2	ARG	13	9.100	14.134	7.694
ATOM	195	HG3	ARG	13	8.139	13.928	8.202
ATOM	196	CD	ARG	13	9.496	13.861	9.390
ATOM	197	HD2	ARG	13	9.452	13.530	9.730
ATOM	198	HD3	ARG	13	10.012	13.887	9.460
ATOM	199	NE	ARG	13	9.534	14.409	10.005
ATOM	200	HE	ARG	13	9.458	14.692	9.653
ATOM	201	CZ	ARG	13	9.679	14.579	10.978
ATOM	202	NH1	ARG	13	9.808	14.272	11.550
ATOM	203	HH11	ARG	13	9.822	13.897	11.274
ATOM	204	HH12	ARG	13	9.915	14.425	12.284
ATOM	205	NH2	ARG	13	9.693	15.073	11.408
ATOM	206	HH21	ARG	13	9.612	15.330	11.010
ATOM	207	HH22	ARG	13	9.803	15.196	12.146
ATOM	208	C	ARG	13	8.502	11.550	5.376
ATOM	209	O	ARG	13	9.230	11.888	4.467
ATOM	210	N	PHE	14	8.137	10.297	5.553
ATOM	211	H	PHE	14	7.577	10.087	6.344
ATOM	212	CA	PHE	14	8.514	9.212	4.659
ATOM	213	HA	PHE	14	9.583	9.214	4.550
ATOM	214	CB	PHE	14	8.105	7.888	5.282
ATOM	215	HB2	PHE	14	8.545	7.812	6.236
ATOM	216	HB3	PHE	14	7.064	7.878	5.428
ATOM	217	CG	PHE	14	8.473	6.675	4.518
ATOM	218	CD1	PHE	14	8.851	6.114	4.236
ATOM	219	HD1	PHE	14	8.885	6.542	4.555
ATOM	220	CE1	PHE	14	9.184	4.993	3.539
ATOM	221	HE1	PHE	14	9.470	4.568	3.330
ATOM	222	CZ	PHE	14	9.142	4.427	3.121
ATOM	223	HZ	PHE	14	9.397	3.567	2.595
ATOM	224	CE2	PHE	14	8.768	4.980	3.399
ATOM	225	HE2	PHE	14	8.735	4.544	3.082
ATOM	226	CD2	PHE	14	8.435	6.101	4.095
ATOM	227	HD2	PHE	14	8.150	6.518	4.307
ATOM	228	C	PHE	14	7.924	9.391	3.265
ATOM	229	O	PHE	14	8.630	9.252	2.287
ATOM	230	N	GLY	15	6.660	9.767	3.166
ATOM	231	H	GLY	15	6.126	9.837	3.999
ATOM	232	CA	GLY	15	5.997	10.062	1.908
ATOM	233	HA2	GLY	15	6.023	9.196	1.282
ATOM	234	HA3	GLY	15	4.976	10.303	2.119
ATOM	235	C	GLY	15	6.609	11.219	1.140
ATOM	236	O	GLY	15	6.777	11.131	-0.055
ATOM	237	N	ASP	16	7.021	12.271	1.815
ATOM	238	H	ASP	16	6.816	12.309	2.784
ATOM	239	CA	ASP	16	7.699	13.404	1.200
ATOM	240	HA	ASP	16	7.167	13.679	0.309
ATOM	241	CB	ASP	16	7.666	14.587	2.147
ATOM	242	HB2	ASP	16	7.836	14.395	3.023
ATOM	243	HB3	ASP	16	8.294	15.167	1.929
ATOM	244	CG	ASP	16	6.593	15.288	2.196
ATOM	245	OD1	ASP	16	6.260	15.680	2.415
ATOM	246	OD2	ASP	16	6.082	15.513	2.004
ATOM	247	C	ASP	16	9.126	13.086	0.764
ATOM	248	O	ASP	16	9.563	13.554	-0.267
ATOM	249	N	LYS	17	9.838	12.237	1.487
ATOM	250	H	LYS	17	9.439	11.913	2.332
ATOM	251	CA	LYS	17	11.143	11.717	1.081
ATOM	252	HA	LYS	17	11.758	12.540	0.771
ATOM	253	CB	LYS	17	11.809	11.037	2.263
ATOM	254	HB2	LYS	17	11.544	11.174	2.942
ATOM	255	HB3	LYS	17	11.790	10.312	2.279
ATOM	256	CG	LYS	17	12.870	11.153	2.523
ATOM	257	HG2	LYS	17	13.151	10.993	2.167
ATOM	258	HG3	LYS	17	12.858	11.611	2.407
ATOM	259	CD	LYS	17	13.574	10.852	3.432
ATOM	260	HD2	LYS	17	13.424	10.819	3.712
ATOM	261	HD3	LYS	17	13.672	10.537	3.457
ATOM	262	CE	LYS	17	14.353	11.023	3.915
ATOM	263	HE2	LYS	17	14.450	11.005	3.792
ATOM	264	HE3	LYS	17	14.332	11.222	3.847
ATOM	265	NZ	LYS	17	14.999	10.954	4.626
ATOM	266	HZ1	LYS	17	15.155	10.927	4.806
ATOM	267	HZ2	LYS	17	15.166	10.930	4.781
ATOM	268	HZ3	LYS	17	15.165	10.954	4.822
ATOM	269	C	LYS	17	11.038	10.799	-0.122
ATOM	270	O	LYS	17	11.854	10.869	-1.009
ATOM	271	N	LEU	18	9.996	10.003	-0.204
ATOM	272	H	LEU	18	9.391	9.971	0.576
ATOM	273	CA	LEU	18	9.689	9.169	-1.352
ATOM	274	HA	LEU	18	10.586	8.638	-1.620
ATOM	275	CB	LEU	18	8.627	8.154	-0.948
ATOM	276	HB2	LEU	18	8.788	7.841	-0.107
ATOM	277	HB3	LEU	18	7.795	8.535	-0.903
ATOM	278	CG	LEU	18	8.429	7.035	-1.669
ATOM	279	HG	LEU	18	8.227	7.380	-2.174
ATOM	280	CD1	LEU	18	9.091	6.256	-1.915
ATOM	281	HD11	LEU	18	9.225	6.049	-1.944
ATOM	282	HD12	LEU	18	9.240	6.058	-2.064
ATOM	283	HD13	LEU	18	9.290	6.091	-1.930

ATOM	284	CD2	LEU	18	7.784	6.167	-1.447
ATOM	285	HD21	LEU	18	7.605	5.984	-1.404
ATOM	286	HD22	LEU	18	7.616	5.920	-1.418
ATOM	287	HD23	LEU	18	7.658	5.966	-1.364
ATOM	288	C	LEU	18	9.283	9.996	-2.568
ATOM	289	O	LEU	18	9.658	9.670	-3.660
ATOM	290	N	ASN	19	8.597	11.108	-2.394
ATOM	291	H	ASN	19	8.284	11.308	-1.487
ATOM	292	CA	ASN	19	8.239	12.021	-3.458
ATOM	293	HA	ASN	19	7.736	11.465	-4.204
ATOM	294	CB	ASN	19	7.289	13.075	-2.929
ATOM	295	HB2	ASN	19	6.531	12.628	-2.363
ATOM	296	HB3	ASN	19	7.796	13.729	-2.302
ATOM	297	CG	ASN	19	6.635	13.857	-3.990
ATOM	298	OD1	ASN	19	6.131	13.423	-4.795
ATOM	299	ND2	ASN	19	6.619	15.020	-4.033
ATOM	300	HD21	ASN	19	6.178	15.531	-4.725
ATOM	301	HD22	ASN	19	7.014	15.383	-3.369
ATOM	302	C	ASN	19	9.441	12.642	-4.116
ATOM	303	O	ASN	19	9.471	12.792	-5.286
ATOM	304	N	PHE	20	10.464	12.934	-3.387
ATOM	305	H	PHE	20	10.370	12.824	-2.430
ATOM	306	CA	PHE	20	11.714	13.401	-3.908
ATOM	307	HA	PHE	20	11.506	14.099	-4.637
ATOM	308	CB	PHE	20	12.445	14.079	-2.850
ATOM	309	HB2	PHE	20	12.052	14.592	-2.385
ATOM	310	HB3	PHE	20	12.679	13.564	-2.388
ATOM	311	CG	PHE	20	13.368	14.774	-2.987
ATOM	312	CD1	PHE	20	13.861	14.996	-3.088
ATOM	313	HD1	PHE	20	13.589	14.674	-3.064
ATOM	314	CE1	PHE	20	14.711	15.640	-3.218
ATOM	315	HE1	PHE	20	15.086	15.808	-3.293
ATOM	316	CZ	PHE	20	15.074	16.066	-3.248
ATOM	317	HZ	PHE	20	15.723	16.558	-3.348
ATOM	318	CE2	PHE	20	14.586	15.849	-3.144
ATOM	319	HE2	PHE	20	14.864	16.176	-3.167
ATOM	320	CD2	PHE	20	13.736	15.205	-3.014
ATOM	321	HD2	PHE	20	13.368	15.043	-2.935
ATOM	322	C	PHE	20	12.560	12.339	-4.559
ATOM	323	O	PHE	20	13.228	12.599	-5.484
ATOM	324	N	ARG	21	12.494	11.128	-4.131
ATOM	325	H	ARG	21	11.941	10.985	-3.368
ATOM	326	CA	ARG	21	13.205	10.011	-4.688
ATOM	327	HA	ARG	21	14.177	10.296	-4.874
ATOM	328	CB	ARG	21	13.237	8.919	-3.740
ATOM	329	HB2	ARG	21	13.287	9.144	-3.014
ATOM	330	HB3	ARG	21	12.597	8.531	-3.726
ATOM	331	CG	ARG	21	14.054	8.039	-3.754
ATOM	332	HG2	ARG	21	13.922	7.700	-3.856
ATOM	333	HG3	ARG	21	14.260	8.114	-4.062
ATOM	334	CD	ARG	21	14.761	7.501	-3.183
ATOM	335	HD2	ARG	21	15.122	7.967	-3.079
ATOM	336	HD3	ARG	21	14.402	7.487	-2.632
ATOM	337	NE	ARG	21	15.416	6.396	-3.480
ATOM	338	HE	ARG	21	15.068	5.783	-3.616
ATOM	339	CZ	ARG	21	16.422	6.105	-3.576
ATOM	340	NH1	ARG	21	17.001	6.790	-3.409
ATOM	341	HH11	ARG	21	16.710	7.578	-3.160
ATOM	342	HH12	ARG	21	17.759	6.517	-3.502
ATOM	343	NH2	ARG	21	16.880	5.090	-3.851
ATOM	344	HH21	ARG	21	16.474	4.529	-3.968
ATOM	345	HH22	ARG	21	17.640	4.872	-3.928
ATOM	346	C	ARG	21	12.692	9.578	-5.959
ATOM	347	O	ARG	21	13.398	9.154	-6.722
ATOM	348	N	GLN	22	11.488	9.742	-6.218
ATOM	349	H	GLN	22	10.965	10.071	-5.545
ATOM	350	CA	GLN	22	10.871	9.439	-7.398
ATOM	351	HA	GLN	22	11.130	8.542	-7.621
ATOM	352	CB	GLN	22	9.475	9.490	-7.283
ATOM	353	HB2	GLN	22	9.148	10.040	-6.747
ATOM	354	HB3	GLN	22	9.085	9.691	-7.959
ATOM	355	CG	GLN	22	9.015	8.529	-6.991
ATOM	356	HG2	GLN	22	9.249	8.139	-7.111
ATOM	357	HG3	GLN	22	9.025	8.340	-6.571
ATOM	358	CD	GLN	22	8.210	8.325	-7.104
ATOM	359	OE1	GLN	22	7.771	8.753	-7.195
ATOM	360	NE2	GLN	22	7.980	7.669	-7.111
ATOM	361	HE21	GLN	22	7.449	7.545	-7.208
ATOM	362	HE22	GLN	22	8.330	7.301	-7.054
ATOM	363	C	GLN	22	11.254	10.213	-8.458
ATOM	364	O	GLN	22	11.265	9.819	-9.458
ATOM	365	N	LYS	23	11.622	11.287	-8.251
ATOM	366	H	LYS	23	11.561	11.568	-7.420
ATOM	367	CA	LYS	23	12.102	12.073	-9.166
ATOM	368	HA	LYS	23	11.595	11.988	-9.987
ATOM	369	CB	LYS	23	11.975	13.327	-8.791
ATOM	370	HB2	LYS	23	11.867	13.449	-8.268
ATOM	371	HB3	LYS	23	12.403	13.704	-8.806
ATOM	372	CG	LYS	23	11.411	13.926	-9.104
ATOM	373	HG2	LYS	23	11.416	13.903	-9.480
ATOM	374	HG3	LYS	23	11.145	13.659	-9.052
ATOM	375	CD	LYS	23	11.203	14.936	-8.973
ATOM	376	HD2	LYS	23	11.205	15.016	-8.667
ATOM	377	HD3	LYS	23	11.405	15.164	-9.039
ATOM	378	CE	LYS	23	10.711	15.523	-9.174
ATOM	379	HE2	LYS	23	10.628	15.549	-9.341
ATOM	380	HE3	LYS	23	10.609	15.413	-9.157
ATOM	381	NZ	LYS	23	10.483	16.196	-9.170
ATOM	382	HZ1	LYS	23	10.426	16.365	-9.180
ATOM	383	HZ2	LYS	23	10.409	16.362	-9.166
ATOM	384	HZ3	LYS	23	10.440	16.362	-9.164
ATOM	385	C	LYS	23	13.367	11.767	-9.456
ATOM	386	O	LYS	23	13.704	11.971	-10.386
ATOM	387	N	LEU	24	14.053	11.250	-8.685
ATOM	388	H	LEU	24	13.718	11.140	-7.933

ATOM	389	CA	LEU	24	15.248	10.851	-8.847
ATOM	390	HA	LEU	24	15.606	11.385	-9.420
ATOM	391	CB	LEU	24	15.970	10.864	-7.760
ATOM	392	HB2	LEU	24	15.828	11.300	-7.381
ATOM	393	HB3	LEU	24	15.934	10.398	-7.396
ATOM	394	CG	LEU	24	16.929	10.917	-7.622
ATOM	395	HG	LEU	24	16.891	10.532	-7.790
ATOM	396	CD1	LEU	24	17.492	11.394	-7.778
ATOM	397	HD11	LEU	24	17.645	11.527	-7.815
ATOM	398	HD12	LEU	24	17.635	11.517	-7.820
ATOM	399	HD13	LEU	24	17.613	11.480	-7.815
ATOM	400	CD2	LEU	24	17.420	11.011	-7.043
ATOM	401	HD21	LEU	24	17.516	11.036	-6.868
ATOM	402	HD22	LEU	24	17.569	10.996	-6.930
ATOM	403	HD23	LEU	24	17.537	11.064	-6.911
ATOM	404	C	LEU	24	15.311	9.747	-9.342
ATOM	405	O	LEU	24	15.986	9.538	-9.913
ATOM	406	N	LEU	25	14.597	9.054	-9.153
ATOM	407	H	LEU	25	14.081	9.271	-8.670
ATOM	408	CA	LEU	25	14.529	7.990	-9.578
ATOM	409	HA	LEU	25	15.240	7.732	-9.693
ATOM	410	CB	LEU	25	14.099	7.331	-8.818
ATOM	411	HB2	LEU	25	14.007	7.515	-8.386
ATOM	412	HB3	LEU	25	13.727	7.166	-8.941
ATOM	413	CG	LEU	25	14.255	6.640	-8.453
ATOM	414	HG	LEU	25	14.039	6.807	-8.629
ATOM	415	CD1	LEU	25	14.524	6.000	-8.172
ATOM	416	HD11	LEU	25	14.568	5.869	-8.140
ATOM	417	HD12	LEU	25	14.605	5.902	-8.069
ATOM	418	HD13	LEU	25	14.592	5.978	-8.106
ATOM	419	CD2	LEU	25	14.411	6.269	-8.090
ATOM	420	HD21	LEU	25	14.433	6.195	-7.992
ATOM	421	HD22	LEU	25	14.483	6.190	-7.998
ATOM	422	HD23	LEU	25	14.431	6.154	-8.012
ATOM	423	C	LEU	25	13.970	7.870	-10.604
ATOM	424	O	LEU	25	13.726	7.540	-10.932
ATOM	425	N	ASN	26	13.776	8.134	-11.116
ATOM	426	H	ASN	26	13.992	8.397	-10.802
ATOM	427	CA	ASN	26	13.269	8.051	-12.091
ATOM	428	HA	ASN	26	12.970	7.804	-12.274
ATOM	429	CB	ASN	26	12.961	8.504	-12.433
ATOM	430	HB2	ASN	26	12.870	8.679	-12.173
ATOM	431	HB3	ASN	26	13.169	8.694	-12.381
ATOM	432	CG	ASN	26	12.486	8.474	-13.188
ATOM	433	OD1	ASN	26	12.272	8.311	-13.488
ATOM	434	ND2	ASN	26	12.305	8.628	-13.520
ATOM	435	HD21	ASN	26	11.992	8.606	-14.020
ATOM	436	HD22	ASN	26	12.478	8.767	-13.282
ATOM	437	C	ASN	26	13.435	7.837	-12.519
ATOM	438	O	ASN	26	13.628	7.772	-12.715
ATOM	439	N	LEU	27	13.363	7.724	-12.667
ATOM	440	H	LEU	27	13.203	7.792	-12.495
ATOM	441	CA	LEU	27	13.495	7.514	-13.068
ATOM	442	HA	LEU	27	13.599	7.498	-13.149
ATOM	443	CB	LEU	27	13.458	7.471	-12.876
ATOM	444	HB2	LEU	27	13.355	7.586	-12.652
ATOM	445	HB3	LEU	27	13.442	7.389	-12.845
ATOM	446	CG	LEU	27	13.573	7.384	-13.008
ATOM	447	HG	LEU	27	13.627	7.365	-13.141
ATOM	448	CD1	LEU	27	13.529	7.324	-13.016
ATOM	449	HD11	LEU	27	13.527	7.359	-13.000
ATOM	450	HD12	LEU	27	13.511	7.294	-13.073
ATOM	451	HD13	LEU	27	13.520	7.278	-12.984
ATOM	452	CD2	LEU	27	13.658	7.379	-12.943
ATOM	453	HD21	LEU	27	13.699	7.342	-12.950
ATOM	454	HD22	LEU	27	13.667	7.404	-12.928
ATOM	455	HD23	LEU	27	13.677	7.388	-12.904
ATOM	456	C	LEU	27	13.526	7.361	-13.560
ATOM	457	O	LEU	27	13.467	7.339	-13.633
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ATOM	458	N	SER	28	-10.758	5.239	-16.379
ATOM	459	H	SER	28	-10.609	4.789	-16.460
ATOM	460	CA	SER	28	-10.359	5.816	-16.183
ATOM	461	HA	SER	28	-10.281	5.769	-15.665
ATOM	462	CB	SER	28	-9.557	5.492	-16.683
ATOM	463	HB2	SER	28	-9.596	5.503	-17.184
ATOM	464	HB3	SER	28	-9.260	5.906	-16.567
ATOM	465	OG	SER	28	-9.135	4.655	-16.651
ATOM	466	HG	SER	28	-9.121	4.314	-16.675
ATOM	467	C	SER	28	-10.816	6.807	-16.152
ATOM	468	O	SER	28	-10.325	7.404	-15.949
ATOM	469	N	ALA	29	-11.755	6.994	-16.342
ATOM	470	H	ALA	29	-12.109	6.469	-16.510
ATOM	471	CA	ALA	29	-12.283	7.915	-16.374
ATOM	472	HA	ALA	29	-11.719	8.375	-16.501
ATOM	473	CB	ALA	29	-12.799	7.810	-17.355
ATOM	474	HB1	ALA	29	-12.913	7.767	-17.589
ATOM	475	HB2	ALA	29	-12.951	7.806	-17.543
ATOM	476	HB3	ALA	29	-12.906	7.792	-17.650
ATOM	477	C	ALA	29	-13.037	8.401	-15.312
ATOM	478	O	ALA	29	-13.268	9.402	-15.222
ATOM	479	N	SER	30	-13.411	7.709	-14.497
ATOM	480	H	SER	30	-13.199	6.903	-14.627
ATOM	481	CA	SER	30	-14.075	8.043	-13.395
ATOM	482	HA	SER	30	-14.071	9.011	-13.330
ATOM	483	CB	SER	30	-15.385	7.690	-13.574
ATOM	484	HB2	SER	30	-15.699	7.933	-13.382
ATOM	485	HB3	SER	30	-15.678	7.628	-13.979
ATOM	486	OG	SER	30	-15.838	7.152	-13.463
ATOM	487	HG	SER	30	-16.429	7.009	-13.624
ATOM	488	C	SER	30	-13.493	7.471	-12.142
ATOM	489	O	SER	30	-12.917	6.409	-12.160
ATOM	490	N	GLU	31	-13.657	8.147	-11.029
ATOM	491	H	GLU	31	-14.124	9.011	-11.076

ATOM	492	CA	GLU	31	-13.124	7.730	-9.750
ATOM	493	HA	GLU	31	-12.067	7.619	-9.857
ATOM	494	CB	GLU	31	-13.359	8.821	-8.723
ATOM	495	HB2	GLU	31	-12.899	8.619	-7.930
ATOM	496	HB3	GLU	31	-13.000	9.628	-9.034
ATOM	497	CG	GLU	31	-14.632	9.127	-8.322
ATOM	498	HG2	GLU	31	-15.139	9.170	-9.082
ATOM	499	HG3	GLU	31	-14.932	8.408	-7.854
ATOM	500	CD	GLU	31	-14.819	10.350	-7.525
ATOM	501	OE1	GLU	31	-14.834	10.814	-7.150
ATOM	502	OE2	GLU	31	-14.953	10.878	-7.264
ATOM	503	C	GLU	31	-13.635	6.382	-9.277
ATOM	504	O	GLU	31	-12.897	5.634	-8.684
ATOM	505	N	GLU	32	-14.858	6.023	-9.595
ATOM	506	H	GLU	32	-15.412	6.666	-10.093
ATOM	507	CA	GLU	32	-15.429	4.734	-9.266
ATOM	508	HA	GLU	32	-15.194	4.510	-8.252
ATOM	509	CB	GLU	32	-16.929	4.796	-9.383
ATOM	510	HB2	GLU	32	-17.218	4.950	-9.709
ATOM	511	HB3	GLU	32	-17.265	4.467	-9.389
ATOM	512	CG	GLU	32	-17.602	5.078	-9.031
ATOM	513	HG2	GLU	32	-17.364	4.859	-8.763
ATOM	514	HG3	GLU	32	-17.356	5.389	-8.966
ATOM	515	CD	GLU	32	-18.932	5.229	-9.128
ATOM	516	OE1	GLU	32	-19.453	5.310	-9.177
ATOM	517	OE2	GLU	32	-19.471	5.270	-9.154
ATOM	518	C	GLU	32	-14.853	3.600	-10.102
ATOM	519	O	GLU	32	-14.736	2.507	-9.639
ATOM	520	N	GLN	33	-14.434	3.856	-11.312
ATOM	521	H	GLN	33	-14.530	4.773	-11.625
ATOM	522	CA	GLN	33	-13.723	2.905	-12.151
ATOM	523	HA	GLN	33	-14.175	1.944	-12.051
ATOM	524	CB	GLN	33	-13.829	3.321	-13.594
ATOM	525	HB2	GLN	33	-13.771	4.125	-13.741
ATOM	526	HB3	GLN	33	-13.240	3.013	-14.066
ATOM	527	CG	GLN	33	-14.792	3.053	-14.229
ATOM	528	HG2	GLN	33	-14.891	2.375	-14.217
ATOM	529	HG3	GLN	33	-15.286	3.309	-13.833
ATOM	530	CD	GLN	33	-14.971	3.349	-15.424
ATOM	531	OE1	GLN	33	-14.676	3.762	-15.881
ATOM	532	NE2	GLN	33	-15.459	3.156	-15.975
ATOM	533	HE21	GLN	33	-15.579	3.350	-16.749
ATOM	534	HE22	GLN	33	-15.707	2.819	-15.616
ATOM	535	C	GLN	33	-12.277	2.755	-11.724
ATOM	536	O	GLN	33	-11.766	1.664	-11.694
ATOM	537	N	VAL	34	-11.636	3.823	-11.310
ATOM	538	H	VAL	34	-12.101	4.688	-11.386
ATOM	539	CA	VAL	34	-10.294	3.799	-10.746
ATOM	540	HA	VAL	34	-9.664	3.224	-11.402
ATOM	541	CB	VAL	34	-9.712	5.203	-10.667
ATOM	542	HB	VAL	34	-10.390	5.843	-10.199
ATOM	543	CG1	VAL	34	-8.438	5.289	-9.931
ATOM	544	HG11	VAL	34	-8.134	5.390	-9.724
ATOM	545	HG12	VAL	34	-8.147	5.267	-9.714
ATOM	546	HG13	VAL	34	-8.105	5.305	-9.814
ATOM	547	CG2	VAL	34	-9.444	5.731	-12.008
ATOM	548	HG21	VAL	34	-9.349	5.864	-12.324
ATOM	549	HG22	VAL	34	-9.387	5.841	-12.358
ATOM	550	HG23	VAL	34	-9.399	5.886	-12.326
ATOM	551	C	VAL	34	-10.264	3.091	-9.408
ATOM	552	O	VAL	34	-9.316	2.390	-9.132
ATOM	553	N	ALA	35	-11.299	3.177	-8.594
ATOM	554	H	ALA	35	-12.024	3.811	-8.817
ATOM	555	CA	ALA	35	-11.407	2.410	-7.367
ATOM	556	HA	ALA	35	-10.537	2.598	-6.773
ATOM	557	CB	ALA	35	-12.598	2.906	-6.588
ATOM	558	HB1	ALA	35	-12.933	3.006	-6.437
ATOM	559	HB2	ALA	35	-12.860	2.983	-6.352
ATOM	560	HB3	ALA	35	-12.857	3.086	-6.398
ATOM	561	C	ALA	35	-11.463	0.903	-7.609
ATOM	562	O	ALA	35	-10.848	0.156	-6.895
ATOM	563	N	GLN	36	-12.117	0.453	-8.653
ATOM	564	H	GLN	36	-12.604	1.106	-9.197
ATOM	565	CA	GLN	36	-12.142	-0.944	-9.053
ATOM	566	HA	GLN	36	-12.336	-1.536	-8.186
ATOM	567	CB	GLN	36	-13.271	-1.167	-10.031
ATOM	568	HB2	GLN	36	-13.628	-0.638	-10.256
ATOM	569	HB3	GLN	36	-13.143	-1.434	-10.635
ATOM	570	CG	GLN	36	-14.111	-1.746	-9.900
ATOM	571	HG2	GLN	36	-14.056	-2.145	-9.798
ATOM	572	HG3	GLN	36	-14.120	-1.583	-9.557
ATOM	573	CD	GLN	36	-15.032	-2.015	-10.378
ATOM	574	OE1	GLN	36	-15.451	-2.074	-10.623
ATOM	575	NE2	GLN	36	-15.379	-2.184	-10.528
ATOM	576	HE21	GLN	36	-15.047	-2.140	-10.330
ATOM	577	HE22	GLN	36	-15.975	-2.354	-10.834
ATOM	578	C	GLN	36	-10.810	-1.425	-9.609
ATOM	579	O	GLN	36	-10.423	-2.536	-9.366
ATOM	580	N	ASP	37	-10.069	-0.589	-10.293
ATOM	581	H	ASP	37	-10.457	0.284	-10.515
ATOM	582	CA	ASP	37	-8.709	-0.880	-10.719
ATOM	583	HA	ASP	37	-8.674	-1.858	-11.156
ATOM	584	CB	ASP	37	-8.262	0.119	-11.765
ATOM	585	HB2	ASP	37	-8.424	1.089	-11.411
ATOM	586	HB3	ASP	37	-7.228	0.014	-11.913
ATOM	587	CG	ASP	37	-8.912	-0.017	-13.089
ATOM	588	OD1	ASP	37	-9.141	-0.021	-13.638
ATOM	589	OD2	ASP	37	-9.169	-0.109	-13.610
ATOM	590	C	ASP	37	-7.724	-0.889	-9.555
ATOM	591	O	ASP	37	-6.825	-1.702	-9.524
ATOM	592	N	THR	38	-7.919	-0.037	-8.562
ATOM	593	H	THR	38	-8.675	0.596	-8.657
ATOM	594	CA	THR	38	-7.073	0.052	-7.369
ATOM	595	HA	THR	38	-6.058	0.205	-7.687
ATOM	596	CB	THR	38	-7.471	1.232	-6.492

ATOM	597	HB	THR	38	-8.459	1.078	-6.116
ATOM	598	CG2	THR	38	-6.540	1.459	-5.328
ATOM	599	HG21	THR	38	-6.313	1.527	-5.045
ATOM	600	HG22	THR	38	-6.325	1.513	-5.033
ATOM	601	HG23	THR	38	-6.310	1.506	-5.046
ATOM	602	OG1	THR	38	-7.458	2.418	-7.223
ATOM	603	HG1	THR	38	-8.138	2.380	-7.857
ATOM	604	C	THR	38	-7.097	-1.230	-6.553
ATOM	605	O	THR	38	-6.085	-1.608	-5.996
ATOM	606	N	GLU	39	-8.209	-1.947	-6.519
ATOM	607	H	GLU	39	-9.010	-1.591	-6.982
ATOM	608	CA	GLU	39	-8.293	-3.254	-5.878
ATOM	609	HA	GLU	39	-7.931	-3.166	-4.870
ATOM	610	CB	GLU	39	-9.743	-3.701	-5.829
ATOM	611	HB2	GLU	39	-10.280	-3.089	-5.607
ATOM	612	HB3	GLU	39	-10.029	-3.951	-6.575
ATOM	613	CG	GLU	39	-10.105	-4.622	-5.062
ATOM	614	HG2	GLU	39	-9.446	-5.021	-4.955
ATOM	615	HG3	GLU	39	-10.226	-4.280	-4.411
ATOM	616	CD	GLU	39	-11.198	-5.472	-5.308
ATOM	617	OE1	GLU	39	-11.644	-5.820	-5.363
ATOM	618	OE2	GLU	39	-11.613	-5.816	-5.447
ATOM	619	C	GLU	39	-7.422	-4.301	-6.573
ATOM	620	O	GLU	39	-6.768	-5.089	-5.918
ATOM	621	N	GLU	40	-7.357	-4.278	-7.895
ATOM	622	H	GLU	40	-7.862	-3.571	-8.371
ATOM	623	CA	GLU	40	-6.525	-5.177	-8.684
ATOM	624	HA	GLU	40	-6.649	-6.174	-8.294
ATOM	625	CB	GLU	40	-6.999	-5.153	-10.135
ATOM	626	HB2	GLU	40	-7.985	-5.059	-10.172
ATOM	627	HB3	GLU	40	-6.632	-4.365	-10.612
ATOM	628	CG	GLU	40	-6.670	-6.285	-10.921
ATOM	629	HG2	GLU	40	-6.843	-6.076	-11.762
ATOM	630	HG3	GLU	40	-5.798	-6.439	-10.886
ATOM	631	CD	GLU	40	-7.300	-7.473	-10.652
ATOM	632	OE1	GLU	40	-7.722	-7.862	-10.542
ATOM	633	OE2	GLU	40	-7.388	-8.018	-10.485
ATOM	634	C	GLU	40	-5.041	-4.839	-8.565
ATOM	635	O	GLU	40	-4.224	-5.733	-8.424
ATOM	636	N	VAL	41	-4.692	-3.560	-8.535
ATOM	637	H	VAL	41	-5.409	-2.889	-8.686
ATOM	638	CA	VAL	41	-3.337	-3.086	-8.246
ATOM	639	HA	VAL	41	-2.655	-3.560	-8.932
ATOM	640	CB	VAL	41	-3.222	-1.569	-8.434
ATOM	641	HB	VAL	41	-3.978	-1.090	-7.868
ATOM	642	CG1	VAL	41	-1.898	-1.012	-7.995
ATOM	643	HG11	VAL	41	-1.540	-0.918	-7.948
ATOM	644	HG12	VAL	41	-1.607	-0.789	-7.904
ATOM	645	HG13	VAL	41	-1.586	-0.899	-7.805
ATOM	646	CG2	VAL	41	-3.403	-1.174	-9.869
ATOM	647	HG21	VAL	41	-3.488	-1.100	-10.208
ATOM	648	HG22	VAL	41	-3.453	-1.032	-10.211
ATOM	649	HG23	VAL	41	-3.415	-1.088	-10.234
ATOM	650	C	VAL	41	-2.907	-3.496	-6.845
ATOM	651	O	VAL	41	-1.818	-4.016	-6.688
ATOM	652	N	PHE	42	-3.750	-3.323	-5.832
ATOM	653	H	PHE	42	-4.630	-2.895	-6.018
ATOM	654	CA	PHE	42	-3.405	-3.628	-4.448
ATOM	655	HA	PHE	42	-2.450	-3.176	-4.240
ATOM	656	CB	PHE	42	-4.417	-2.999	-3.502
ATOM	657	HB2	PHE	42	-4.522	-1.973	-3.744
ATOM	658	HB3	PHE	42	-5.365	-3.448	-3.651
ATOM	659	CG	PHE	42	-4.054	-3.092	-2.057
ATOM	660	CD1	PHE	42	-3.612	-2.819	-1.400
ATOM	661	HD1	PHE	42	-3.533	-2.547	-1.917
ATOM	662	CE1	PHE	42	-3.266	-2.911	-0.073
ATOM	663	HE1	PHE	42	-2.926	-2.707	0.421
ATOM	664	CZ	PHE	42	-3.365	-3.272	0.608
ATOM	665	HZ	PHE	42	-3.103	-3.348	1.622
ATOM	666	CE2	PHE	42	-3.804	-3.540	-0.040
ATOM	667	HE2	PHE	42	-3.875	-3.820	0.476
ATOM	668	CD2	PHE	42	-4.146	-3.451	-1.369
ATOM	669	HD2	PHE	42	-4.475	-3.664	-1.859
ATOM	670	C	PHE	42	-3.238	-5.123	-4.197
ATOM	671	O	PHE	42	-2.241	-5.521	-3.618
ATOM	672	N	ARG	43	-4.141	-5.972	-4.689
ATOM	673	H	ARG	43	-4.934	-5.595	-5.161
ATOM	674	CA	ARG	43	-4.000	-7.433	-4.591
ATOM	675	HA	ARG	43	-3.873	-7.703	-3.555
ATOM	676	CB	ARG	43	-5.246	-8.129	-5.135
ATOM	677	HB2	ARG	43	-5.521	-7.704	-6.047
ATOM	678	HB3	ARG	43	-5.022	-9.134	-5.308
ATOM	679	CG	ARG	43	-6.404	-8.082	-4.207
ATOM	680	HG2	ARG	43	-6.077	-8.442	-3.288
ATOM	681	HG3	ARG	43	-6.695	-7.092	-4.067
ATOM	682	CD	ARG	43	-7.598	-8.913	-4.644
ATOM	683	HD2	ARG	43	-7.278	-9.842	-4.993
ATOM	684	HD3	ARG	43	-8.189	-9.098	-3.807
ATOM	685	NE	ARG	43	-8.435	-8.275	-5.609
ATOM	686	HE	ARG	43	-9.163	-7.743	-5.271
ATOM	687	CZ	ARG	43	-8.358	-8.299	-6.876
ATOM	688	NH1	ARG	43	-7.517	-8.985	-7.496
ATOM	689	HH11	ARG	43	-6.981	-9.643	-7.034
ATOM	690	HH12	ARG	43	-7.455	-8.907	-8.452
ATOM	691	NH2	ARG	43	-9.158	-7.620	-7.560
ATOM	692	HH21	ARG	43	-9.865	-7.136	-7.119
ATOM	693	HH22	ARG	43	-9.109	-7.652	-8.522
ATOM	694	C	ARG	43	-2.744	-7.937	-5.293
ATOM	695	O	ARG	43	-2.041	-8.770	-4.750
ATOM	696	N	SER	44	-2.417	-7.379	-6.447
ATOM	697	H	SER	44	-3.046	-6.714	-6.833
ATOM	698	CA	SER	44	-1.190	-7.693	-7.177
ATOM	699	HA	SER	44	-1.106	-8.763	-7.266
ATOM	700	CB	SER	44	-1.241	-7.120	-8.582
ATOM	701	HB2	SER	44	-1.335	-6.142	-8.581

ATOM	702	HB3	SER	44	-0.417	-7.330	-9.073
ATOM	703	OG	SER	44	-2.219	-7.586	-9.268
ATOM	704	HG	SER	44	-2.892	-7.057	-9.122
ATOM	705	C	SER	44	0.061	-7.212	-6.451
ATOM	706	O	SER	44	1.025	-7.945	-6.368
ATOM	707	N	TYR	45	0.045	-6.022	-5.866
ATOM	708	H	TYR	45	-0.764	-5.456	-5.978
ATOM	709	CA	TYR	45	1.136	-5.492	-5.055
ATOM	710	HA	TYR	45	2.036	-5.491	-5.650
ATOM	711	CB	TYR	45	0.822	-4.049	-4.666
ATOM	712	HB2	TYR	45	0.733	-3.471	-5.550
ATOM	713	HB3	TYR	45	-0.120	-4.020	-4.184
ATOM	714	CG	TYR	45	1.812	-3.374	-3.775
ATOM	715	CD1	TYR	45	2.620	-3.073	-3.670
ATOM	716	HD1	TYR	45	2.542	-3.335	-4.219
ATOM	717	CE1	TYR	45	3.526	-2.432	-2.850
ATOM	718	HE1	TYR	45	4.140	-2.200	-2.771
ATOM	719	CZ	TYR	45	3.630	-2.090	-2.133
ATOM	720	OH	TYR	45	4.501	-1.474	-1.350
ATOM	721	HH	TYR	45	4.991	-1.356	-1.320
ATOM	722	CE2	TYR	45	2.820	-2.386	-2.236
ATOM	723	HE2	TYR	45	2.902	-2.114	-1.684
ATOM	724	CD2	TYR	45	1.912	-3.027	-3.052
ATOM	725	HD2	TYR	45	1.297	-3.253	-3.124
ATOM	726	C	TYR	45	1.411	-6.363	-3.832
ATOM	727	O	TYR	45	2.548	-6.734	-3.608
ATOM	728	N	VAL	46	0.386	-6.759	-3.085
ATOM	729	H	VAL	46	-0.520	-6.419	-3.321
ATOM	730	CA	VAL	46	0.518	-7.643	-1.922
ATOM	731	HA	VAL	46	1.211	-7.192	-1.234
ATOM	732	CB	VAL	46	-0.826	-7.805	-1.207
ATOM	733	HB	VAL	46	-1.542	-8.091	-1.895
ATOM	734	CG1	VAL	46	-0.813	-8.815	-0.144
ATOM	735	HG11	VAL	46	-0.833	-9.059	0.129
ATOM	736	HG12	VAL	46	-0.818	-9.084	0.099
ATOM	737	HG13	VAL	46	-0.803	-9.054	0.112
ATOM	738	CG2	VAL	46	-1.298	-6.555	-0.578
ATOM	739	HG21	VAL	46	-1.417	-6.244	-0.431
ATOM	740	HG22	VAL	46	-1.428	-6.248	-0.429
ATOM	741	HG23	VAL	46	-1.420	-6.250	-0.418
ATOM	742	C	VAL	46	1.122	-8.987	-2.305
ATOM	743	O	VAL	46	2.028	-9.448	-1.639
ATOM	744	N	PHE	47	0.686	-9.587	-3.399
ATOM	745	H	PHE	47	-0.056	-9.161	-3.902
ATOM	746	CA	PHE	47	1.223	-10.846	-3.891
ATOM	747	HA	PHE	47	1.204	-11.563	-3.087
ATOM	748	CB	PHE	47	0.331	-11.371	-5.007
ATOM	749	HB2	PHE	47	-0.657	-11.481	-4.634
ATOM	750	HB3	PHE	47	0.285	-10.658	-5.792
ATOM	751	CG	PHE	47	0.764	-12.673	-5.576
ATOM	752	CD1	PHE	47	0.489	-13.754	-5.074
ATOM	753	HD1	PHE	47	-0.040	-13.662	-4.297
ATOM	754	CE1	PHE	47	0.902	-14.949	-5.588
ATOM	755	HE1	PHE	47	0.690	-15.770	-5.204
ATOM	756	CZ	PHE	47	1.587	-15.073	-6.607
ATOM	757	HZ	PHE	47	1.899	-15.986	-7.001
ATOM	758	CE2	PHE	47	1.861	-14.001	-7.116
ATOM	759	HE2	PHE	47	2.381	-14.094	-7.901
ATOM	760	CD2	PHE	47	1.450	-12.803	-6.603
ATOM	761	HD2	PHE	47	1.662	-11.984	-7.000
ATOM	762	C	PHE	47	2.679	-10.728	-4.333
ATOM	763	O	PHE	47	3.523	-11.458	-3.846
ATOM	764	N	TYR	48	3.004	-9.794	-5.213
ATOM	765	H	TYR	48	2.286	-9.207	-5.570
ATOM	766	CA	TYR	48	4.346	-9.668	-5.766
ATOM	767	HA	TYR	48	4.693	-10.659	-6.013
ATOM	768	CB	TYR	48	4.329	-8.861	-7.058
ATOM	769	HB2	TYR	48	3.817	-7.937	-6.898
ATOM	770	HB3	TYR	48	5.337	-8.624	-7.317
ATOM	771	CG	TYR	48	3.728	-9.576	-8.226
ATOM	772	CD1	TYR	48	4.300	-10.730	-8.684
ATOM	773	HD1	TYR	48	5.161	-11.104	-8.216
ATOM	774	CE1	TYR	48	3.744	-11.406	-9.749
ATOM	775	HE1	TYR	48	4.179	-12.290	-10.084
ATOM	776	CZ	TYR	48	2.618	-10.924	-10.374
ATOM	777	OH	TYR	48	2.081	-11.564	-11.400
ATOM	778	HH	TYR	48	2.525	-12.338	-11.585
ATOM	779	CE2	TYR	48	2.058	-9.760	-9.935
ATOM	780	HE2	TYR	48	1.204	-9.393	-10.421
ATOM	781	CD2	TYR	48	2.614	-9.088	-8.868
ATOM	782	HD2	TYR	48	2.185	-8.193	-8.545
ATOM	783	C	TYR	48	5.357	-9.126	-4.765
ATOM	784	O	TYR	48	6.473	-9.602	-4.746
ATOM	785	N	ARG	49	4.988	-8.213	-3.871
ATOM	786	H	ARG	49	4.064	-7.849	-3.914
ATOM	787	CA	ARG	49	5.888	-7.737	-2.817
ATOM	788	HA	ARG	49	6.826	-7.491	-3.287
ATOM	789	CB	ARG	49	5.328	-6.473	-2.159
ATOM	790	HB2	ARG	49	5.017	-5.794	-2.901
ATOM	791	HB3	ARG	49	4.480	-6.721	-1.590
ATOM	792	CG	ARG	49	6.283	-5.755	-1.262
ATOM	793	HG2	ARG	49	5.777	-4.978	-0.798
ATOM	794	HG3	ARG	49	6.588	-6.413	-0.523
ATOM	795	CD	ARG	49	7.486	-5.171	-1.934
ATOM	796	HD2	ARG	49	7.736	-5.745	-2.719
ATOM	797	HD3	ARG	49	7.282	-4.245	-2.283
ATOM	798	NE	ARG	49	8.567	-5.062	-1.088
ATOM	799	HE	ARG	49	8.388	-4.814	-0.258
ATOM	800	CZ	ARG	49	9.744	-5.333	-1.264
ATOM	801	NH1	ARG	49	10.161	-5.627	-2.302
ATOM	802	HH11	ARG	49	9.604	-5.605	-3.049
ATOM	803	HH12	ARG	49	11.060	-5.842	-2.371
ATOM	804	NH2	ARG	49	10.551	-5.321	-0.369
ATOM	805	HH21	ARG	49	10.269	-5.119	0.451
ATOM	806	HH22	ARG	49	11.429	-5.567	-0.497

ATOM	807	C	ARG	49	6.209	-8.836	-1.814
ATOM	808	O	ARG	49	7.358	-8.984	-1.453
ATOM	809	N	HIP	50	5.249	-9.677	-1.456
ATOM	810	H	HIP	50	4.329	-9.495	-1.780
ATOM	811	CA	HIP	50	5.491	-10.839	-0.602
ATOM	812	HA	HIP	50	6.023	-10.502	0.271
ATOM	813	CB	HIP	50	4.166	-11.424	-0.139
ATOM	814	HB2	HIP	50	3.574	-10.653	0.295
ATOM	815	HB3	HIP	50	3.625	-11.805	-0.974
ATOM	816	CG	HIP	50	4.318	-12.498	0.871
ATOM	817	ND1	HIP	50	4.261	-13.619	0.881
ATOM	818	HD1	HIP	50	4.133	-13.868	0.208
ATOM	819	CE1	HIP	50	4.471	-14.320	1.928
ATOM	820	HE1	HIP	50	4.509	-15.242	2.192
ATOM	821	NE2	HIP	50	4.659	-13.676	2.579
ATOM	822	HE2	HIP	50	4.858	-13.979	3.386
ATOM	823	CD2	HIP	50	4.569	-12.531	1.931
ATOM	824	HD2	HIP	50	4.695	-11.802	2.195
ATOM	825	C	HIP	50	6.388	-11.881	-1.263
ATOM	826	O	HIP	50	7.237	-12.433	-0.606
ATOM	827	N	GLN	51	6.271	-12.101	-2.559
ATOM	828	H	GLN	51	5.533	-11.652	-3.038
ATOM	829	CA	GLN	51	7.165	-12.973	-3.309
ATOM	830	HA	GLN	51	7.222	-13.916	-2.798
ATOM	831	CB	GLN	51	6.598	-13.218	-4.696
ATOM	832	HB2	GLN	51	5.912	-13.019	-4.832
ATOM	833	HB3	GLN	51	6.925	-12.879	-5.235
ATOM	834	CG	GLN	51	6.514	-14.201	-5.202
ATOM	835	HG2	GLN	51	6.904	-14.223	-5.159
ATOM	836	HG3	GLN	51	6.340	-14.524	-4.994
ATOM	837	CD	GLN	51	6.131	-14.727	-6.064
ATOM	838	OE1	GLN	51	6.049	-14.586	-6.471
ATOM	839	NE2	GLN	51	5.893	-15.348	-6.373
ATOM	840	HE21	GLN	51	5.651	-15.695	-6.928
ATOM	841	HE22	GLN	51	5.966	-15.478	-6.050
ATOM	842	C	GLN	51	8.584	-12.426	-3.382
ATOM	843	O	GLN	51	9.519	-13.156	-3.181
ATOM	844	N	GLN	52	8.755	-11.140	-3.599
ATOM	845	H	GLN	52	7.954	-10.595	-3.781
ATOM	846	CA	GLN	52	10.049	-10.485	-3.651
ATOM	847	HA	GLN	52	10.680	-11.017	-4.338
ATOM	848	CB	GLN	52	9.869	-9.074	-4.168
ATOM	849	HB2	GLN	52	9.215	-8.683	-3.872
ATOM	850	HB3	GLN	52	10.472	-8.551	-3.979
ATOM	851	CG	GLN	52	9.772	-8.871	-5.335
ATOM	852	HG2	GLN	52	10.398	-9.046	-5.672
ATOM	853	HG3	GLN	52	9.311	-9.395	-5.574
ATOM	854	CD	GLN	52	9.454	-7.729	-5.767
ATOM	855	OE1	GLN	52	9.358	-6.965	-5.254
ATOM	856	NE2	GLN	52	9.276	-7.565	-6.730
ATOM	857	HE21	GLN	52	9.082	-6.818	-7.010
ATOM	858	HE22	GLN	52	9.364	-8.180	-7.172
ATOM	859	C	GLN	52	10.762	-10.480	-2.310
ATOM	860	O	GLN	52	11.952	-10.644	-2.262
ATOM	861	N	GLU	53	10.050	-10.353	-1.216
ATOM	862	H	GLU	53	9.089	-10.165	-1.311
ATOM	863	CA	GLU	53	10.605	-10.427	0.121
ATOM	864	HA	GLU	53	11.508	-9.863	0.142
ATOM	865	CB	GLU	53	9.651	-9.799	1.109
ATOM	866	HB2	GLU	53	9.001	-9.734	0.980
ATOM	867	HB3	GLU	53	9.580	-10.072	1.679
ATOM	868	CG	GLU	53	9.682	-8.870	1.516
ATOM	869	HG2	GLU	53	10.232	-8.943	1.604
ATOM	870	HG3	GLU	53	9.738	-8.652	1.022
ATOM	871	CD	GLU	53	8.918	-8.130	2.470
ATOM	872	OE1	GLU	53	8.681	-7.792	2.857
ATOM	873	OE2	GLU	53	8.553	-7.861	2.858
ATOM	874	C	GLU	53	10.987	-11.833	0.529
ATOM	875	O	GLU	53	11.861	-12.010	1.312
ATOM	876	N	GLN	54	10.392	-12.840	-0.030
ATOM	877	H	GLN	54	9.663	-12.633	-0.636
ATOM	878	CA	GLN	54	10.781	-14.217	0.141
ATOM	879	HA	GLN	54	11.084	-14.359	1.143
ATOM	880	CB	GLN	54	9.610	-15.109	-0.119
ATOM	881	HB2	GLN	54	9.125	-14.861	-0.713
ATOM	882	HB3	GLN	54	9.834	-15.845	-0.350
ATOM	883	CG	GLN	54	8.790	-15.379	0.738
ATOM	884	HG2	GLN	54	9.231	-15.598	1.286
ATOM	885	HG3	GLN	54	8.528	-14.726	0.971
ATOM	886	CD	GLN	54	7.720	-16.249	0.552
ATOM	887	OE1	GLN	54	7.252	-16.408	0.172
ATOM	888	NE2	GLN	54	7.297	-16.854	0.803
ATOM	889	HE21	GLN	54	6.618	-17.437	0.661
ATOM	890	HE22	GLN	54	7.670	-16.746	1.118
ATOM	891	C	GLN	54	11.956	-14.602	-0.717
ATOM	892	O	GLN	54	12.772	-15.351	-0.319
ATOM	893	N	GLU	55	12.097	-14.054	-1.867
ATOM	894	H	GLU	55	11.385	-13.479	-2.165
ATOM	895	CA	GLU	55	13.231	-14.251	-2.725
ATOM	896	HA	GLU	55	13.417	-15.275	-2.810
ATOM	897	CB	GLU	55	12.933	-13.740	-4.073
ATOM	898	HB2	GLU	55	12.333	-13.581	-4.191
ATOM	899	HB3	GLU	55	13.205	-13.193	-4.285
ATOM	900	CG	GLU	55	13.076	-14.192	-4.995
ATOM	901	HG2	GLU	55	13.588	-14.324	-4.873
ATOM	902	HG3	GLU	55	12.835	-14.657	-4.837
ATOM	903	CD	GLU	55	12.853	-13.848	-6.294
ATOM	904	OE1	GLU	55	12.818	-13.616	-6.795
ATOM	905	OE2	GLU	55	12.714	-13.814	-6.832
ATOM	906	C	GLU	55	14.473	-13.644	-2.187
ATOM	907	O	GLU	55	15.532	-14.119	-2.430
ATOM	908	N	ALA	56	14.355	-12.645	-1.397
ATOM	909	H	ALA	56	13.469	-12.286	-1.259
ATOM	910	CA	ALA	56	15.432	-12.028	-0.727
ATOM	911	HA	ALA	56	16.179	-11.833	-1.404

ATOM	912	CB	ALA	56	14.969	-10.770	-0.200
ATOM	913	HB1	ALA	56	14.844	-10.451	-0.113
ATOM	914	HB2	ALA	56	14.832	-10.474	-0.033
ATOM	915	HB3	ALA	56	14.914	-10.464	-0.072
ATOM	916	C	ALA	56	16.044	-12.841	0.312
ATOM	917	O	ALA	56	17.112	-12.601	0.700
ATOM	918	N	GLU	57	15.403	-13.824	0.739
ATOM	919	H	GLU	57	14.524	-13.949	0.405
ATOM	920	CA	GLU	57	15.909	-14.757	1.628
ATOM	921	HA	GLU	57	16.673	-14.351	2.157
ATOM	922	CB	GLU	57	14.895	-15.102	2.532
ATOM	923	HB2	GLU	57	14.429	-15.145	2.384
ATOM	924	HB3	GLU	57	14.910	-15.538	2.774
ATOM	925	CG	GLU	57	14.482	-14.808	3.333
ATOM	926	HG2	GLU	57	14.548	-14.620	3.333
ATOM	927	HG3	GLU	57	14.370	-14.769	3.258
ATOM	928	CD	GLU	57	14.114	-14.823	4.243
ATOM	929	OE1	GLU	57	13.943	-14.871	4.599
ATOM	930	OE2	GLU	57	13.992	-14.779	4.619
ATOM	931	C	GLU	57	16.490	-15.906	1.010
ATOM	932	O	GLU	57	16.939	-16.736	1.608
ATOM	933	N	GLY	58	16.503	-15.961	-0.186
ATOM	934	H	GLY	58	16.118	-15.258	-0.626
ATOM	935	CA	GLY	58	17.077	-16.954	-0.899
ATOM	936	HA2	GLY	58	17.420	-16.632	-1.571
ATOM	937	HA3	GLY	58	17.722	-17.319	-0.463
ATOM	938	C	GLY	58	16.395	-17.943	-1.369
ATOM	939	O	GLY	58	16.892	-18.659	-1.773
ATOM	940	N	VAL	59	15.264	-18.004	-1.315
ATOM	941	H	VAL	59	14.919	-17.379	-0.988
ATOM	942	CA	VAL	59	14.483	-18.911	-1.726
ATOM	943	HA	VAL	59	14.991	-19.528	-1.778
ATOM	944	CB	VAL	59	13.630	-19.186	-1.034
ATOM	945	HB	VAL	59	13.239	-19.116	-1.356
ATOM	946	CG1	VAL	59	13.498	-19.885	-0.709
ATOM	947	HG11	VAL	59	13.457	-20.046	-0.639
ATOM	948	HG12	VAL	59	13.485	-20.046	-0.659
ATOM	949	HG13	VAL	59	13.445	-20.077	-0.591
ATOM	950	CG2	VAL	59	13.409	-18.898	-0.205
ATOM	951	HG21	VAL	59	13.445	-18.815	0.018
ATOM	952	HG22	VAL	59	13.317	-18.785	-0.035
ATOM	953	HG23	VAL	59	13.291	-18.888	0.011
ATOM	954	C	VAL	59	13.863	-18.800	-2.790
ATOM	955	O	VAL	59	13.520	-17.996	-3.036
ATOM	956	N	ALA	60	13.707	-19.609	-3.422
ATOM	957	H	ALA	60	14.011	-20.240	-3.177
ATOM	958	CA	ALA	60	13.085	-19.646	-4.448
ATOM	959	HA	ALA	60	13.180	-18.861	-4.731
ATOM	960	CB	ALA	60	13.681	-20.360	-5.141
ATOM	961	HB1	ALA	60	13.859	-20.493	-5.290
ATOM	962	HB2	ALA	60	13.811	-20.577	-5.304
ATOM	963	HB3	ALA	60	13.805	-20.521	-5.340
ATOM	964	C	ALA	60	11.752	-19.997	-4.467
ATOM	965	O	ALA	60	11.387	-20.731	-4.061
ATOM	966	N	ALA	61	11.028	-19.476	-4.949
ATOM	967	H	ALA	61	11.403	-18.901	-5.263
ATOM	968	CA	ALA	61	9.725	-19.648	-5.066
ATOM	969	HA	ALA	61	9.609	-19.193	-5.303
ATOM	970	CB	ALA	61	9.454	-20.207	-5.580
ATOM	971	HB1	ALA	61	9.449	-20.383	-5.721
ATOM	972	HB2	ALA	61	9.390	-20.286	-5.730
ATOM	973	HB3	ALA	61	9.317	-20.349	-5.665
ATOM	974	C	ALA	61	8.794	-19.783	-4.432
ATOM	975	O	ALA	61	8.150	-20.243	-4.505
ATOM	976	N	PRO	62	8.710	-19.400	-3.795
ATOM	977	CD	PRO	62	9.393	-18.833	-3.660
ATOM	978	HD2	PRO	62	9.203	-18.413	-4.004
ATOM	979	HD3	PRO	62	10.362	-19.034	-3.722
ATOM	980	CG	PRO	62	8.973	-18.560	-2.899
ATOM	981	HG2	PRO	62	8.407	-18.142	-2.899
ATOM	982	HG3	PRO	62	9.682	-18.448	-2.656
ATOM	983	CB	PRO	62	8.307	-19.097	-2.520
ATOM	984	HB2	PRO	62	8.867	-19.385	-2.287
ATOM	985	HB3	PRO	62	7.594	-18.887	-2.121
ATOM	986	CA	PRO	62	7.924	-19.521	-3.112
ATOM	987	HA	PRO	62	8.133	-20.082	-3.025
ATOM	988	C	PRO	62	6.532	-19.297	-3.086
ATOM	989	O	PRO	62	6.147	-18.633	-3.254
ATOM	990	N	ALA	63	5.771	-19.842	-2.843
ATOM	991	H	ALA	63	6.144	-20.368	-2.712
ATOM	992	CA	ALA	63	4.429	-19.726	-2.701
ATOM	993	HA	ALA	63	4.192	-18.902	-2.957
ATOM	994	CB	ALA	63	3.935	-20.543	-3.513
ATOM	995	HB1	ALA	63	3.795	-20.749	-3.689
ATOM	996	HB2	ALA	63	3.809	-20.715	-3.728
ATOM	997	HB3	ALA	63	3.836	-20.753	-3.715
ATOM	998	C	ALA	63	3.838	-19.883	-1.426
ATOM	999	O	ALA	63	4.260	-20.440	-0.815
ATOM	1000	N	ASP	64	2.852	-19.407	-1.021
ATOM	1001	H	ASP	64	2.548	-18.966	-1.565
ATOM	1002	CA	ASP	64	2.160	-19.531	0.165
ATOM	1003	HA	ASP	64	2.777	-20.013	0.784
ATOM	1004	CB	ASP	64	1.889	-18.250	0.729
ATOM	1005	HB2	ASP	64	2.734	-17.771	0.756
ATOM	1006	HB3	ASP	64	1.274	-17.759	0.174
ATOM	1007	CG	ASP	64	1.334	-18.270	2.007
ATOM	1008	OD1	ASP	64	1.045	-18.267	2.485
ATOM	1009	OD2	ASP	64	1.196	-18.302	2.542
ATOM	1010	C	ASP	64	0.929	-20.254	0.019
ATOM	1011	O	ASP	64	0.237	-19.989	-0.809
ATOM	1012	N	PRO	65	0.613	-21.146	0.797
ATOM	1013	CD	PRO	65	1.384	-21.612	1.753
ATOM	1014	HD2	PRO	65	1.423	-20.986	2.478
ATOM	1015	HD3	PRO	65	2.308	-21.832	1.439
ATOM	1016	CG	PRO	65	0.773	-22.736	2.168

ATOM	1017	HG2	PRO	65	0.595	-22.705	2.968
ATOM	1018	HG3	PRO	65	1.287	-23.369	1.990
ATOM	1019	CB	PRO	65	-0.368	-22.919	1.600
ATOM	1020	HB2	PRO	65	-0.358	-23.700	1.216
ATOM	1021	HB3	PRO	65	-1.020	-22.907	2.230
ATOM	1022	CA	PRO	65	-0.501	-21.924	0.666
ATOM	1023	HA	PRO	65	-0.463	-22.357	-0.229
ATOM	1024	C	PRO	65	-1.776	-21.269	0.821
ATOM	1025	O	PRO	65	-2.681	-21.782	0.450
ATOM	1026	N	GLU	66	-1.875	-20.154	1.351
ATOM	1027	H	GLU	66	-1.107	-19.777	1.642
ATOM	1028	CA	GLU	66	-3.037	-19.443	1.551
ATOM	1029	HA	GLU	66	-3.815	-20.033	1.241
ATOM	1030	CB	GLU	66	-3.220	-19.159	2.950
ATOM	1031	HB2	GLU	66	-2.570	-19.080	3.357
ATOM	1032	HB3	GLU	66	-3.578	-18.486	3.096
ATOM	1033	CG	GLU	66	-3.803	-19.877	3.622
ATOM	1034	HG2	GLU	66	-4.061	-20.045	3.464
ATOM	1035	HG3	GLU	66	-3.601	-20.139	3.630
ATOM	1036	CD	GLU	66	-4.312	-20.009	4.505
ATOM	1037	OE1	GLU	66	-4.439	-20.081	4.884
ATOM	1038	OE2	GLU	66	-4.602	-20.050	4.836
ATOM	1039	C	GLU	66	-3.126	-18.226	0.772
ATOM	1040	O	GLU	66	-4.136	-17.809	0.513
ATOM	1041	N	MET	67	-2.105	-17.684	0.322
ATOM	1042	H	MET	67	-1.303	-18.050	0.577
ATOM	1043	CA	MET	67	-2.105	-16.568	-0.498
ATOM	1044	HA	MET	67	-2.790	-15.918	-0.139
ATOM	1045	CB	MET	67	-0.829	-15.880	-0.436
ATOM	1046	HB2	MET	67	-0.351	-16.155	0.103
ATOM	1047	HB3	MET	67	-0.403	-15.929	-1.082
ATOM	1048	CG	MET	67	-0.760	-14.737	-0.219
ATOM	1049	HG2	MET	67	-0.991	-14.587	-0.518
ATOM	1050	HG3	MET	67	-0.996	-14.724	0.103
ATOM	1051	SD	MET	67	0.060	-13.616	-0.007
ATOM	1052	CE	MET	67	0.124	-13.008	1.071
ATOM	1053	HE1	MET	67	0.144	-12.885	1.296
ATOM	1054	HE2	MET	67	0.133	-12.876	1.291
ATOM	1055	HE3	MET	67	0.133	-12.889	1.279
ATOM	1056	C	MET	67	-2.510	-16.890	-1.861
ATOM	1057	O	MET	67	-2.819	-16.070	-2.602
ATOM	1058	N	VAL	68	-2.580	-18.089	-2.189
ATOM	1059	H	VAL	68	-2.286	-18.708	-1.547
ATOM	1060	CA	VAL	68	-3.079	-18.568	-3.407
ATOM	1061	HA	VAL	68	-2.682	-18.003	-4.162
ATOM	1062	CB	VAL	68	-2.661	-19.928	-3.600
ATOM	1063	HB	VAL	68	-2.880	-20.191	-4.163
ATOM	1064	CG1	VAL	68	-1.712	-20.210	-3.689
ATOM	1065	HG11	VAL	68	-1.481	-20.288	-3.700
ATOM	1066	HG12	VAL	68	-1.511	-20.242	-3.745
ATOM	1067	HG13	VAL	68	-1.453	-20.318	-3.701
ATOM	1068	CG2	VAL	68	-2.852	-20.703	-3.001
ATOM	1069	HG21	VAL	68	-2.921	-20.931	-2.859
ATOM	1070	HG22	VAL	68	-2.874	-20.896	-2.878
ATOM	1071	HG23	VAL	68	-2.900	-20.873	-2.834
ATOM	1072	C	VAL	68	-4.513	-18.444	-3.580
ATOM	1073	O	VAL	68	-4.990	-18.539	-4.630
ATOM	1074	N	THR	69	-5.208	-18.193	-2.575
ATOM	1075	H	THR	69	-4.766	-18.151	-1.738
ATOM	1076	CA	THR	69	-6.581	-17.958	-2.602
ATOM	1077	HA	THR	69	-6.985	-18.483	-3.360
ATOM	1078	CB	THR	69	-7.177	-18.434	-1.375
ATOM	1079	HB	THR	69	-8.070	-18.167	-1.358
ATOM	1080	CG2	THR	69	-7.149	-19.747	-1.171
ATOM	1081	HG21	THR	69	-7.148	-20.076	-1.127
ATOM	1082	HG22	THR	69	-7.144	-20.059	-1.120
ATOM	1083	HG23	THR	69	-7.160	-20.068	-1.119
ATOM	1084	OG1	THR	69	-6.656	-18.012	-0.392
ATOM	1085	HG1	THR	69	-6.474	-18.250	0.013
ATOM	1086	C	THR	69	-6.977	-16.570	-2.885
ATOM	1087	O	THR	69	-8.072	-16.300	-3.095
ATOM	1088	N	LEU	70	-6.108	-15.682	-2.926
ATOM	1089	H	LEU	70	-5.233	-15.965	-2.750
ATOM	1090	CA	LEU	70	-6.331	-14.329	-3.282
ATOM	1091	HA	LEU	70	-7.179	-14.025	-2.790
ATOM	1092	CB	LEU	70	-5.199	-13.530	-2.779
ATOM	1093	HB2	LEU	70	-5.010	-13.697	-1.943
ATOM	1094	HB3	LEU	70	-4.518	-13.753	-3.209
ATOM	1095	CG	LEU	70	-5.174	-12.234	-2.797
ATOM	1096	HG	LEU	70	-5.450	-12.034	-3.585
ATOM	1097	CD1	LEU	70	-5.808	-11.625	-1.922
ATOM	1098	HD11	LEU	70	-5.940	-11.479	-1.686
ATOM	1099	HD12	LEU	70	-5.969	-11.453	-1.728
ATOM	1100	HD13	LEU	70	-5.984	-11.490	-1.712
ATOM	1101	CD2	LEU	70	-4.094	-11.761	-2.604
ATOM	1102	HD21	LEU	70	-3.856	-11.608	-2.508
ATOM	1103	HD22	LEU	70	-3.801	-11.702	-2.545
ATOM	1104	HD23	LEU	70	-3.833	-11.626	-2.635
ATOM	1105	C	LEU	70	-6.523	-14.169	-4.765
ATOM	1106	O	LEU	70	-5.706	-14.634	-5.490
ATOM	1107	N	PRO	71	-7.553	-13.530	-5.247
ATOM	1108	CD	PRO	71	-8.667	-13.065	-4.528
ATOM	1109	HD2	PRO	71	-8.430	-12.243	-3.976
ATOM	1110	HD3	PRO	71	-9.056	-13.797	-3.916
ATOM	1111	CG	PRO	71	-9.652	-12.697	-5.511
ATOM	1112	HG2	PRO	71	-9.902	-11.834	-5.392
ATOM	1113	HG3	PRO	71	-10.379	-13.245	-5.455
ATOM	1114	CB	PRO	71	-9.124	-12.815	-6.771
ATOM	1115	HB2	PRO	71	-9.685	-13.398	-7.249
ATOM	1116	HB3	PRO	71	-9.121	-11.969	-7.186
ATOM	1117	CA	PRO	71	-7.759	-13.344	-6.642
ATOM	1118	HA	PRO	71	-7.726	-14.278	-7.106
ATOM	1119	C	PRO	71	-6.741	-12.448	-7.285
ATOM	1120	O	PRO	71	-6.426	-11.423	-6.773
ATOM	1121	N	LEU	72	-6.245	-12.831	-8.418

ATOM	1122	H	LEU	72	-6.559	-13.671	-8.770
ATOM	1123	CA	LEU	72	-5.273	-12.139	-9.194
ATOM	1124	HA	LEU	72	-5.374	-11.119	-9.028
ATOM	1125	CB	LEU	72	-3.944	-12.553	-8.763
ATOM	1126	HB2	LEU	72	-3.910	-12.797	-8.445
ATOM	1127	HB3	LEU	72	-3.690	-12.798	-8.991
ATOM	1128	CG	LEU	72	-2.975	-12.336	-8.454
ATOM	1129	HG	LEU	72	-3.215	-12.466	-8.672
ATOM	1130	CD1	LEU	72	-2.223	-12.063	-8.200
ATOM	1131	HD11	LEU	72	-2.042	-11.987	-8.199
ATOM	1132	HD12	LEU	72	-2.026	-12.032	-8.121
ATOM	1133	HD13	LEU	72	-2.048	-11.974	-8.092
ATOM	1134	CD2	LEU	72	-2.353	-12.234	-8.082
ATOM	1135	HD21	LEU	72	-2.181	-12.147	-8.013
ATOM	1136	HD22	LEU	72	-2.180	-12.246	-8.015
ATOM	1137	HD23	LEU	72	-2.241	-12.240	-7.946
ATOM	1138	C	LEU	72	-5.452	-12.384	-10.653
ATOM	1139	O	LEU	72	-5.841	-13.413	-11.025
ATOM	1140	N	GLN	73	-5.126	-11.462	-11.484
ATOM	1141	H	GLN	73	-4.866	-10.634	-11.107
ATOM	1142	CA	GLN	73	-5.105	-11.570	-12.903
ATOM	1143	HA	GLN	73	-5.356	-12.521	-13.156
ATOM	1144	CB	GLN	73	-6.099	-10.693	-13.489
ATOM	1145	HB2	GLN	73	-6.184	-10.114	-13.139
ATOM	1146	HB3	GLN	73	-5.968	-10.462	-14.157
ATOM	1147	CG	GLN	73	-7.177	-10.903	-13.669
ATOM	1148	HG2	GLN	73	-7.351	-11.380	-13.672
ATOM	1149	HG3	GLN	73	-7.406	-10.766	-13.334
ATOM	1150	CD	GLN	73	-7.743	-10.647	-14.302
ATOM	1151	OE1	GLN	73	-7.628	-10.681	-14.855
ATOM	1152	NE2	GLN	73	-8.373	-10.380	-14.253
ATOM	1153	HE21	GLN	73	-8.477	-10.342	-13.803
ATOM	1154	HE22	GLN	73	-8.745	-10.217	-14.671
ATOM	1155	C	GLN	73	-3.773	-11.295	-13.461
ATOM	1156	O	GLN	73	-3.449	-10.237	-13.741
ATOM	1157	N	PRO	74	-2.975	-12.211	-13.622
ATOM	1158	CD	PRO	74	-3.220	-13.509	-13.341
ATOM	1159	HD2	PRO	74	-3.829	-13.876	-13.972
ATOM	1160	HD3	PRO	74	-3.583	-13.677	-12.405
ATOM	1161	CG	PRO	74	-2.021	-14.113	-13.492
ATOM	1162	HG2	PRO	74	-2.033	-14.665	-14.098
ATOM	1163	HG3	PRO	74	-1.829	-14.482	-12.759
ATOM	1164	CB	PRO	74	-1.102	-13.270	-13.845
ATOM	1165	HB2	PRO	74	-0.532	-13.306	-13.222
ATOM	1166	HB3	PRO	74	-0.716	-13.519	-14.604
ATOM	1167	CA	PRO	74	-1.660	-12.010	-13.967
ATOM	1168	HA	PRO	74	-1.271	-11.430	-13.281
ATOM	1169	C	PRO	74	-1.340	-11.409	-15.281
ATOM	1170	O	PRO	74	-0.358	-10.882	-15.488
ATOM	1171	N	SER	75	-2.155	-11.459	-16.164
ATOM	1172	H	SER	75	-2.938	-11.919	-15.947
ATOM	1173	CA	SER	75	-1.989	-10.896	-17.448
ATOM	1174	HA	SER	75	-1.000	-10.757	-17.637
ATOM	1175	CB	SER	75	-2.467	-11.815	-18.413
ATOM	1176	HB2	SER	75	-3.018	-11.780	-18.665
ATOM	1177	HB3	SER	75	-2.207	-11.885	-18.965
ATOM	1178	OG	SER	75	-2.532	-12.620	-18.294
ATOM	1179	HG	SER	75	-2.641	-12.989	-18.545
ATOM	1180	C	SER	75	-2.590	-9.576	-17.647
ATOM	1181	O	SER	75	-2.543	-9.042	-18.624
ATOM	1182	N	SER	76	-3.149	-9.031	-16.737
ATOM	1183	H	SER	76	-3.140	-9.505	-15.959
ATOM	1184	CA	SER	76	-3.738	-7.750	-16.796
ATOM	1185	HA	SER	76	-4.162	-7.617	-17.703
ATOM	1186	CB	SER	76	-4.772	-7.690	-15.816
ATOM	1187	HB2	SER	76	-5.332	-7.501	-15.802
ATOM	1188	HB3	SER	76	-4.988	-8.085	-15.609
ATOM	1189	OG	SER	76	-4.764	-7.360	-15.200
ATOM	1190	HG	SER	76	-5.046	-7.727	-14.946
ATOM	1191	C	SER	76	-2.804	-6.635	-16.644
ATOM	1192	O	SER	76	-1.824	-6.778	-16.014
ATOM	1193	N	THR	77	-3.116	-5.492	-17.181
ATOM	1194	H	THR	77	-3.930	-5.428	-17.681
ATOM	1195	CA	THR	77	-2.326	-4.299	-17.060
ATOM	1196	HA	THR	77	-1.355	-4.514	-17.406
ATOM	1197	CB	THR	77	-2.876	-3.203	-17.907
ATOM	1198	HB	THR	77	-2.942	-2.594	-17.609
ATOM	1199	CG2	THR	77	-2.457	-2.865	-18.785
ATOM	1200	HG21	THR	77	-2.364	-2.806	-19.000
ATOM	1201	HG22	THR	77	-2.328	-2.785	-18.985
ATOM	1202	HG23	THR	77	-2.367	-2.743	-19.012
ATOM	1203	OG1	THR	77	-3.717	-3.241	-18.306
ATOM	1204	HG1	THR	77	-4.011	-2.954	-18.679
ATOM	1205	C	THR	77	-2.187	-3.822	-15.639
ATOM	1206	O	THR	77	-1.136	-3.387	-15.255
ATOM	1207	N	MET	78	-3.202	-3.965	-14.823
ATOM	1208	H	MET	78	-4.034	-4.331	-15.191
ATOM	1209	CA	MET	78	-3.164	-3.604	-13.419
ATOM	1210	HA	MET	78	-2.712	-2.640	-13.330
ATOM	1211	CB	MET	78	-4.567	-3.508	-12.877
ATOM	1212	HB2	MET	78	-5.041	-4.413	-12.956
ATOM	1213	HB3	MET	78	-4.519	-3.270	-11.878
ATOM	1214	CG	MET	78	-5.409	-2.510	-13.534
ATOM	1215	HG2	MET	78	-5.684	-2.772	-14.178
ATOM	1216	HG3	MET	78	-6.084	-2.280	-13.149
ATOM	1217	SD	MET	78	-4.990	-1.272	-13.904
ATOM	1218	CE	MET	78	-5.803	-0.899	-14.884
ATOM	1219	HE1	MET	78	-5.981	-0.818	-15.075
ATOM	1220	HE2	MET	78	-5.959	-0.816	-15.086
ATOM	1221	HE3	MET	78	-5.964	-0.839	-15.087
ATOM	1222	C	MET	78	-2.308	-4.543	-12.585
ATOM	1223	O	MET	78	-1.663	-4.115	-11.649
ATOM	1224	N	GLY	79	-2.213	-5.797	-12.969
ATOM	1225	H	GLY	79	-2.776	-6.097	-13.725
ATOM	1226	CA	GLY	79	-1.260	-6.732	-12.414

ATOM	1227	HA2	GLY	79	-1.404	-6.808	-11.364
ATOM	1228	HA3	GLY	79	-1.433	-7.686	-12.851
ATOM	1229	C	GLY	79	0.178	-6.344	-12.666
ATOM	1230	O	GLY	79	0.989	-6.392	-11.769
ATOM	1231	N	GLN	80	0.484	-5.865	-13.856
ATOM	1232	H	GLN	80	-0.223	-5.862	-14.545
ATOM	1233	CA	GLN	80	1.796	-5.358	-14.215
ATOM	1234	HA	GLN	80	2.527	-6.079	-13.917
ATOM	1235	CB	GLN	80	1.885	-5.193	-15.716
ATOM	1236	HB2	GLN	80	1.266	-5.034	-16.097
ATOM	1237	HB3	GLN	80	2.310	-4.647	-15.959
ATOM	1238	CG	GLN	80	2.247	-5.961	-16.405
ATOM	1239	HG2	GLN	80	2.467	-6.203	-16.376
ATOM	1240	HG3	GLN	80	2.006	-6.114	-16.395
ATOM	1241	CD	GLN	80	2.643	-6.200	-17.177
ATOM	1242	OE1	GLN	80	2.892	-5.989	-17.376
ATOM	1243	NE2	GLN	80	2.719	-6.647	-17.646
ATOM	1244	HE21	GLN	80	2.975	-6.804	-18.154
ATOM	1245	HE22	GLN	80	2.523	-6.833	-17.498
ATOM	1246	C	GLN	80	2.152	-4.070	-13.489
ATOM	1247	O	GLN	80	3.275	-3.920	-13.065
ATOM	1248	N	VAL	81	1.205	-3.175	-13.262
ATOM	1249	H	VAL	81	0.319	-3.327	-13.670
ATOM	1250	CA	VAL	81	1.399	-1.997	-12.420
ATOM	1251	HA	VAL	81	2.273	-1.480	-12.761
ATOM	1252	CB	VAL	81	0.228	-1.034	-12.529
ATOM	1253	HB	VAL	81	-0.597	-1.526	-12.362
ATOM	1254	CG1	VAL	81	0.237	0.054	-11.631
ATOM	1255	HG11	VAL	81	0.236	0.334	-11.423
ATOM	1256	HG12	VAL	81	0.215	0.309	-11.409
ATOM	1257	HG13	VAL	81	0.245	0.320	-11.401
ATOM	1258	CG2	VAL	81	0.100	-0.431	-13.792
ATOM	1259	HG21	VAL	81	0.060	-0.252	-14.109
ATOM	1260	HG22	VAL	81	0.082	-0.278	-14.106
ATOM	1261	HG23	VAL	81	0.050	-0.320	-14.092
ATOM	1262	C	VAL	81	1.666	-2.394	-10.977
ATOM	1263	O	VAL	81	2.586	-1.882	-10.376
ATOM	1264	N	GLY	82	0.944	-3.362	-10.436
ATOM	1265	H	GLY	82	0.191	-3.732	-10.965
ATOM	1266	CA	GLY	82	1.193	-3.913	-9.113
ATOM	1267	HA2	GLY	82	1.083	-3.147	-8.379
ATOM	1268	HA3	GLY	82	0.467	-4.670	-8.920
ATOM	1269	C	GLY	82	2.572	-4.529	-8.952
ATOM	1270	O	GLY	82	3.215	-4.316	-7.948
ATOM	1271	N	ARG	83	3.072	-5.220	-9.965
ATOM	1272	H	ARG	83	2.476	-5.380	-10.738
ATOM	1273	CA	ARG	83	4.429	-5.760	-10.008
ATOM	1274	HA	ARG	83	4.608	-6.303	-9.095
ATOM	1275	CB	ARG	83	4.545	-6.728	-11.176
ATOM	1276	HB2	ARG	83	3.773	-7.234	-11.261
ATOM	1277	HB3	ARG	83	4.643	-6.291	-11.995
ATOM	1278	CG	ARG	83	5.549	-7.624	-11.130
ATOM	1279	HG2	ARG	83	6.282	-7.218	-11.069
ATOM	1280	HG3	ARG	83	5.460	-8.026	-10.398
ATOM	1281	CD	ARG	83	5.683	-8.541	-12.164
ATOM	1282	HD2	ARG	83	5.557	-8.795	-12.234
ATOM	1283	HD3	ARG	83	5.650	-8.598	-12.519
ATOM	1284	NE	ARG	83	6.025	-9.021	-12.593
ATOM	1285	HE	ARG	83	6.113	-8.976	-12.454
ATOM	1286	CZ	ARG	83	6.233	-9.524	-13.156
ATOM	1287	NH1	ARG	83	6.519	-9.907	-13.476
ATOM	1288	HH11	ARG	83	6.582	-9.824	-13.297
ATOM	1289	HH12	ARG	83	6.676	-10.286	-13.904
ATOM	1290	NH2	ARG	83	6.165	-9.662	-13.419
ATOM	1291	HH21	ARG	83	5.962	-9.391	-13.212
ATOM	1292	HH22	ARG	83	6.331	-10.054	-13.852
ATOM	1293	C	ARG	83	5.487	-4.675	-10.072
ATOM	1294	O	ARG	83	6.461	-4.755	-9.359
ATOM	1295	N	GLN	84	5.278	-3.641	-10.861
ATOM	1296	H	GLN	84	4.466	-3.651	-11.426
ATOM	1297	CA	GLN	84	6.185	-2.514	-10.978
ATOM	1298	HA	GLN	84	7.177	-2.891	-11.122
ATOM	1299	CB	GLN	84	5.816	-1.693	-12.197
ATOM	1300	HB2	GLN	84	5.209	-1.830	-12.564
ATOM	1301	HB3	GLN	84	5.704	-0.999	-12.123
ATOM	1302	CG	GLN	84	6.421	-1.609	-13.040
ATOM	1303	HG2	GLN	84	6.720	-1.492	-13.080
ATOM	1304	HG3	GLN	84	6.426	-1.888	-12.984
ATOM	1305	CD	GLN	84	6.622	-1.296	-13.930
ATOM	1306	OE1	GLN	84	6.417	-1.293	-14.191
ATOM	1307	NE2	GLN	84	7.030	-1.019	-14.434
ATOM	1308	HE21	GLN	84	7.154	-0.816	-15.012
ATOM	1309	HE22	GLN	84	7.209	-1.011	-14.242
ATOM	1310	C	GLN	84	6.228	-1.669	-9.718
ATOM	1311	O	GLN	84	7.275	-1.231	-9.333
ATOM	1312	N	LEU	85	5.120	-1.497	-9.028
ATOM	1313	H	LEU	85	4.281	-1.831	-9.420
ATOM	1314	CA	LEU	85	5.055	-0.841	-7.737
ATOM	1315	HA	LEU	85	5.597	0.079	-7.803
ATOM	1316	CB	LEU	85	3.602	-0.532	-7.420
ATOM	1317	HB2	LEU	85	3.098	-0.744	-7.934
ATOM	1318	HB3	LEU	85	3.333	-0.877	-6.823
ATOM	1319	CG	LEU	85	3.138	0.497	-7.212
ATOM	1320	HG	LEU	85	3.361	0.236	-7.242
ATOM	1321	CD1	LEU	85	2.762	1.223	-7.158
ATOM	1322	HD11	LEU	85	2.665	1.379	-7.118
ATOM	1323	HD12	LEU	85	2.701	1.393	-7.117
ATOM	1324	HD13	LEU	85	2.650	1.425	-7.195
ATOM	1325	CD2	LEU	85	2.675	1.181	-6.996
ATOM	1326	HD21	LEU	85	2.541	1.307	-6.902
ATOM	1327	HD22	LEU	85	2.590	1.379	-6.912
ATOM	1328	HD23	LEU	85	2.555	1.355	-7.016
ATOM	1329	C	LEU	85	5.721	-1.653	-6.632
ATOM	1330	O	LEU	85	6.297	-1.096	-5.730
ATOM	1331	N	ALA	86	5.700	-2.962	-6.717

ATOM	1332	H	ALA	86	5.171	-3.367	-7.442
ATOM	1333	CA	ALA	86	6.382	-3.835	-5.790
ATOM	1334	HA	ALA	86	6.177	-3.506	-4.793
ATOM	1335	CB	ALA	86	5.809	-5.222	-5.933
ATOM	1336	HB1	ALA	86	5.660	-5.563	-5.971
ATOM	1337	HB2	ALA	86	5.683	-5.564	-5.967
ATOM	1338	HB3	ALA	86	5.673	-5.555	-5.949
ATOM	1339	C	ALA	86	7.894	-3.815	-5.943
ATOM	1340	O	ALA	86	8.598	-3.843	-4.967
ATOM	1341	N	ILE	87	8.408	-3.712	-7.138
ATOM	1342	H	ILE	87	7.783	-3.706	-7.896
ATOM	1343	CA	ILE	87	9.830	-3.738	-7.395
ATOM	1344	HA	ILE	87	10.225	-4.504	-6.807
ATOM	1345	CB	ILE	87	10.101	-4.080	-8.830
ATOM	1346	HB	ILE	87	9.460	-4.305	-9.129
ATOM	1347	CG2	ILE	87	10.479	-3.336	-9.613
ATOM	1348	HG21	ILE	87	10.544	-3.137	-9.760
ATOM	1349	HG22	ILE	87	10.617	-3.150	-9.828
ATOM	1350	HG23	ILE	87	10.547	-3.178	-9.843
ATOM	1351	CG1	ILE	87	10.819	-4.917	-9.135
ATOM	1352	HG12	ILE	87	11.123	-5.071	-9.404
ATOM	1353	HG13	ILE	87	10.897	-4.835	-8.866
ATOM	1354	CD1	ILE	87	11.028	-5.695	-9.466
ATOM	1355	HD11	ILE	87	11.085	-5.876	-9.535
ATOM	1356	HD12	ILE	87	11.072	-5.886	-9.546
ATOM	1357	HD13	ILE	87	11.089	-5.900	-9.559
ATOM	1358	C	ILE	87	10.545	-2.508	-6.943
ATOM	1359	O	ILE	87	11.643	-2.590	-6.497
ATOM	1360	N	ILE	88	9.919	-1.378	-6.964
ATOM	1361	H	ILE	88	9.033	-1.358	-7.362
ATOM	1362	CA	ILE	88	10.464	-0.170	-6.417
ATOM	1363	HA	ILE	88	11.490	-0.170	-6.638
ATOM	1364	CB	ILE	88	9.890	1.049	-7.061
ATOM	1365	HB	ILE	88	10.315	1.777	-6.697
ATOM	1366	CG2	ILE	88	10.148	1.090	-8.348
ATOM	1367	HG21	ILE	88	10.264	1.096	-8.642
ATOM	1368	HG22	ILE	88	10.194	1.154	-8.665
ATOM	1369	HG23	ILE	88	10.190	1.066	-8.682
ATOM	1370	CG1	ILE	88	8.566	1.306	-6.907
ATOM	1371	HG12	ILE	88	8.094	0.743	-7.363
ATOM	1372	HG13	ILE	88	8.375	1.202	-6.078
ATOM	1373	CD1	ILE	88	8.093	2.460	-7.229
ATOM	1374	HD11	ILE	88	7.983	2.735	-7.298
ATOM	1375	HD12	ILE	88	7.971	2.731	-7.314
ATOM	1376	HD13	ILE	88	7.965	2.749	-7.299
ATOM	1377	C	ILE	88	10.393	-0.106	-4.923
ATOM	1378	O	ILE	88	11.031	0.702	-4.333
ATOM	1379	N	GLY	89	9.670	-0.987	-4.300
ATOM	1380	H	GLY	89	9.161	-1.610	-4.837
ATOM	1381	CA	GLY	89	9.594	-1.146	-2.893
ATOM	1382	HA2	GLY	89	9.351	-0.243	-2.478
ATOM	1383	HA3	GLY	89	8.839	-1.814	-2.682
ATOM	1384	C	GLY	89	10.818	-1.652	-2.227
ATOM	1385	O	GLY	89	10.972	-1.481	-1.082
ATOM	1386	N	ASP	90	11.713	-2.227	-2.929
ATOM	1387	H	ASP	90	11.525	-2.360	-3.857
ATOM	1388	CA	ASP	90	12.964	-2.641	-2.428
ATOM	1389	HA	ASP	90	12.811	-3.174	-1.553
ATOM	1390	CB	ASP	90	13.570	-3.529	-3.399
ATOM	1391	HB2	ASP	90	12.911	-4.248	-3.653
ATOM	1392	HB3	ASP	90	13.792	-3.030	-4.241
ATOM	1393	CG	ASP	90	14.748	-4.137	-2.902
ATOM	1394	OD1	ASP	90	15.104	-4.481	-2.615
ATOM	1395	OD2	ASP	90	15.323	-4.291	-2.803
ATOM	1396	C	ASP	90	13.870	-1.525	-2.099
ATOM	1397	O	ASP	90	14.616	-1.630	-1.241
ATOM	1398	N	ASP	91	13.770	-0.432	-2.726
ATOM	1399	H	ASP	91	13.123	-0.399	-3.405
ATOM	1400	CA	ASP	91	14.548	0.720	-2.494
ATOM	1401	HA	ASP	91	15.532	0.450	-2.439
ATOM	1402	CB	ASP	91	14.404	1.618	-3.628
ATOM	1403	HB2	ASP	91	14.559	1.096	-4.489
ATOM	1404	HB3	ASP	91	13.453	1.963	-3.658
ATOM	1405	CG	ASP	91	15.330	2.740	-3.584
ATOM	1406	OD1	ASP	91	15.902	3.063	-3.639
ATOM	1407	OD2	ASP	91	15.498	3.312	-3.514
ATOM	1408	C	ASP	91	14.234	1.385	-1.237
ATOM	1409	O	ASP	91	15.025	2.008	-0.674
ATOM	1410	N	ILE	92	13.100	1.216	-0.763
ATOM	1411	H	ILE	92	12.504	0.696	-1.280
ATOM	1412	CA	ILE	92	12.674	1.715	0.470
ATOM	1413	HA	ILE	92	13.361	2.407	0.766
ATOM	1414	CB	ILE	92	11.412	2.394	0.341
ATOM	1415	HB	ILE	92	11.171	2.697	1.179
ATOM	1416	CG2	ILE	92	11.574	3.434	-0.420
ATOM	1417	HG21	ILE	92	11.639	3.675	-0.583
ATOM	1418	HG22	ILE	92	11.586	3.684	-0.642
ATOM	1419	HG23	ILE	92	11.615	3.718	-0.586
ATOM	1420	CG1	ILE	92	10.325	1.693	-0.090
ATOM	1421	HG12	ILE	92	10.449	1.469	-0.924
ATOM	1422	HG13	ILE	92	10.282	0.982	0.374
ATOM	1423	CD1	ILE	92	9.105	2.206	-0.019
ATOM	1424	HD11	ILE	92	8.797	2.298	0.028
ATOM	1425	HD12	ILE	92	8.801	2.375	0.007
ATOM	1426	HD13	ILE	92	8.820	2.300	-0.044
ATOM	1427	C	ILE	92	12.652	0.743	1.557
ATOM	1428	O	ILE	92	12.352	1.049	2.605
ATOM	1429	N	ASN	93	12.991	-0.424	1.329
ATOM	1430	H	ASN	93	13.216	-0.616	0.450
ATOM	1431	CA	ASN	93	13.023	-1.444	2.272
ATOM	1432	HA	ASN	93	12.279	-1.295	2.920
ATOM	1433	CB	ASN	93	12.770	-2.665	1.602
ATOM	1434	HB2	ASN	93	12.002	-2.621	1.159
ATOM	1435	HB3	ASN	93	13.387	-2.833	1.011
ATOM	1436	CG	ASN	93	12.694	-3.733	2.309

ATOM	1437	OD1	ASN	93	12.612	-3.979	2.822
ATOM	1438	ND2	ASN	93	12.714	-4.401	2.356
ATOM	1439	HD21	ASN	93	12.670	-5.100	2.826
ATOM	1440	HD22	ASN	93	12.785	-4.215	1.939
ATOM	1441	C	ASN	93	14.232	-1.501	3.067
ATOM	1442	O	ASN	93	14.224	-1.864	4.115
ATOM	1443	N	ARG	94	15.267	-1.119	2.594
ATOM	1444	H	ARG	94	15.207	-0.832	1.731
ATOM	1445	CA	ARG	94	16.460	-1.053	3.281
ATOM	1446	HA	ARG	94	16.518	-1.853	3.891
ATOM	1447	CB	ARG	94	17.549	-1.100	2.364
ATOM	1448	HB2	ARG	94	17.574	-0.714	1.834
ATOM	1449	HB3	ARG	94	18.124	-0.929	2.597
ATOM	1450	CG	ARG	94	17.861	-1.890	1.855
ATOM	1451	HG2	ARG	94	17.843	-2.048	1.990
ATOM	1452	HG3	ARG	94	17.699	-2.021	1.841
ATOM	1453	CD	ARG	94	18.443	-2.297	1.169
ATOM	1454	HD2	ARG	94	18.712	-2.143	1.069
ATOM	1455	HD3	ARG	94	18.612	-2.489	1.266
ATOM	1456	NE	ARG	94	18.435	-2.640	0.513
ATOM	1457	HE	ARG	94	18.404	-2.504	0.421
ATOM	1458	CZ	ARG	94	18.456	-3.113	0.020
ATOM	1459	NH1	ARG	94	18.499	-3.354	0.044
ATOM	1460	HH11	ARG	94	18.519	-3.193	0.442
ATOM	1461	HH12	ARG	94	18.496	-3.704	-0.345
ATOM	1462	NH2	ARG	94	18.430	-3.359	-0.523
ATOM	1463	HH21	ARG	94	18.393	-3.190	-0.559
ATOM	1464	HH22	ARG	94	18.430	-3.708	-0.892
ATOM	1465	C	ARG	94	16.528	0.102	4.112
ATOM	1466	O	ARG	94	16.264	1.120	3.704
ATOM	1467	N	ARG	95	16.880	-0.061	5.274
ATOM	1468	H	ARG	95	17.088	-0.931	5.485
ATOM	1469	CA	ARG	95	16.940	0.868	6.295
ATOM	1470	HA	ARG	95	17.134	0.364	7.113
ATOM	1471	CB	ARG	95	18.019	1.704	6.094
ATOM	1472	HB2	ARG	95	18.319	1.835	5.722
ATOM	1473	HB3	ARG	95	18.047	2.137	6.156
ATOM	1474	CG	ARG	95	18.682	1.802	6.315
ATOM	1475	HG2	ARG	95	18.606	1.720	6.463
ATOM	1476	HG3	ARG	95	18.654	1.622	6.224
ATOM	1477	CD	ARG	95	19.505	2.271	6.447
ATOM	1478	HD2	ARG	95	19.716	2.224	6.330
ATOM	1479	HD3	ARG	95	19.572	2.457	6.370
ATOM	1480	NE	ARG	95	19.926	2.534	6.827
ATOM	1481	HE	ARG	95	19.825	2.467	7.052
ATOM	1482	CZ	ARG	95	20.429	2.852	6.911
ATOM	1483	NH1	ARG	95	20.636	2.984	6.658
ATOM	1484	HH11	ARG	95	20.420	2.844	6.389
ATOM	1485	HH12	ARG	95	21.019	3.228	6.740
ATOM	1486	NH2	ARG	95	20.742	3.047	7.261
ATOM	1487	HH21	ARG	95	20.602	2.952	7.465
ATOM	1488	HH22	ARG	95	21.119	3.286	7.326
ATOM	1489	C	ARG	95	15.749	1.583	6.643
ATOM	1490	O	ARG	95	15.731	2.091	7.492
ATOM	1491	N	TYR	96	14.761	1.626	6.028
ATOM	1492	H	TYR	96	14.850	1.197	5.342
ATOM	1493	CA	TYR	96	13.604	2.375	6.272
ATOM	1494	HA	TYR	96	13.777	3.006	7.065
ATOM	1495	CB	TYR	96	13.325	3.194	5.123
ATOM	1496	HB2	TYR	96	13.486	2.804	4.444
ATOM	1497	HB3	TYR	96	12.540	3.377	5.086
ATOM	1498	CG	TYR	96	13.835	4.286	4.905
ATOM	1499	CD1	TYR	96	13.803	4.920	4.960
ATOM	1500	HD1	TYR	96	13.419	4.633	5.160
ATOM	1501	CE1	TYR	96	14.270	5.929	4.753
ATOM	1502	HE1	TYR	96	14.248	6.412	4.794
ATOM	1503	CZ	TYR	96	14.771	6.308	4.492
ATOM	1504	OH	TYR	96	15.220	7.274	4.297
ATOM	1505	HH	TYR	96	15.530	7.436	4.142
ATOM	1506	CE2	TYR	96	14.802	5.678	4.435
ATOM	1507	HE2	TYR	96	15.182	5.964	4.234
ATOM	1508	CD2	TYR	96	14.336	4.671	4.641
ATOM	1509	HD2	TYR	96	14.364	4.192	4.595
ATOM	1510	C	TYR	96	12.438	1.585	6.651
ATOM	1511	O	TYR	96	11.597	2.041	7.317
ATOM	1512	N	ASP	97	12.383	0.391	6.290
ATOM	1513	H	ASP	97	13.082	0.066	5.734
ATOM	1514	CA	ASP	97	11.316	-0.468	6.613
ATOM	1515	HA	ASP	97	10.429	-0.032	6.328
ATOM	1516	CB	ASP	97	11.475	-1.670	5.843
ATOM	1517	HB2	ASP	97	11.545	-1.442	4.882
ATOM	1518	HB3	ASP	97	12.331	-2.086	6.108
ATOM	1519	CG	ASP	97	10.402	-2.615	5.976
ATOM	1520	OD1	ASP	97	9.973	-2.987	6.087
ATOM	1521	OD2	ASP	97	9.993	-3.014	5.934
ATOM	1522	C	ASP	97	11.191	-0.743	8.048
ATOM	1523	O	ASP	97	10.159	-0.928	8.535
ATOM	1524	N	SER	98	12.227	-0.695	8.744
ATOM	1525	H	SER	98	13.040	-0.549	8.287
ATOM	1526	CA	SER	98	12.250	-0.811	10.137
ATOM	1527	HA	SER	98	11.759	-1.671	10.414
ATOM	1528	CB	SER	98	13.624	-0.915	10.555
ATOM	1529	HB2	SER	98	13.913	-0.500	10.925
ATOM	1530	HB3	SER	98	13.808	-1.381	10.890
ATOM	1531	OG	SER	98	14.302	-0.966	10.052
ATOM	1532	HG	SER	98	14.613	-1.039	10.049
ATOM	1533	C	SER	98	11.571	0.265	10.859
ATOM	1534	O	SER	98	11.088	0.078	11.905
ATOM	1535	N	GLU	99	11.466	1.378	10.301
ATOM	1536	H	GLU	99	11.871	1.473	9.443
ATOM	1537	CA	GLU	99	10.736	2.447	10.841
ATOM	1538	HA	GLU	99	10.938	2.534	11.838
ATOM	1539	CB	GLU	99	11.168	3.661	10.178
ATOM	1540	HB2	GLU	99	11.582	3.632	9.681
ATOM	1541	HB3	GLU	99	10.739	4.014	9.902

ATOM	1542	CG	GLU	99	11.618	4.458	10.537
ATOM	1543	HG2	GLU	99	11.660	4.483	10.385
ATOM	1544	HG3	GLU	99	11.463	4.488	10.558
ATOM	1545	CD	GLU	99	12.226	5.194	11.050
ATOM	1546	OE1	GLU	99	12.428	5.456	11.323
ATOM	1547	OE2	GLU	99	12.513	5.524	11.190
ATOM	1548	C	GLU	99	9.278	2.250	10.772
ATOM	1549	O	GLU	99	8.565	2.625	11.612
ATOM	1550	N	PHE	100	8.826	1.601	9.819
ATOM	1551	H	PHE	100	9.455	1.311	9.162
ATOM	1552	CA	PHE	100	7.467	1.252	9.697
ATOM	1553	HA	PHE	100	6.878	2.082	9.924
ATOM	1554	CB	PHE	100	7.207	0.850	8.306
ATOM	1555	HB2	PHE	100	7.868	0.502	7.925
ATOM	1556	HB3	PHE	100	6.626	0.268	8.280
ATOM	1557	CG	PHE	100	6.823	1.629	7.433
ATOM	1558	CD1	PHE	100	6.629	2.015	6.932
ATOM	1559	HD1	PHE	100	6.755	1.770	7.176
ATOM	1560	CE1	PHE	100	6.274	2.722	6.110
ATOM	1561	HE1	PHE	100	6.134	3.015	5.733
ATOM	1562	CZ	PHE	100	6.105	3.047	5.781
ATOM	1563	HZ	PHE	100	5.836	3.589	5.150
ATOM	1564	CE2	PHE	100	6.295	2.668	6.277
ATOM	1565	HE2	PHE	100	6.168	2.919	6.028
ATOM	1566	CD2	PHE	100	6.651	1.959	7.100
ATOM	1567	HD2	PHE	100	6.795	1.672	7.475
ATOM	1568	C	PHE	100	7.054	0.208	10.652
ATOM	1569	O	PHE	100	5.967	0.217	11.125
ATOM	1570	N	GLN	101	7.922	-0.657	11.002
ATOM	1571	H	GLN	101	8.787	-0.628	10.569
ATOM	1572	CA	GLN	101	7.674	-1.646	11.978
ATOM	1573	HA	GLN	101	6.820	-2.158	11.712
ATOM	1574	CB	GLN	101	8.794	-2.586	11.989
ATOM	1575	HB2	GLN	101	9.371	-2.448	11.790
ATOM	1576	HB3	GLN	101	9.003	-2.814	12.507
ATOM	1577	CG	GLN	101	8.880	-3.425	11.589
ATOM	1578	HG2	GLN	101	8.835	-3.500	11.395
ATOM	1579	HG3	GLN	101	8.994	-3.388	11.574
ATOM	1580	CD	GLN	101	8.906	-4.239	11.462
ATOM	1581	OE1	GLN	101	8.667	-4.526	11.722
ATOM	1582	NE2	GLN	101	9.198	-4.649	11.059
ATOM	1583	HE21	GLN	101	9.220	-5.186	10.977
ATOM	1584	HE22	GLN	101	9.408	-4.434	10.830
ATOM	1585	C	GLN	101	7.402	-1.097	13.331
ATOM	1586	O	GLN	101	6.602	-1.612	14.038
ATOM	1587	N	THR	102	7.993	-0.022	13.675
ATOM	1588	H	THR	102	8.645	0.349	13.064
ATOM	1589	CA	THR	102	7.742	0.646	14.905
ATOM	1590	HA	THR	102	7.773	-0.055	15.678
ATOM	1591	CB	THR	102	8.786	1.644	15.169
ATOM	1592	HB	THR	102	8.638	2.295	15.059
ATOM	1593	CG2	THR	102	9.258	1.801	16.080
ATOM	1594	HG21	THR	102	9.389	1.824	16.298
ATOM	1595	HG22	THR	102	9.378	1.865	16.292
ATOM	1596	HG23	THR	102	9.358	1.842	16.321
ATOM	1597	OG1	THR	102	9.575	1.613	14.723
ATOM	1598	HG1	THR	102	9.950	1.693	14.343
ATOM	1599	C	THR	102	6.393	1.265	14.971
ATOM	1600	O	THR	102	5.788	1.260	15.984
ATOM	1601	N	MET	103	5.867	1.720	13.895
ATOM	1602	H	MET	103	6.411	1.713	13.098
ATOM	1603	CA	MET	103	4.528	2.209	13.820
ATOM	1604	HA	MET	103	4.374	2.891	14.598
ATOM	1605	CB	MET	103	4.322	2.924	12.534
ATOM	1606	HB2	MET	103	4.509	2.543	11.934
ATOM	1607	HB3	MET	103	3.612	3.109	12.393
ATOM	1608	CG	MET	103	4.791	3.925	12.235
ATOM	1609	HG2	MET	103	4.615	4.310	12.771
ATOM	1610	HG3	MET	103	5.446	3.789	12.362
ATOM	1611	SD	MET	103	4.604	4.736	10.846
ATOM	1612	CE	MET	103	5.483	5.150	10.446
ATOM	1613	HE1	MET	103	5.663	5.222	10.369
ATOM	1614	HE2	MET	103	5.653	5.242	10.355
ATOM	1615	HE3	MET	103	5.665	5.242	10.364
ATOM	1616	C	MET	103	3.514	1.131	14.005
ATOM	1617	O	MET	103	2.541	1.319	14.630
ATOM	1618	N	LEU	104	3.763	-0.021	13.525
ATOM	1619	H	LEU	104	4.573	-0.110	13.014
ATOM	1620	CA	LEU	104	2.915	-1.156	13.670
ATOM	1621	HA	LEU	104	1.928	-0.841	13.539
ATOM	1622	CB	LEU	104	3.244	-2.119	12.606
ATOM	1623	HB2	LEU	104	3.938	-2.103	12.314
ATOM	1624	HB3	LEU	104	3.204	-2.792	12.841
ATOM	1625	CG	LEU	104	2.726	-2.239	11.614
ATOM	1626	HG	LEU	104	2.917	-1.931	11.727
ATOM	1627	CD1	LEU	104	2.566	-2.645	10.885
ATOM	1628	HD11	LEU	104	2.500	-2.768	10.726
ATOM	1629	HD12	LEU	104	2.505	-2.722	10.638
ATOM	1630	HD13	LEU	104	2.580	-2.733	10.765
ATOM	1631	CD2	LEU	104	2.115	-2.411	11.122
ATOM	1632	HD21	LEU	104	1.974	-2.476	10.999
ATOM	1633	HD22	LEU	104	1.963	-2.448	10.989
ATOM	1634	HD23	LEU	104	1.968	-2.432	11.021
ATOM	1635	C	LEU	104	2.950	-1.785	15.026
ATOM	1636	O	LEU	104	2.055	-2.460	15.389
ATOM	1637	N	GLN	105	3.932	-1.523	15.809
ATOM	1638	H	GLN	105	4.652	-1.001	15.448
ATOM	1639	CA	GLN	105	4.019	-1.952	17.162
ATOM	1640	HA	GLN	105	3.771	-2.948	17.211
ATOM	1641	CB	GLN	105	5.399	-1.816	17.645
ATOM	1642	HB2	GLN	105	5.841	-1.450	17.295
ATOM	1643	HB3	GLN	105	5.513	-1.533	18.231
ATOM	1644	CG	GLN	105	6.058	-2.555	17.824
ATOM	1645	HG2	GLN	105	5.819	-2.851	18.012
ATOM	1646	HG3	GLN	105	6.100	-2.748	17.511

ATOM	1647	CD	GLN	105	7.006	-2.650	18.176
ATOM	1648	OE1	GLN	105	7.283	-2.339	18.324
ATOM	1649	NE2	GLN	105	7.542	-3.079	18.325
ATOM	1650	HE21	GLN	105	8.158	-3.138	18.554
ATOM	1651	HE22	GLN	105	7.333	-3.343	18.216
ATOM	1652	C	GLN	105	3.079	-1.261	18.046
ATOM	1653	O	GLN	105	2.760	-1.743	19.044
ATOM	1654	N	HIP	106	2.599	-0.154	17.683
ATOM	1655	H	HIP	106	2.910	0.194	16.863
ATOM	1656	CA	HIP	106	1.661	0.595	18.417
ATOM	1657	HA	HIP	106	1.830	0.402	19.417
ATOM	1658	CB	HIP	106	1.891	2.014	18.185
ATOM	1659	HB2	HIP	106	1.870	2.199	17.358
ATOM	1660	HB3	HIP	106	1.266	2.537	18.517
ATOM	1661	CG	HIP	106	2.935	2.535	18.601
ATOM	1662	ND1	HIP	106	3.553	2.463	19.413
ATOM	1663	HD1	HIP	106	3.392	2.050	19.839
ATOM	1664	CE1	HIP	106	4.411	3.049	19.536
ATOM	1665	HE1	HIP	106	5.034	3.148	20.104
ATOM	1666	NE2	HIP	106	4.355	3.494	18.830
ATOM	1667	HE2	HIP	106	4.891	3.972	18.748
ATOM	1668	CD2	HIP	106	3.436	3.182	18.239
ATOM	1669	HD2	HIP	106	3.159	3.404	17.614
ATOM	1670	C	HIP	106	0.242	0.235	18.178
ATOM	1671	O	HIP	106	-0.604	0.716	18.757
ATOM	1672	N	LEU	107	-0.032	-0.609	17.338
ATOM	1673	H	LEU	107	0.706	-0.961	16.915
ATOM	1674	CA	LEU	107	-1.329	-1.099	17.025
ATOM	1675	HA	LEU	107	-2.006	-0.343	17.127
ATOM	1676	CB	LEU	107	-1.347	-1.515	15.650
ATOM	1677	HB2	LEU	107	-1.015	-1.421	15.331
ATOM	1678	HB3	LEU	107	-1.331	-1.931	15.596
ATOM	1679	CG	LEU	107	-1.812	-1.523	14.754
ATOM	1680	HG	LEU	107	-1.816	-1.721	15.081
ATOM	1681	CD1	LEU	107	-2.204	-1.236	14.249
ATOM	1682	HD11	LEU	107	-2.332	-1.197	14.180
ATOM	1683	HD12	LEU	107	-2.288	-1.089	14.079
ATOM	1684	HD13	LEU	107	-2.282	-1.217	14.125
ATOM	1685	CD2	LEU	107	-1.888	-1.567	13.843
ATOM	1686	HD21	LEU	107	-1.968	-1.541	13.635
ATOM	1687	HD22	LEU	107	-1.811	-1.554	13.620
ATOM	1688	HD23	LEU	107	-1.943	-1.641	13.619
ATOM	1689	C	LEU	107	-1.759	-2.176	17.926
ATOM	1690	O	LEU	107	-0.983	-2.938	18.323
ATOM	1691	N	GLN	108	-3.003	-2.258	18.228
ATOM	1692	H	GLN	108	-3.580	-1.610	17.860
ATOM	1693	CA	GLN	108	-3.593	-3.272	18.999
ATOM	1694	HA	GLN	108	-2.939	-3.457	19.762
ATOM	1695	CB	GLN	108	-4.866	-2.834	19.545
ATOM	1696	HB2	GLN	108	-5.405	-2.589	19.039
ATOM	1697	HB3	GLN	108	-5.283	-3.373	19.918
ATOM	1698	CG	GLN	108	-4.894	-2.011	20.276
ATOM	1699	HG2	GLN	108	-4.475	-1.849	20.228
ATOM	1700	HG3	GLN	108	-5.146	-1.678	20.266
ATOM	1701	CD	GLN	108	-5.174	-1.831	21.097
ATOM	1702	OE1	GLN	108	-5.283	-2.109	21.298
ATOM	1703	NE2	GLN	108	-5.298	-1.363	21.607
ATOM	1704	HE21	GLN	108	-5.482	-1.247	22.139
ATOM	1705	HE22	GLN	108	-5.216	-1.124	21.463
ATOM	1706	C	GLN	108	-3.803	-4.496	18.259
ATOM	1707	O	GLN	108	-3.961	-4.441	17.140
ATOM	1708	N	PRO	109	-3.839	-5.605	18.842
ATOM	1709	CD	PRO	109	-3.578	-5.816	20.137
ATOM	1710	HD2	PRO	109	-4.332	-5.538	20.689
ATOM	1711	HD3	PRO	109	-2.731	-5.349	20.418
ATOM	1712	CG	PRO	109	-3.428	-7.172	20.290
ATOM	1713	HG2	PRO	109	-4.046	-7.491	20.811
ATOM	1714	HG3	PRO	109	-2.628	-7.347	20.589
ATOM	1715	CB	PRO	109	-3.570	-7.760	19.154
ATOM	1716	HB2	PRO	109	-2.776	-8.113	18.974
ATOM	1717	HB3	PRO	109	-4.201	-8.403	19.227
ATOM	1718	CA	PRO	109	-3.938	-6.808	18.203
ATOM	1719	HA	PRO	109	-3.242	-6.802	17.488
ATOM	1720	C	PRO	109	-5.234	-7.150	17.611
ATOM	1721	O	PRO	109	-5.369	-8.090	17.164
ATOM	1722	N	THR	110	-6.191	-6.412	17.601
ATOM	1723	H	THR	110	-6.018	-5.647	17.952
ATOM	1724	CA	THR	110	-7.488	-6.632	17.092
ATOM	1725	HA	THR	110	-7.606	-7.618	16.948
ATOM	1726	CB	THR	110	-8.500	-6.229	18.010
ATOM	1727	HB	THR	110	-9.240	-6.358	17.751
ATOM	1728	CG2	THR	110	-8.518	-6.676	19.040
ATOM	1729	HG21	THR	110	-8.517	-6.773	19.308
ATOM	1730	HG22	THR	110	-8.556	-6.780	19.277
ATOM	1731	HG23	THR	110	-8.514	-6.809	19.288
ATOM	1732	OG1	THR	110	-8.531	-5.266	18.271
ATOM	1733	HG1	THR	110	-9.035	-5.061	18.646
ATOM	1734	C	THR	110	-7.718	-6.000	15.824
ATOM	1735	O	THR	110	-7.279	-5.007	15.592
ATOM	1736	N	ALA	111	-8.419	-6.564	14.990
ATOM	1737	H	ALA	111	-8.775	-7.361	15.238
ATOM	1738	CA	ALA	111	-8.662	-6.094	13.727
ATOM	1739	HA	ALA	111	-7.780	-5.851	13.316
ATOM	1740	CB	ALA	111	-9.236	-7.109	12.973
ATOM	1741	HB1	ALA	111	-9.323	-7.347	12.750
ATOM	1742	HB2	ALA	111	-9.372	-7.387	12.837
ATOM	1743	HB3	ALA	111	-9.426	-7.321	12.773
ATOM	1744	C	ALA	111	-9.476	-4.945	13.675
ATOM	1745	O	ALA	111	-9.259	-4.154	12.931
ATOM	1746	N	GLU	112	-10.371	-4.816	14.499
ATOM	1747	H	GLU	112	-10.520	-5.499	15.072
ATOM	1748	CA	GLU	112	-11.195	-3.756	14.567
ATOM	1749	HA	GLU	112	-11.541	-3.580	13.648
ATOM	1750	CB	GLU	112	-12.306	-4.076	15.410
ATOM	1751	HB2	GLU	112	-12.499	-4.166	15.639

ATOM	1752	HB3	GLU	112	-12.555	-4.063	15.567
ATOM	1753	CG	GLU	112	-12.858	-4.282	15.718
ATOM	1754	HG2	GLU	112	-12.722	-4.065	15.657
ATOM	1755	HG3	GLU	112	-12.867	-4.299	15.587
ATOM	1756	CD	GLU	112	-13.596	-4.755	16.293
ATOM	1757	OE1	GLU	112	-13.864	-4.976	16.565
ATOM	1758	OE2	GLU	112	-13.913	-4.912	16.479
ATOM	1759	C	GLU	112	-10.538	-2.549	14.970
ATOM	1760	O	GLU	112	-10.875	-1.565	14.578
ATOM	1761	N	ASN	113	-9.568	-2.610	15.705
ATOM	1762	H	ASN	113	-9.330	-3.439	16.000
ATOM	1763	CA	ASN	113	-8.812	-1.524	16.072
ATOM	1764	HA	ASN	113	-9.426	-0.746	16.199
ATOM	1765	CB	ASN	113	-8.230	-1.852	17.336
ATOM	1766	HB2	ASN	113	-8.897	-2.225	17.983
ATOM	1767	HB3	ASN	113	-7.561	-2.523	17.234
ATOM	1768	CG	ASN	113	-7.655	-0.788	17.898
ATOM	1769	OD1	ASN	113	-6.947	-0.517	17.789
ATOM	1770	ND2	ASN	113	-7.942	-0.158	18.527
ATOM	1771	HD21	ASN	113	-7.571	0.532	18.899
ATOM	1772	HD22	ASN	113	-8.528	-0.374	18.628
ATOM	1773	C	ASN	113	-7.829	-1.078	15.049
ATOM	1774	O	ASN	113	-7.540	0.064	14.943
ATOM	1775	N	ALA	114	-7.359	-1.948	14.251
ATOM	1776	H	ALA	114	-7.626	-2.865	14.385
ATOM	1777	CA	ALA	114	-6.481	-1.627	13.192
ATOM	1778	HA	ALA	114	-5.679	-1.083	13.575
ATOM	1779	CB	ALA	114	-5.964	-2.889	12.657
ATOM	1780	HB1	ALA	114	-5.847	-3.200	12.523
ATOM	1781	HB2	ALA	114	-5.834	-3.179	12.517
ATOM	1782	HB3	ALA	114	-5.827	-3.199	12.539
ATOM	1783	C	ALA	114	-7.093	-0.765	12.128
ATOM	1784	O	ALA	114	-6.441	0.097	11.604
ATOM	1785	N	TYR	115	-8.348	-0.941	11.850
ATOM	1786	H	TYR	115	-8.818	-1.679	12.285
ATOM	1787	CA	TYR	115	-9.075	-0.116	10.938
ATOM	1788	HA	TYR	115	-8.535	-0.038	10.037
ATOM	1789	CB	TYR	115	-10.391	-0.766	10.658
ATOM	1790	HB2	TYR	115	-10.725	-1.004	11.270
ATOM	1791	HB3	TYR	115	-10.901	-0.289	10.371
ATOM	1792	CG	TYR	115	-10.664	-1.685	9.958
ATOM	1793	CD1	TYR	115	-10.238	-2.043	9.211
ATOM	1794	HD1	TYR	115	-9.698	-1.673	9.130
ATOM	1795	CE1	TYR	115	-10.522	-2.886	8.567
ATOM	1796	HE1	TYR	115	-10.201	-3.161	7.998
ATOM	1797	CZ	TYR	115	-11.232	-3.377	8.664
ATOM	1798	OH	TYR	115	-11.502	-4.186	8.040
ATOM	1799	HH	TYR	115	-12.071	-4.445	8.268
ATOM	1800	CE2	TYR	115	-11.662	-3.023	9.407
ATOM	1801	HE2	TYR	115	-12.208	-3.395	9.482
ATOM	1802	CD2	TYR	115	-11.379	-2.179	10.048
ATOM	1803	HD2	TYR	115	-11.715	-1.910	10.608
ATOM	1804	C	TYR	115	-9.250	1.292	11.433
ATOM	1805	O	TYR	115	-9.127	2.224	10.684
ATOM	1806	N	GLU	116	-9.476	1.468	12.699
ATOM	1807	H	GLU	116	-9.581	0.674	13.260
ATOM	1808	CA	GLU	116	-9.567	2.765	13.313
ATOM	1809	HA	GLU	116	-10.230	3.363	12.748
ATOM	1810	CB	GLU	116	-10.137	2.611	14.692
ATOM	1811	HB2	GLU	116	-10.633	2.112	14.823
ATOM	1812	HB3	GLU	116	-9.706	2.440	15.202
ATOM	1813	CG	GLU	116	-10.639	3.352	15.219
ATOM	1814	HG2	GLU	116	-10.196	3.615	15.188
ATOM	1815	HG3	GLU	116	-10.969	3.613	14.938
ATOM	1816	CD	GLU	116	-11.288	3.382	16.177
ATOM	1817	OE1	GLU	116	-11.484	3.399	16.588
ATOM	1818	OE2	GLU	116	-11.608	3.403	16.529
ATOM	1819	C	GLU	116	-8.241	3.497	13.325
ATOM	1820	O	GLU	116	-8.177	4.648	13.003
ATOM	1821	N	TYR	117	-7.168	2.825	13.618
ATOM	1822	H	TYR	117	-7.284	1.891	13.891
ATOM	1823	CA	TYR	117	-5.830	3.381	13.596
ATOM	1824	HA	TYR	117	-5.817	4.259	14.199
ATOM	1825	CB	TYR	117	-4.877	2.391	14.205
ATOM	1826	HB2	TYR	117	-5.274	2.042	15.103
ATOM	1827	HB3	TYR	117	-4.794	1.566	13.586
ATOM	1828	CG	TYR	117	-3.537	2.910	14.486
ATOM	1829	CD1	TYR	117	-3.261	3.495	15.584
ATOM	1830	HD1	TYR	117	-3.997	3.582	16.213
ATOM	1831	CE1	TYR	117	-2.027	3.969	15.868
ATOM	1832	HE1	TYR	117	-1.824	4.413	16.709
ATOM	1833	CZ	TYR	117	-1.058	3.859	15.052
ATOM	1834	OH	TYR	117	0.130	4.311	15.324
ATOM	1835	HH	TYR	117	0.204	4.673	16.049
ATOM	1836	CE2	TYR	117	-1.329	3.274	13.950
ATOM	1837	HE2	TYR	117	-0.583	3.195	13.336
ATOM	1838	CD2	TYR	117	-2.567	2.803	13.666
ATOM	1839	HD2	TYR	117	-2.771	2.361	12.823
ATOM	1840	C	TYR	117	-5.398	3.794	12.206
ATOM	1841	O	TYR	117	-4.876	4.872	12.018
ATOM	1842	N	PHE	118	-5.678	2.984	11.216
ATOM	1843	H	PHE	118	-6.101	2.116	11.430
ATOM	1844	CA	PHE	118	-5.405	3.302	9.836
ATOM	1845	HA	PHE	118	-4.361	3.516	9.732
ATOM	1846	CB	PHE	118	-5.734	2.106	8.982
ATOM	1847	HB2	PHE	118	-5.234	1.285	9.362
ATOM	1848	HB3	PHE	118	-6.752	1.892	9.060
ATOM	1849	CG	PHE	118	-5.387	2.218	7.559
ATOM	1850	CD1	PHE	118	-4.917	2.240	6.959
ATOM	1851	HD1	PHE	118	-4.800	2.197	7.503
ATOM	1852	CE1	PHE	118	-4.596	2.319	5.649
ATOM	1853	HE1	PHE	118	-4.238	2.340	5.200
ATOM	1854	CZ	PHE	118	-4.744	2.375	4.930
ATOM	1855	HZ	PHE	118	-4.499	2.439	3.929
ATOM	1856	CE2	PHE	118	-5.209	2.353	5.521

ATOM	1857	HE2	PHE	118	-5.320	2.400	4.973
ATOM	1858	CD2	PHE	118	-5.529	2.276	6.831
ATOM	1859	HD2	PHE	118	-5.885	2.261	7.275
ATOM	1860	C	PHE	118	-6.143	4.532	9.390
ATOM	1861	O	PHE	118	-5.556	5.403	8.794
ATOM	1862	N	THR	119	-7.400	4.657	9.742
ATOM	1863	H	THR	119	-7.822	3.922	10.248
ATOM	1864	CA	THR	119	-8.193	5.818	9.424
ATOM	1865	HA	THR	119	-8.142	5.979	8.381
ATOM	1866	CB	THR	119	-9.641	5.601	9.789
ATOM	1867	HB	THR	119	-9.787	5.744	10.539
ATOM	1868	CG2	THR	119	-10.460	6.195	9.249
ATOM	1869	HG21	THR	119	-10.658	6.338	9.125
ATOM	1870	HG22	THR	119	-10.649	6.336	9.138
ATOM	1871	HG23	THR	119	-10.687	6.346	9.101
ATOM	1872	OG1	THR	119	-10.113	4.626	9.659
ATOM	1873	HG1	THR	119	-9.961	3.998	10.014
ATOM	1874	C	THR	119	-7.663	7.071	10.065
ATOM	1875	O	THR	119	-7.628	8.088	9.445
ATOM	1876	N	LYS	120	-7.180	7.008	11.266
ATOM	1877	H	LYS	120	-7.247	6.149	11.721
ATOM	1878	CA	LYS	120	-6.589	8.128	11.965
ATOM	1879	HA	LYS	120	-7.250	8.952	11.899
ATOM	1880	CB	LYS	120	-6.420	7.786	13.413
ATOM	1881	HB2	LYS	120	-6.264	7.036	13.525
ATOM	1882	HB3	LYS	120	-5.815	8.157	13.793
ATOM	1883	CG	LYS	120	-7.276	7.980	14.215
ATOM	1884	HG2	LYS	120	-7.397	8.691	14.186
ATOM	1885	HG3	LYS	120	-7.849	7.664	13.842
ATOM	1886	CD	LYS	120	-7.191	7.649	15.566
ATOM	1887	HD2	LYS	120	-7.043	7.208	15.668
ATOM	1888	HD3	LYS	120	-6.875	7.873	15.904
ATOM	1889	CE	LYS	120	-7.751	7.622	16.314
ATOM	1890	HE2	LYS	120	-7.958	7.920	16.189
ATOM	1891	HE3	LYS	120	-7.963	7.405	16.097
ATOM	1892	NZ	LYS	120	-7.734	7.491	17.472
ATOM	1893	HZ1	LYS	120	-7.749	7.446	17.772
ATOM	1894	HZ2	LYS	120	-7.712	7.459	17.739
ATOM	1895	HZ3	LYS	120	-7.727	7.473	17.759
ATOM	1896	C	LYS	120	-5.295	8.607	11.350
ATOM	1897	O	LYS	120	-5.117	9.729	11.148
ATOM	1898	N	ILE	121	-4.416	7.781	10.996
ATOM	1899	H	ILE	121	-4.613	6.867	11.190
ATOM	1900	CA	ILE	121	-3.146	8.183	10.408
ATOM	1901	HA	ILE	121	-2.840	9.087	10.882
ATOM	1902	CB	ILE	121	-2.048	7.186	10.682
ATOM	1903	HB	ILE	121	-1.258	7.540	10.344
ATOM	1904	CG2	ILE	121	-1.815	7.006	11.969
ATOM	1905	HG21	ILE	121	-1.705	6.995	12.280
ATOM	1906	HG22	ILE	121	-1.794	6.982	12.306
ATOM	1907	HG23	ILE	121	-1.755	6.915	12.271
ATOM	1908	CG1	ILE	121	-2.148	5.967	10.135
ATOM	1909	HG12	ILE	121	-2.639	5.495	10.497
ATOM	1910	HG13	ILE	121	-2.462	6.035	9.451
ATOM	1911	CD1	ILE	121	-1.171	5.250	9.995
ATOM	1912	HD11	ILE	121	-0.951	5.072	9.956
ATOM	1913	HD12	ILE	121	-0.930	5.073	9.958
ATOM	1914	HD13	ILE	121	-0.934	5.067	9.958
ATOM	1915	C	ILE	121	-3.253	8.550	8.953
ATOM	1916	O	ILE	121	-2.546	9.411	8.501
ATOM	1917	N	ALA	122	-4.167	7.971	8.226
ATOM	1918	H	ALA	122	-4.704	7.251	8.631
ATOM	1919	CA	ALA	122	-4.393	8.281	6.839
ATOM	1920	HA	ALA	122	-3.451	8.374	6.357
ATOM	1921	CB	ALA	122	-5.119	7.131	6.209
ATOM	1922	HB1	ALA	122	-5.270	6.853	6.023
ATOM	1923	HB2	ALA	122	-5.285	6.833	6.084
ATOM	1924	HB3	ALA	122	-5.322	6.877	6.051
ATOM	1925	C	ALA	122	-5.111	9.590	6.619
ATOM	1926	O	ALA	122	-4.938	10.204	5.628
ATOM	1927	N	THR	123	-5.871	10.061	7.548
ATOM	1928	H	THR	123	-6.006	9.510	8.326
ATOM	1929	CA	THR	123	-6.487	11.366	7.512
ATOM	1930	HA	THR	123	-6.887	11.509	6.559
ATOM	1931	CB	THR	123	-7.612	11.475	8.477
ATOM	1932	HB	THR	123	-7.514	11.711	9.171
ATOM	1933	CG2	THR	123	-8.445	12.057	8.313
ATOM	1934	HG21	THR	123	-8.632	12.223	8.249
ATOM	1935	HG22	THR	123	-8.645	12.170	8.265
ATOM	1936	HG23	THR	123	-8.674	12.209	8.317
ATOM	1937	OG1	THR	123	-8.082	10.711	8.661
ATOM	1938	HG1	THR	123	-7.984	10.053	8.970
ATOM	1939	C	THR	123	-5.506	12.467	7.733
ATOM	1940	O	THR	123	-5.557	13.410	7.161
ATOM	1941	N	SER	124	-4.560	12.325	8.505
ATOM	1942	H	SER	124	-4.586	11.544	8.966
ATOM	1943	CA	SER	124	-3.516	13.267	8.772
ATOM	1944	HA	SER	124	-3.937	14.233	8.760
ATOM	1945	CB	SER	124	-2.986	13.046	10.131
ATOM	1946	HB2	SER	124	-2.616	12.399	10.167
ATOM	1947	HB3	SER	124	-2.468	13.575	10.437
ATOM	1948	OG	SER	124	-3.632	12.999	10.960
ATOM	1949	HG	SER	124	-3.630	12.811	11.428
ATOM	1950	C	SER	124	-2.385	13.255	7.760
ATOM	1951	O	SER	124	-1.609	14.101	7.738
ATOM	1952	N	LEU	125	-2.296	12.328	6.891
ATOM	1953	H	LEU	125	-2.928	11.649	6.993
ATOM	1954	CA	LEU	125	-1.312	12.207	5.830
ATOM	1955	HA	LEU	125	-0.350	12.445	6.235
ATOM	1956	CB	LEU	125	-1.297	10.754	5.380
ATOM	1957	HB2	LEU	125	-1.096	10.148	6.223
ATOM	1958	HB3	LEU	125	-2.263	10.508	5.035
ATOM	1959	CG	LEU	125	-0.324	10.375	4.298
ATOM	1960	HG	LEU	125	-0.547	10.922	3.428
ATOM	1961	CD1	LEU	125	1.083	10.633	4.672

ATOM	1962	HD11	LEU	125	1.409	10.711	4.787
ATOM	1963	HD12	LEU	125	1.434	10.721	4.734
ATOM	1964	HD13	LEU	125	1.430	10.667	4.755
ATOM	1965	CD2	LEU	125	-0.452	8.921	3.983
ATOM	1966	HD21	LEU	125	-0.502	8.578	3.888
ATOM	1967	HD22	LEU	125	-0.463	8.568	3.897
ATOM	1968	HD23	LEU	125	-0.494	8.563	3.923
ATOM	1969	C	LEU	125	-1.562	13.162	4.671
ATOM	1970	O	LEU	125	-0.634	13.627	4.074
ATOM	1971	N	PHE	126	-2.794	13.483	4.375
ATOM	1972	H	PHE	126	-3.500	13.069	4.909
ATOM	1973	CA	PHE	126	-3.195	14.295	3.240
ATOM	1974	HA	PHE	126	-2.334	14.511	2.651
ATOM	1975	CB	PHE	126	-4.131	13.505	2.367
ATOM	1976	HB2	PHE	126	-4.993	13.331	2.860
ATOM	1977	HB3	PHE	126	-4.366	14.060	1.568
ATOM	1978	CG	PHE	126	-3.652	12.247	1.870
ATOM	1979	CD1	PHE	126	-2.750	12.183	1.007
ATOM	1980	HD1	PHE	126	-2.399	13.028	0.703
ATOM	1981	CE1	PHE	126	-2.312	11.021	0.541
ATOM	1982	HE1	PHE	126	-1.632	10.975	-0.128
ATOM	1983	CZ	PHE	126	-2.758	9.919	0.951
ATOM	1984	HZ	PHE	126	-2.415	9.032	0.603
ATOM	1985	CE2	PHE	126	-3.651	9.979	1.822
ATOM	1986	HE2	PHE	126	-3.992	9.140	2.145
ATOM	1987	CD2	PHE	126	-4.101	11.139	2.272
ATOM	1988	HD2	PHE	126	-4.787	11.178	2.935
ATOM	1989	C	PHE	126	-3.768	15.645	3.610
ATOM	1990	O	PHE	126	-4.177	16.356	2.804
ATOM	1991	N	GLU	127	-3.784	16.029	4.817
ATOM	1992	H	GLU	127	-3.444	15.413	5.432
ATOM	1993	CA	GLU	127	-4.333	17.271	5.304
ATOM	1994	HA	GLU	127	-5.268	17.358	4.933
ATOM	1995	CB	GLU	127	-4.443	17.243	6.752
ATOM	1996	HB2	GLU	127	-4.450	17.063	7.152
ATOM	1997	HB3	GLU	127	-4.329	17.348	7.082
ATOM	1998	CG	GLU	127	-4.716	17.312	7.262
ATOM	1999	HG2	GLU	127	-4.502	17.254	7.432
ATOM	2000	HG3	GLU	127	-4.873	17.309	7.278
ATOM	2001	CD	GLU	127	-5.060	17.455	7.553
ATOM	2002	OE1	GLU	127	-5.161	17.461	7.616
ATOM	2003	OE2	GLU	127	-5.234	17.569	7.718
ATOM	2004	C	GLU	127	-3.630	18.487	4.872
ATOM	2005	O	GLU	127	-4.179	19.496	4.754
ATOM	2006	N	SER	128	-2.431	18.386	4.585
ATOM	2007	H	SER	128	-2.034	17.546	4.746
ATOM	2008	CA	SER	128	-1.636	19.412	4.055
ATOM	2009	HA	SER	128	-2.138	20.294	4.180
ATOM	2010	CB	SER	128	-0.446	19.518	4.821
ATOM	2011	HB2	SER	128	0.123	20.107	4.489
ATOM	2012	HB3	SER	128	-0.609	19.779	5.654
ATOM	2013	OG	SER	128	0.136	18.548	4.906
ATOM	2014	HG	SER	128	0.260	18.349	5.443
ATOM	2015	C	SER	128	-1.321	19.301	2.603
ATOM	2016	O	SER	128	-0.668	20.003	2.090
ATOM	2017	N	GLY	129	-1.775	18.426	1.930
ATOM	2018	H	GLY	129	-2.309	17.885	2.405
ATOM	2019	CA	GLY	129	-1.579	18.200	0.541
ATOM	2020	HA2	GLY	129	-2.371	18.591	0.052
ATOM	2021	HA3	GLY	129	-0.758	18.697	0.233
ATOM	2022	C	GLY	129	-1.422	16.781	0.108
ATOM	2023	O	GLY	129	-1.187	15.931	0.880
ATOM	2024	N	ILE	130	-1.543	16.524	-1.146
ATOM	2025	H	ILE	130	-1.708	17.274	-1.715
ATOM	2026	CA	ILE	130	-1.424	15.225	-1.775
ATOM	2027	HA	ILE	130	-1.125	14.527	-1.025
ATOM	2028	CB	ILE	130	-2.772	14.750	-2.284
ATOM	2029	HB	ILE	130	-3.393	14.736	-1.518
ATOM	2030	CG2	ILE	130	-3.346	15.600	-3.225
ATOM	2031	HG21	ILE	130	-3.447	15.822	-3.482
ATOM	2032	HG22	ILE	130	-3.517	15.775	-3.472
ATOM	2033	HG23	ILE	130	-3.516	15.830	-3.412
ATOM	2034	CG1	ILE	130	-2.774	13.422	-2.805
ATOM	2035	HG12	ILE	130	-2.548	13.392	-3.605
ATOM	2036	HG13	ILE	130	-2.183	12.982	-2.396
ATOM	2037	CD1	ILE	130	-3.866	12.674	-2.799
ATOM	2038	HD11	ILE	130	-4.127	12.470	-2.802
ATOM	2039	HD12	ILE	130	-4.129	12.483	-2.786
ATOM	2040	HD13	ILE	130	-4.128	12.507	-2.809
ATOM	2041	C	ILE	130	-0.338	15.218	-2.832
ATOM	2042	O	ILE	130	-0.233	16.113	-3.631
ATOM	2043	N	ASN	131	0.477	14.192	-2.830
ATOM	2044	H	ASN	131	0.323	13.493	-2.160
ATOM	2045	CA	ASN	131	1.485	13.900	-3.828
ATOM	2046	HA	ASN	131	1.147	14.277	-4.777
ATOM	2047	CB	ASN	131	2.782	14.625	-3.476
ATOM	2048	HB2	ASN	131	3.451	14.532	-4.274
ATOM	2049	HB3	ASN	131	2.586	15.647	-3.370
ATOM	2050	CG	ASN	131	3.492	14.153	-2.260
ATOM	2051	OD1	ASN	131	3.780	13.029	-2.067
ATOM	2052	ND2	ASN	131	3.802	14.993	-1.412
ATOM	2053	HD21	ASN	131	4.337	14.728	-0.638
ATOM	2054	HD22	ASN	131	3.569	15.912	-1.568
ATOM	2055	C	ASN	131	1.658	12.386	-3.985
ATOM	2056	O	ASN	131	1.203	11.619	-3.150
ATOM	2057	N	TRP	132	2.320	11.953	-5.045
ATOM	2058	H	TRP	132	2.675	12.628	-5.678
ATOM	2059	CA	TRP	132	2.498	10.544	-5.376
ATOM	2060	HA	TRP	132	1.528	10.086	-5.435
ATOM	2061	CB	TRP	132	3.150	10.446	-6.742
ATOM	2062	HB2	TRP	132	2.568	10.936	-7.437
ATOM	2063	HB3	TRP	132	4.050	10.940	-6.725
ATOM	2064	CG	TRP	132	3.393	9.134	-7.269
ATOM	2065	CD1	TRP	132	4.517	8.675	-7.573
ATOM	2066	HD1	TRP	132	5.368	9.193	-7.464

ATOM	2067	NE1	TRP	132	4.408	7.456	-8.056
ATOM	2068	HE1	TRP	132	5.127	6.942	-8.354
ATOM	2069	CE2	TRP	132	3.194	7.068	-8.101
ATOM	2070	CZ2	TRP	132	2.620	5.948	-8.523
ATOM	2071	HZ2	TRP	132	3.163	5.185	-8.899
ATOM	2072	CH2	TRP	132	1.329	5.846	-8.451
ATOM	2073	HH2	TRP	132	0.873	5.000	-8.781
ATOM	2074	CZ3	TRP	132	0.634	6.853	-7.952
ATOM	2075	HZ3	TRP	132	-0.354	6.765	-7.898
ATOM	2076	CE3	TRP	132	1.220	7.975	-7.533
ATOM	2077	HE3	TRP	132	0.675	8.742	-7.162
ATOM	2078	CD2	TRP	132	2.517	8.116	-7.596
ATOM	2079	C	TRP	132	3.276	9.766	-4.320
ATOM	2080	O	TRP	132	2.903	8.661	-3.988
ATOM	2081	N	GLY	133	4.294	10.356	-3.718
ATOM	2082	H	GLY	133	4.533	11.271	-4.002
ATOM	2083	CA	GLY	133	5.057	9.737	-2.649
ATOM	2084	HA2	GLY	133	5.492	8.829	-3.006
ATOM	2085	HA3	GLY	133	5.846	10.399	-2.366
ATOM	2086	C	GLY	133	4.238	9.421	-1.405
ATOM	2087	O	GLY	133	4.354	8.340	-0.862
ATOM	2088	N	ARG	134	3.332	10.304	-1.002
ATOM	2089	H	ARG	134	3.301	11.170	-1.486
ATOM	2090	CA	ARG	134	2.373	10.059	0.085
ATOM	2091	HA	ARG	134	2.910	9.702	0.950
ATOM	2092	CB	ARG	134	1.656	11.354	0.468
ATOM	2093	HB2	ARG	134	1.226	11.791	-0.409
ATOM	2094	HB3	ARG	134	0.861	11.117	1.146
ATOM	2095	CG	ARG	134	2.549	12.379	1.149
ATOM	2096	HG2	ARG	134	2.913	11.981	2.054
ATOM	2097	HG3	ARG	134	3.377	12.604	0.531
ATOM	2098	CD	ARG	134	1.803	13.649	1.448
ATOM	2099	HD2	ARG	134	1.371	13.998	0.569
ATOM	2100	HD3	ARG	134	1.040	13.435	2.122
ATOM	2101	NE	ARG	134	2.653	14.683	1.978
ATOM	2102	HE	ARG	134	3.589	14.647	1.760
ATOM	2103	CZ	ARG	134	2.327	15.728	2.630
ATOM	2104	NH1	ARG	134	1.163	15.986	2.938
ATOM	2105	HH11	ARG	134	0.467	15.394	2.662
ATOM	2106	HH12	ARG	134	0.976	16.785	3.446
ATOM	2107	NH2	ARG	134	3.194	16.552	3.003
ATOM	2108	HH21	ARG	134	4.107	16.377	2.797
ATOM	2109	HH22	ARG	134	2.966	17.365	3.457
ATOM	2110	C	ARG	134	1.377	8.951	-0.250
ATOM	2111	O	ARG	134	1.031	8.183	0.623
ATOM	2112	N	VAL	135	0.958	8.813	-1.499
ATOM	2113	H	VAL	135	1.288	9.467	-2.167
ATOM	2114	CA	VAL	135	0.076	7.724	-1.944
ATOM	2115	HA	VAL	135	-0.734	7.639	-1.240
ATOM	2116	CB	VAL	135	-0.541	8.019	-3.313
ATOM	2117	HB	VAL	135	0.200	8.173	-3.993
ATOM	2118	CG1	VAL	135	-1.379	6.948	-3.819
ATOM	2119	HG11	VAL	135	-1.511	6.642	-3.924
ATOM	2120	HG12	VAL	135	-1.651	6.705	-3.906
ATOM	2121	HG13	VAL	135	-1.580	6.713	-4.019
ATOM	2122	CG2	VAL	135	-1.384	9.209	-3.313
ATOM	2123	HG21	VAL	135	-1.595	9.505	-3.310
ATOM	2124	HG22	VAL	135	-1.572	9.503	-3.304
ATOM	2125	HG23	VAL	135	-1.597	9.502	-3.339
ATOM	2126	C	VAL	135	0.787	6.378	-1.923
ATOM	2127	O	VAL	135	0.240	5.419	-1.410
ATOM	2128	N	VAL	136	2.021	6.292	-2.397
ATOM	2129	H	VAL	136	2.419	7.095	-2.827
ATOM	2130	CA	VAL	136	2.802	5.049	-2.367
ATOM	2131	HA	VAL	136	2.165	4.250	-2.707
ATOM	2132	CB	VAL	136	3.983	5.110	-3.333
ATOM	2133	HB	VAL	136	4.563	5.710	-3.088
ATOM	2134	CG1	VAL	136	4.654	4.045	-3.491
ATOM	2135	HG11	VAL	136	4.711	3.742	-3.519
ATOM	2136	HG12	VAL	136	4.895	3.831	-3.629
ATOM	2137	HG13	VAL	136	4.868	3.786	-3.439
ATOM	2138	CG2	VAL	136	3.737	5.397	-4.557
ATOM	2139	HG21	VAL	136	3.737	5.502	-4.883
ATOM	2140	HG22	VAL	136	3.680	5.418	-4.875
ATOM	2141	HG23	VAL	136	3.621	5.489	-4.824
ATOM	2142	C	VAL	136	3.222	4.669	-0.950
ATOM	2143	O	VAL	136	3.235	3.497	-0.622
ATOM	2144	N	ALA	137	3.464	5.629	-0.067
ATOM	2145	H	ALA	137	3.493	6.569	-0.387
ATOM	2146	CA	ALA	137	3.696	5.373	1.349
ATOM	2147	HA	ALA	137	4.493	4.656	1.437
ATOM	2148	CB	ALA	137	4.148	6.658	2.016
ATOM	2149	HB1	ALA	137	4.242	6.944	2.230
ATOM	2150	HB2	ALA	137	4.317	6.959	2.166
ATOM	2151	HB3	ALA	137	4.225	6.994	2.147
ATOM	2152	C	ALA	137	2.477	4.769	2.055
ATOM	2153	O	ALA	137	2.629	3.862	2.853
ATOM	2154	N	LEU	138	1.268	5.206	1.727
ATOM	2155	H	LEU	138	1.204	5.964	1.090
ATOM	2156	CA	LEU	138	0.031	4.624	2.243
ATOM	2157	HA	LEU	138	0.113	4.579	3.313
ATOM	2158	CB	LEU	138	-1.134	5.537	1.882
ATOM	2159	HB2	LEU	138	-0.916	6.524	2.221
ATOM	2160	HB3	LEU	138	-1.215	5.581	0.824
ATOM	2161	CG	LEU	138	-2.479	5.115	2.446
ATOM	2162	HG	LEU	138	-2.705	4.257	2.170
ATOM	2163	CD1	LEU	138	-2.584	5.109	3.766
ATOM	2164	HD11	LEU	138	-2.575	5.090	4.104
ATOM	2165	HD12	LEU	138	-2.625	5.156	4.069
ATOM	2166	HD13	LEU	138	-2.643	5.060	4.092
ATOM	2167	CD2	LEU	138	-3.498	5.883	2.049
ATOM	2168	HD21	LEU	138	-3.784	6.045	1.994
ATOM	2169	HD22	LEU	138	-3.706	6.094	1.943
ATOM	2170	HD23	LEU	138	-3.752	6.054	1.917
ATOM	2171	C	LEU	138	-0.188	3.193	1.755

ATOM	2172	O	LEU	138	-0.619	2.352	2.522
ATOM	2173	N	LEU	139	0.154	2.893	0.511
ATOM	2174	H	LEU	139	0.476	3.633	-0.069
ATOM	2175	CA	LEU	139	0.110	1.543	-0.037
ATOM	2176	HA	LEU	139	-0.862	1.130	0.163
ATOM	2177	CB	LEU	139	0.317	1.605	-1.548
ATOM	2178	HB2	LEU	139	0.436	2.277	-1.868
ATOM	2179	HB3	LEU	139	0.915	1.256	-1.781
ATOM	2180	CG	LEU	139	-0.390	1.239	-2.352
ATOM	2181	HG	LEU	139	-0.315	1.178	-1.971
ATOM	2182	CD1	LEU	139	-0.989	1.245	-3.026
ATOM	2183	HD11	LEU	139	-1.092	1.253	-3.204
ATOM	2184	HD12	LEU	139	-1.181	1.198	-3.220
ATOM	2185	HD13	LEU	139	-1.130	1.290	-3.143
ATOM	2186	CD2	LEU	139	-0.608	0.954	-3.072
ATOM	2187	HD21	LEU	139	-0.597	0.897	-3.193
ATOM	2188	HD22	LEU	139	-0.678	0.858	-3.253
ATOM	2189	HD23	LEU	139	-0.707	0.895	-3.293
ATOM	2190	C	LEU	139	1.118	0.621	0.642
ATOM	2191	O	LEU	139	0.781	-0.495	0.978
ATOM	2192	N	GLY	140	2.317	1.106	0.923
ATOM	2193	H	GLY	140	2.535	2.014	0.591
ATOM	2194	CA	GLY	140	3.338	0.392	1.668
ATOM	2195	HA2	GLY	140	3.557	-0.530	1.176
ATOM	2196	HA3	GLY	140	4.225	0.986	1.683
ATOM	2197	C	GLY	140	2.954	0.086	3.106
ATOM	2198	O	GLY	140	3.163	-1.014	3.571
ATOM	2199	N	PHE	141	2.315	1.016	3.795
ATOM	2200	H	PHE	141	2.206	1.909	3.384
ATOM	2201	CA	PHE	141	1.750	0.777	5.116
ATOM	2202	HA	PHE	141	2.503	0.306	5.723
ATOM	2203	CB	PHE	141	1.388	2.100	5.767
ATOM	2204	HB2	PHE	141	2.205	2.759	5.684
ATOM	2205	HB3	PHE	141	0.591	2.542	5.247
ATOM	2206	CG	PHE	141	1.027	2.009	7.196
ATOM	2207	CD1	PHE	141	0.977	1.984	7.851
ATOM	2208	HD1	PHE	141	1.191	2.039	7.347
ATOM	2209	CE1	PHE	141	0.648	1.882	9.163
ATOM	2210	HE1	PHE	141	0.610	1.864	9.656
ATOM	2211	CZ	PHE	141	0.368	1.810	9.831
ATOM	2212	HZ	PHE	141	0.120	1.738	10.835
ATOM	2213	CE2	PHE	141	0.418	1.839	9.186
ATOM	2214	HE2	PHE	141	0.204	1.786	9.696
ATOM	2215	CD2	PHE	141	0.746	1.939	7.873
ATOM	2216	HD2	PHE	141	0.783	1.958	7.387
ATOM	2217	C	PHE	141	0.561	-0.177	5.064
ATOM	2218	O	PHE	141	0.459	-1.063	5.888
ATOM	2219	N	GLY	142	-0.294	-0.061	4.057
ATOM	2220	H	GLY	142	-0.167	0.696	3.429
ATOM	2221	CA	GLY	142	-1.400	-0.968	3.804
ATOM	2222	HA2	GLY	142	-2.081	-0.936	4.630
ATOM	2223	HA3	GLY	142	-1.914	-0.634	2.925
ATOM	2224	C	GLY	142	-0.972	-2.410	3.584
ATOM	2225	O	GLY	142	-1.595	-3.305	4.114
ATOM	2226	N	TYR	143	0.128	-2.643	2.883
ATOM	2227	H	TYR	143	0.563	-1.870	2.439
ATOM	2228	CA	TYR	143	0.744	-3.958	2.731
ATOM	2229	HA	TYR	143	0.010	-4.635	2.332
ATOM	2230	CB	TYR	143	1.892	-3.868	1.735
ATOM	2231	HB2	TYR	143	1.477	-3.741	0.761
ATOM	2232	HB3	TYR	143	2.465	-2.993	1.947
ATOM	2233	CG	TYR	143	2.828	-5.049	1.703
ATOM	2234	CD1	TYR	143	2.388	-6.283	1.307
ATOM	2235	HD1	TYR	143	1.387	-6.391	1.034
ATOM	2236	CE1	TYR	143	3.246	-7.378	1.281
ATOM	2237	HE1	TYR	143	2.911	-8.323	0.979
ATOM	2238	CZ	TYR	143	4.553	-7.248	1.667
ATOM	2239	OH	TYR	143	5.371	-8.310	1.656
ATOM	2240	HH	TYR	143	6.216	-8.121	1.984
ATOM	2241	CE2	TYR	143	5.000	-6.012	2.065
ATOM	2242	HE2	TYR	143	6.002	-5.906	2.342
ATOM	2243	CD2	TYR	143	4.139	-4.917	2.080
ATOM	2244	HD2	TYR	143	4.488	-3.976	2.377
ATOM	2245	C	TYR	143	1.199	-4.540	4.065
ATOM	2246	O	TYR	143	0.859	-5.664	4.382
ATOM	2247	N	ARG	144	1.900	-3.771	4.886
ATOM	2248	H	ARG	144	2.125	-2.856	4.578
ATOM	2249	CA	ARG	144	2.354	-4.213	6.204
ATOM	2250	HA	ARG	144	2.826	-5.174	6.091
ATOM	2251	CB	ARG	144	3.370	-3.230	6.771
ATOM	2252	HB2	ARG	144	3.047	-2.303	6.681
ATOM	2253	HB3	ARG	144	3.494	-3.381	7.738
ATOM	2254	CG	ARG	144	4.668	-3.268	6.207
ATOM	2255	HG2	ARG	144	4.605	-3.123	5.364
ATOM	2256	HG3	ARG	144	5.134	-2.613	6.537
ATOM	2257	CD	ARG	144	5.446	-4.354	6.358
ATOM	2258	HD2	ARG	144	5.517	-4.482	7.246
ATOM	2259	HD3	ARG	144	4.956	-5.038	6.029
ATOM	2260	NE	ARG	144	6.735	-4.322	5.777
ATOM	2261	HE	ARG	144	7.182	-3.580	5.739
ATOM	2262	CZ	ARG	144	7.371	-5.163	5.257
ATOM	2263	NH1	ARG	144	6.966	-6.198	5.245
ATOM	2264	HH11	ARG	144	6.207	-6.428	5.734
ATOM	2265	HH12	ARG	144	7.475	-6.779	4.779
ATOM	2266	NH2	ARG	144	8.453	-4.976	4.713
ATOM	2267	HH21	ARG	144	8.842	-4.216	4.748
ATOM	2268	HH22	ARG	144	8.910	-5.615	4.303
ATOM	2269	C	ARG	144	1.206	-4.460	7.167
ATOM	2270	O	ARG	144	1.257	-5.418	7.903
ATOM	2271	N	LEU	145	0.150	-3.671	7.119
ATOM	2272	H	LEU	145	0.199	-2.884	6.522
ATOM	2273	CA	LEU	145	-1.069	-3.887	7.876
ATOM	2274	HA	LEU	145	-0.802	-4.001	8.908
ATOM	2275	CB	LEU	145	-1.953	-2.652	7.741
ATOM	2276	HB2	LEU	145	-1.408	-1.811	8.047

ATOM	2277	HB3	LEU	145	-2.184	-2.512	6.730
ATOM	2278	CG	LEU	145	-3.238	-2.678	8.504
ATOM	2279	HG	LEU	145	-3.647	-3.393	8.366
ATOM	2280	CD1	LEU	145	-3.199	-2.574	9.717
ATOM	2281	HD11	LEU	145	-3.206	-2.495	10.029
ATOM	2282	HD12	LEU	145	-3.235	-2.577	9.996
ATOM	2283	HD13	LEU	145	-3.141	-2.585	10.016
ATOM	2284	CD2	LEU	145	-4.073	-1.796	8.241
ATOM	2285	HD21	LEU	145	-4.296	-1.557	8.213
ATOM	2286	HD22	LEU	145	-4.250	-1.603	8.138
ATOM	2287	HD23	LEU	145	-4.291	-1.595	8.180
ATOM	2288	C	LEU	145	-1.779	-5.165	7.455
ATOM	2289	O	LEU	145	-2.129	-5.961	8.294
ATOM	2290	N	ALA	146	-1.936	-5.402	6.170
ATOM	2291	H	ALA	146	-1.633	-4.715	5.527
ATOM	2292	CA	ALA	146	-2.556	-6.595	5.642
ATOM	2293	HA	ALA	146	-3.527	-6.696	6.079
ATOM	2294	CB	ALA	146	-2.730	-6.429	4.153
ATOM	2295	HB1	ALA	146	-2.777	-6.371	3.801
ATOM	2296	HB2	ALA	146	-2.758	-6.399	3.781
ATOM	2297	HB3	ALA	146	-2.792	-6.403	3.797
ATOM	2298	C	ALA	146	-1.784	-7.861	5.983
ATOM	2299	O	ALA	146	-2.361	-8.835	6.371
ATOM	2300	N	LEU	147	-0.480	-7.835	5.914
ATOM	2301	H	LEU	147	-0.063	-7.022	5.556
ATOM	2302	CA	LEU	147	0.366	-8.952	6.279
ATOM	2303	HA	LEU	147	-0.052	-9.830	5.848
ATOM	2304	CB	LEU	147	1.738	-8.749	5.691
ATOM	2305	HB2	LEU	147	1.851	-8.128	5.177
ATOM	2306	HB3	LEU	147	2.258	-8.589	6.235
ATOM	2307	CG	LEU	147	2.308	-9.567	5.068
ATOM	2308	HG	LEU	147	2.339	-9.563	5.392
ATOM	2309	CD1	LEU	147	2.421	-10.321	4.495
ATOM	2310	HD11	LEU	147	2.451	-10.556	4.358
ATOM	2311	HD12	LEU	147	2.475	-10.483	4.392
ATOM	2312	HD13	LEU	147	2.425	-10.484	4.323
ATOM	2313	CD2	LEU	147	2.800	-9.641	4.544
ATOM	2314	HD21	LEU	147	2.897	-9.678	4.357
ATOM	2315	HD22	LEU	147	2.911	-9.587	4.448
ATOM	2316	HD23	LEU	147	2.955	-9.711	4.447
ATOM	2317	C	LEU	147	0.403	-9.201	7.772
ATOM	2318	O	LEU	147	0.494	-10.310	8.173
ATOM	2319	N	HIP	148	0.255	-8.203	8.603
ATOM	2320	H	HIP	148	0.202	-7.320	8.218
ATOM	2321	CA	HIP	148	0.223	-8.326	10.044
ATOM	2322	HA	HIP	148	1.071	-8.851	10.326
ATOM	2323	CB	HIP	148	0.278	-6.989	10.686
ATOM	2324	HB2	HIP	148	0.920	-6.432	10.263
ATOM	2325	HB3	HIP	148	-0.529	-6.546	10.597
ATOM	2326	CG	HIP	148	0.573	-6.947	11.989
ATOM	2327	ND1	HIP	148	1.045	-6.998	12.681
ATOM	2328	HD1	HIP	148	1.247	-7.087	12.411
ATOM	2329	CE1	HIP	148	1.192	-6.917	13.784
ATOM	2330	HE1	HIP	148	1.544	-6.932	14.521
ATOM	2331	NE2	HIP	148	0.824	-6.818	13.812
ATOM	2332	HE2	HIP	148	0.840	-6.748	14.524
ATOM	2333	CD2	HIP	148	0.435	-6.833	12.695
ATOM	2334	HD2	HIP	148	0.091	-6.768	12.429
ATOM	2335	C	HIP	148	-0.923	-9.107	10.552
ATOM	2336	O	HIP	148	-0.787	-9.834	11.444
ATOM	2337	N	VAL	149	-2.031	-9.014	9.967
ATOM	2338	H	VAL	149	-2.089	-8.390	9.255
ATOM	2339	CA	VAL	149	-3.164	-9.792	10.316
ATOM	2340	HA	VAL	149	-3.125	-9.948	11.334
ATOM	2341	CB	VAL	149	-4.392	-9.075	10.066
ATOM	2342	HB	VAL	149	-4.776	-9.417	9.901
ATOM	2343	CG1	VAL	149	-4.910	-8.576	10.654
ATOM	2344	HG11	VAL	149	-4.965	-8.460	10.801
ATOM	2345	HG12	VAL	149	-5.110	-8.397	10.781
ATOM	2346	HG13	VAL	149	-5.049	-8.507	10.810
ATOM	2347	CG2	VAL	149	-4.671	-8.370	9.494
ATOM	2348	HG21	VAL	149	-4.770	-8.234	9.318
ATOM	2349	HG22	VAL	149	-4.802	-8.175	9.392
ATOM	2350	HG23	VAL	149	-4.662	-8.179	9.355
ATOM	2351	C	VAL	149	-3.179	-11.153	9.692
ATOM	2352	O	VAL	149	-3.601	-12.069	10.289
ATOM	2353	N	TYR	150	-2.641	-11.319	8.538
ATOM	2354	H	TYR	150	-2.322	-10.537	8.092
ATOM	2355	CA	TYR	150	-2.519	-12.559	7.857
ATOM	2356	HA	TYR	150	-3.470	-12.979	7.774
ATOM	2357	CB	TYR	150	-1.993	-12.302	6.480
ATOM	2358	HB2	TYR	150	-2.567	-11.643	6.046
ATOM	2359	HB3	TYR	150	-1.098	-11.898	6.518
ATOM	2360	CG	TYR	150	-1.887	-13.377	5.596
ATOM	2361	CD1	TYR	150	-1.012	-14.107	5.410
ATOM	2362	HD1	TYR	150	-0.413	-13.916	5.899
ATOM	2363	CE1	TYR	150	-0.916	-15.093	4.584
ATOM	2364	HE1	TYR	150	-0.250	-15.651	4.446
ATOM	2365	CZ	TYR	150	-1.691	-15.350	3.934
ATOM	2366	OH	TYR	150	-1.610	-16.297	3.144
ATOM	2367	HH	TYR	150	-1.044	-16.763	3.083
ATOM	2368	CE2	TYR	150	-2.561	-14.612	4.109
ATOM	2369	HE2	TYR	150	-3.146	-14.811	3.605
ATOM	2370	CD2	TYR	150	-2.659	-13.629	4.938
ATOM	2371	HD2	TYR	150	-3.326	-13.069	5.068
ATOM	2372	C	TYR	150	-1.686	-13.534	8.593
ATOM	2373	O	TYR	150	-1.987	-14.638	8.681
ATOM	2374	N	GLN	151	-0.682	-13.123	9.192
ATOM	2375	H	GLN	151	-0.471	-12.218	9.062
ATOM	2376	CA	GLN	151	0.160	-13.914	9.992
ATOM	2377	HA	GLN	151	0.361	-14.784	9.510
ATOM	2378	CB	GLN	151	1.398	-13.233	10.169
ATOM	2379	HB2	GLN	151	1.321	-12.449	10.334
ATOM	2380	HB3	GLN	151	1.824	-13.535	10.783
ATOM	2381	CG	GLN	151	2.190	-13.221	9.315

ATOM	2382	HG2	GLN	151	2.326	-13.885	9.251
ATOM	2383	HG3	GLN	151	1.892	-13.056	8.737
ATOM	2384	CD	GLN	151	3.221	-12.554	9.308
ATOM	2385	OE1	GLN	151	3.334	-11.907	9.721
ATOM	2386	NE2	GLN	151	4.014	-12.682	8.833
ATOM	2387	HE21	GLN	151	4.690	-12.254	8.828
ATOM	2388	HE22	GLN	151	3.949	-13.218	8.497
ATOM	2389	C	GLN	151	-0.416	-14.304	11.273
ATOM	2390	O	GLN	151	0.017	-15.173	11.872
ATOM	2391	N	HIP	152	-1.413	-13.701	11.686
ATOM	2392	H	HIP	152	-1.698	-12.985	11.161
ATOM	2393	CA	HIP	152	-2.135	-14.032	12.827
ATOM	2394	HA	HIP	152	-1.620	-14.682	13.381
ATOM	2395	CB	HIP	152	-2.302	-12.910	13.602
ATOM	2396	HB2	HIP	152	-2.137	-12.244	13.324
ATOM	2397	HB3	HIP	152	-2.941	-12.806	13.813
ATOM	2398	CG	HIP	152	-1.843	-12.783	14.485
ATOM	2399	ND1	HIP	152	-1.536	-12.829	15.064
ATOM	2400	HD1	HIP	152	-1.585	-12.950	14.975
ATOM	2401	CE1	HIP	152	-1.162	-12.692	15.768
ATOM	2402	HE1	HIP	152	-0.863	-12.695	16.330
ATOM	2403	NE2	HIP	152	-1.222	-12.559	15.654
ATOM	2404	HE2	HIP	152	-0.994	-12.448	16.079
ATOM	2405	CD2	HIP	152	-1.646	-12.613	14.855
ATOM	2406	HD2	HIP	152	-1.791	-12.543	14.571
ATOM	2407	C	HIP	152	-3.342	-14.679	12.570
ATOM	2408	O	HIP	152	-4.092	-14.757	13.236
ATOM	2409	N	GLY	153	-3.541	-15.141	11.602
ATOM	2410	H	GLY	153	-2.894	-15.044	11.093
ATOM	2411	CA	GLY	153	-4.593	-15.840	11.258
ATOM	2412	HA2	GLY	153	-4.374	-16.337	10.865
ATOM	2413	HA3	GLY	153	-4.817	-16.120	11.807
ATOM	2414	C	GLY	153	-5.695	-15.588	10.666
ATOM	2415	O	GLY	153	-6.272	-16.300	10.460
ATOM	2416	N	LEU	154	-6.002	-14.594	10.380
ATOM	2417	H	LEU	154	-5.478	-14.052	10.551
ATOM	2418	CA	LEU	154	-7.054	-14.227	9.835
ATOM	2419	HA	LEU	154	-7.650	-14.899	10.020
ATOM	2420	CB	LEU	154	-7.466	-13.241	10.444
ATOM	2421	HB2	LEU	154	-7.031	-12.909	10.605
ATOM	2422	HB3	LEU	154	-7.810	-12.789	10.086
ATOM	2423	CG	LEU	154	-8.003	-13.257	11.295
ATOM	2424	HG	LEU	154	-7.687	-13.398	11.286
ATOM	2425	CD1	LEU	154	-8.357	-12.975	11.743
ATOM	2426	HD11	LEU	154	-8.410	-12.910	11.899
ATOM	2427	HD12	LEU	154	-8.485	-12.837	11.810
ATOM	2428	HD13	LEU	154	-8.435	-12.973	11.848
ATOM	2429	CD2	LEU	154	-8.636	-13.318	11.750
ATOM	2430	HD21	LEU	154	-8.767	-13.354	11.904
ATOM	2431	HD22	LEU	154	-8.810	-13.346	11.876
ATOM	2432	HD23	LEU	154	-8.795	-13.302	11.811
ATOM	2433	C	LEU	154	-6.986	-13.992	8.438
ATOM	2434	O	LEU	154	-7.034	-12.996	8.003
ATOM	2435	N	THR	155	-6.859	-14.919	7.717
ATOM	2436	H	THR	155	-6.840	-15.712	8.119
ATOM	2437	CA	THR	155	-6.677	-14.859	6.372
ATOM	2438	HA	THR	155	-5.937	-14.249	6.195
ATOM	2439	CB	THR	155	-6.306	-16.074	5.899
ATOM	2440	HB	THR	155	-6.418	-16.139	5.166
ATOM	2441	CG2	THR	155	-5.309	-16.397	6.024
ATOM	2442	HG21	THR	155	-5.087	-16.488	6.028
ATOM	2443	HG22	THR	155	-5.042	-16.449	6.045
ATOM	2444	HG23	THR	155	-5.063	-16.493	6.070
ATOM	2445	OG1	THR	155	-6.728	-16.866	6.276
ATOM	2446	HG1	THR	155	-6.617	-17.480	5.975
ATOM	2447	C	THR	155	-7.783	-14.377	5.619
ATOM	2448	O	THR	155	-7.726	-13.753	4.723
ATOM	2449	N	GLY	156	-8.792	-14.589	6.001
ATOM	2450	H	GLY	156	-8.780	-15.119	6.728
ATOM	2451	CA	GLY	156	-9.912	-14.091	5.433
ATOM	2452	HA2	GLY	156	-9.919	-14.320	4.458
ATOM	2453	HA3	GLY	156	-10.691	-14.550	5.872
ATOM	2454	C	GLY	156	-10.077	-12.662	5.552
ATOM	2455	O	GLY	156	-10.795	-12.108	4.871
ATOM	2456	N	PHE	157	-9.390	-12.047	6.379
ATOM	2457	H	PHE	157	-8.822	-12.554	6.914
ATOM	2458	CA	PHE	157	-9.431	-10.673	6.578
ATOM	2459	HA	PHE	157	-10.394	-10.363	6.490
ATOM	2460	CB	PHE	157	-9.019	-10.439	7.939
ATOM	2461	HB2	PHE	157	-9.115	-11.022	8.488
ATOM	2462	HB3	PHE	157	-8.279	-10.325	7.973
ATOM	2463	CG	PHE	157	-9.442	-9.609	8.564
ATOM	2464	CD1	PHE	157	-9.359	-9.185	8.735
ATOM	2465	HD1	PHE	157	-9.001	-9.448	8.409
ATOM	2466	CE1	PHE	157	-9.746	-8.422	9.329
ATOM	2467	HE1	PHE	157	-9.680	-8.102	9.455
ATOM	2468	CZ	PHE	157	-10.220	-8.077	9.753
ATOM	2469	HZ	PHE	157	-10.517	-7.492	10.203
ATOM	2470	CE2	PHE	157	-10.308	-8.496	9.586
ATOM	2471	HE2	PHE	157	-10.671	-8.232	9.913
ATOM	2472	CD2	PHE	157	-9.919	-9.260	8.996
ATOM	2473	HD2	PHE	157	-9.989	-9.578	8.875
ATOM	2474	C	PHE	157	-8.668	-9.868	5.580
ATOM	2475	O	PHE	157	-8.903	-8.702	5.448
ATOM	2476	N	LEU	158	-7.797	-10.471	4.828
ATOM	2477	H	LEU	158	-7.650	-11.423	4.972
ATOM	2478	CA	LEU	158	-7.056	-9.818	3.807
ATOM	2479	HA	LEU	158	-6.510	-9.046	4.254
ATOM	2480	CB	LEU	158	-6.082	-10.809	3.230
ATOM	2481	HB2	LEU	158	-5.602	-11.246	3.892
ATOM	2482	HB3	LEU	158	-6.533	-11.462	2.793
ATOM	2483	CG	LEU	158	-5.139	-10.411	2.368
ATOM	2484	HG	LEU	158	-5.511	-10.083	1.913
ATOM	2485	CD1	LEU	158	-4.293	-9.832	2.575
ATOM	2486	HD11	LEU	158	-4.103	-9.660	2.658

ATOM	2487	HD12	LEU	158	-4.077	-9.730	2.653
ATOM	2488	HD13	LEU	158	-4.083	-9.677	2.550
ATOM	2489	CD2	LEU	158	-4.477	-11.078	1.871
ATOM	2490	HD21	LEU	158	-4.300	-11.225	1.776
ATOM	2491	HD22	LEU	158	-4.349	-11.277	1.753
ATOM	2492	HD23	LEU	158	-4.300	-11.219	1.711
ATOM	2493	C	LEU	158	-7.947	-9.168	2.778
ATOM	2494	O	LEU	158	-7.695	-8.080	2.364
ATOM	2495	N	GLY	159	-9.026	-9.781	2.418
ATOM	2496	H	GLY	159	-9.177	-10.669	2.779
ATOM	2497	CA	GLY	159	-10.031	-9.211	1.566
ATOM	2498	HA2	GLY	159	-9.597	-8.920	0.662
ATOM	2499	HA3	GLY	159	-10.743	-9.947	1.362
ATOM	2500	C	GLY	159	-10.748	-8.026	2.145
ATOM	2501	O	GLY	159	-11.002	-7.084	1.479
ATOM	2502	N	GLN	160	-11.004	-8.020	3.398
ATOM	2503	H	GLN	160	-10.754	-8.808	3.896
ATOM	2504	CA	GLN	160	-11.624	-6.920	4.086
ATOM	2505	HA	GLN	160	-12.463	-6.594	3.528
ATOM	2506	CB	GLN	160	-12.106	-7.370	5.414
ATOM	2507	HB2	GLN	160	-11.751	-7.912	5.766
ATOM	2508	HB3	GLN	160	-12.101	-6.879	5.943
ATOM	2509	CG	GLN	160	-13.088	-7.735	5.592
ATOM	2510	HG2	GLN	160	-13.238	-7.607	5.433
ATOM	2511	HG3	GLN	160	-13.218	-7.989	5.471
ATOM	2512	CD	GLN	160	-13.709	-7.938	6.170
ATOM	2513	OE1	GLN	160	-13.669	-7.953	6.398
ATOM	2514	NE2	GLN	160	-14.309	-8.102	6.428
ATOM	2515	HE21	GLN	160	-14.713	-8.232	6.806
ATOM	2516	HE22	GLN	160	-14.368	-8.097	6.249
ATOM	2517	C	GLN	160	-10.724	-5.736	4.207
ATOM	2518	O	GLN	160	-11.160	-4.633	3.990
ATOM	2519	N	VAL	161	-9.461	-5.947	4.467
ATOM	2520	H	VAL	161	-9.171	-6.863	4.677
ATOM	2521	CA	VAL	161	-8.488	-4.896	4.474
ATOM	2522	HA	VAL	161	-8.874	-4.095	5.055
ATOM	2523	CB	VAL	161	-7.201	-5.353	5.110
ATOM	2524	HB	VAL	161	-6.998	-6.064	4.904
ATOM	2525	CG1	VAL	161	-6.234	-4.790	4.956
ATOM	2526	HG11	VAL	161	-5.980	-4.653	4.927
ATOM	2527	HG12	VAL	161	-5.970	-4.677	4.909
ATOM	2528	HG13	VAL	161	-6.033	-4.639	4.924
ATOM	2529	CG2	VAL	161	-7.107	-5.422	6.257
ATOM	2530	HG21	VAL	161	-7.108	-5.413	6.555
ATOM	2531	HG22	VAL	161	-7.075	-5.469	6.546
ATOM	2532	HG23	VAL	161	-7.061	-5.448	6.518
ATOM	2533	C	VAL	161	-8.275	-4.335	3.112
ATOM	2534	O	VAL	161	-8.187	-3.149	2.968
ATOM	2535	N	THR	162	-8.279	-5.150	2.099
ATOM	2536	H	THR	162	-8.340	-6.108	2.279
ATOM	2537	CA	THR	162	-8.210	-4.710	0.735
ATOM	2538	HA	THR	162	-7.336	-4.138	0.612
ATOM	2539	CB	THR	162	-8.115	-5.884	-0.195
ATOM	2540	HB	THR	162	-8.874	-6.362	-0.183
ATOM	2541	CG2	THR	162	-7.896	-5.615	-1.425
ATOM	2542	HG21	THR	162	-7.847	-5.551	-1.725
ATOM	2543	HG22	THR	162	-7.844	-5.555	-1.725
ATOM	2544	HG23	THR	162	-7.852	-5.556	-1.728
ATOM	2545	OG1	THR	162	-7.230	-6.688	0.043
ATOM	2546	HG1	THR	162	-7.358	-7.167	0.671
ATOM	2547	C	THR	162	-9.371	-3.811	0.374
ATOM	2548	O	THR	162	-9.192	-2.783	-0.179
ATOM	2549	N	ARG	163	-10.558	-4.140	0.749
ATOM	2550	H	ARG	163	-10.641	-4.998	1.191
ATOM	2551	CA	ARG	163	-11.739	-3.320	0.533
ATOM	2552	HA	ARG	163	-11.769	-3.024	-0.475
ATOM	2553	CB	ARG	163	-12.950	-4.126	0.809
ATOM	2554	HB2	ARG	163	-12.901	-4.778	1.062
ATOM	2555	HB3	ARG	163	-13.387	-3.901	1.260
ATOM	2556	CG	ARG	163	-13.655	-4.368	0.131
ATOM	2557	HG2	ARG	163	-13.795	-4.164	-0.081
ATOM	2558	HG3	ARG	163	-13.418	-4.435	0.054
ATOM	2559	CD	ARG	163	-14.517	-4.804	-0.158
ATOM	2560	HD2	ARG	163	-14.780	-4.792	-0.074
ATOM	2561	HD3	ARG	163	-14.795	-4.886	-0.360
ATOM	2562	NE	ARG	163	-14.650	-5.122	-0.297
ATOM	2563	HE	ARG	163	-14.583	-4.956	-0.251
ATOM	2564	CZ	ARG	163	-14.868	-5.602	-0.490
ATOM	2565	NH1	ARG	163	-14.999	-5.877	-0.585
ATOM	2566	HH11	ARG	163	-14.958	-5.734	-0.519
ATOM	2567	HH12	ARG	163	-15.175	-6.243	-0.739
ATOM	2568	NH2	ARG	163	-14.956	-5.820	-0.595
ATOM	2569	HH21	ARG	163	-14.871	-5.624	-0.530
ATOM	2570	HH22	ARG	163	-15.134	-6.186	-0.750
ATOM	2571	C	ARG	163	-11.732	-2.038	1.300
ATOM	2572	O	ARG	163	-12.155	-1.042	0.782
ATOM	2573	N	PHE	164	-11.199	-2.028	2.483
ATOM	2574	H	PHE	164	-10.896	-2.885	2.855
ATOM	2575	CA	PHE	164	-11.076	-0.839	3.276
ATOM	2576	HA	PHE	164	-12.025	-0.357	3.329
ATOM	2577	CB	PHE	164	-10.665	-1.230	4.658
ATOM	2578	HB2	PHE	164	-11.306	-1.844	5.054
ATOM	2579	HB3	PHE	164	-9.825	-1.724	4.639
ATOM	2580	CG	PHE	164	-10.527	-0.195	5.553
ATOM	2581	CD1	PHE	164	-9.721	0.288	5.813
ATOM	2582	HD1	PHE	164	-9.196	-0.082	5.391
ATOM	2583	CE1	PHE	164	-9.601	1.260	6.618
ATOM	2584	HE1	PHE	164	-8.988	1.626	6.814
ATOM	2585	CZ	PHE	164	-10.284	1.750	7.170
ATOM	2586	HZ	PHE	164	-10.193	2.492	7.788
ATOM	2587	CE2	PHE	164	-11.086	1.268	6.921
ATOM	2588	HE2	PHE	164	-11.607	1.641	7.348
ATOM	2589	CD2	PHE	164	-11.209	0.299	6.114
ATOM	2590	HD2	PHE	164	-11.826	-0.065	5.923
ATOM	2591	C	PHE	164	-10.144	0.171	2.688

ATOM	2592	O	PHE	164	-10.460	1.339	2.676
ATOM	2593	N	VAL	165	-9.022	-0.254	2.155
ATOM	2594	H	VAL	165	-8.807	-1.217	2.203
ATOM	2595	CA	VAL	165	-8.078	0.632	1.522
ATOM	2596	HA	VAL	165	-7.910	1.451	2.172
ATOM	2597	CB	VAL	165	-6.745	-0.061	1.302
ATOM	2598	HB	VAL	165	-6.741	-0.550	0.823
ATOM	2599	CG1	VAL	165	-5.855	0.421	1.002
ATOM	2600	HG11	VAL	165	-5.651	0.554	0.940
ATOM	2601	HG12	VAL	165	-5.618	0.526	0.934
ATOM	2602	HG13	VAL	165	-5.637	0.526	0.904
ATOM	2603	CG2	VAL	165	-6.224	-0.587	2.047
ATOM	2604	HG21	VAL	165	-6.105	-0.715	2.258
ATOM	2605	HG22	VAL	165	-6.131	-0.746	2.216
ATOM	2606	HG23	VAL	165	-6.046	-0.697	2.210
ATOM	2607	C	VAL	165	-8.632	1.241	0.255
ATOM	2608	O	VAL	165	-8.450	2.384	0.004
ATOM	2609	N	VAL	166	-9.364	0.526	-0.514
ATOM	2610	H	VAL	166	-9.472	-0.403	-0.261
ATOM	2611	CA	VAL	166	-10.012	1.043	-1.706
ATOM	2612	HA	VAL	166	-9.320	1.626	-2.244
ATOM	2613	CB	VAL	166	-10.430	-0.082	-2.589
ATOM	2614	HB	VAL	166	-10.967	-0.479	-2.295
ATOM	2615	CG1	VAL	166	-10.803	0.141	-3.593
ATOM	2616	HG11	VAL	166	-10.951	0.265	-3.800
ATOM	2617	HG12	VAL	166	-10.800	0.231	-3.904
ATOM	2618	HG13	VAL	166	-10.943	0.080	-3.819
ATOM	2619	CG2	VAL	166	-9.730	-0.943	-2.929
ATOM	2620	HG21	VAL	166	-9.573	-1.142	-3.013
ATOM	2621	HG22	VAL	166	-9.558	-1.170	-3.007
ATOM	2622	HG23	VAL	166	-9.556	-1.162	-3.023
ATOM	2623	C	VAL	166	-11.151	1.978	-1.397
ATOM	2624	O	VAL	166	-11.298	2.987	-2.051
ATOM	2625	N	ASP	167	-11.915	1.706	-0.363
ATOM	2626	H	ASP	167	-11.763	0.858	0.125
ATOM	2627	CA	ASP	167	-12.986	2.573	0.092
ATOM	2628	HA	ASP	167	-13.631	2.782	-0.739
ATOM	2629	CB	ASP	167	-13.794	1.842	1.143
ATOM	2630	HB2	ASP	167	-14.096	0.900	0.762
ATOM	2631	HB3	ASP	167	-13.198	1.664	2.001
ATOM	2632	CG	ASP	167	-15.013	2.609	1.533
ATOM	2633	OD1	ASP	167	-15.501	2.908	1.683
ATOM	2634	OD2	ASP	167	-15.487	2.931	1.674
ATOM	2635	C	ASP	167	-12.475	3.910	0.607
ATOM	2636	O	ASP	167	-13.053	4.937	0.298
ATOM	2637	N	PHE	168	-11.355	3.920	1.317
ATOM	2638	H	PHE	168	-10.937	3.052	1.551
ATOM	2639	CA	PHE	168	-10.700	5.144	1.747
ATOM	2640	HA	PHE	168	-11.430	5.764	2.235
ATOM	2641	CB	PHE	168	-9.606	4.828	2.759
ATOM	2642	HB2	PHE	168	-10.005	4.271	3.530
ATOM	2643	HB3	PHE	168	-8.873	4.247	2.325
ATOM	2644	CG	PHE	168	-8.964	5.995	3.344
ATOM	2645	CD1	PHE	168	-9.407	6.563	4.341
ATOM	2646	HD1	PHE	168	-10.183	6.157	4.706
ATOM	2647	CE1	PHE	168	-8.849	7.667	4.853
ATOM	2648	HE1	PHE	168	-9.195	8.100	5.611
ATOM	2649	CZ	PHE	168	-7.850	8.215	4.366
ATOM	2650	HZ	PHE	168	-7.435	9.068	4.753
ATOM	2651	CE2	PHE	168	-7.396	7.651	3.378
ATOM	2652	HE2	PHE	168	-6.628	8.071	3.008
ATOM	2653	CD2	PHE	168	-7.946	6.539	2.871
ATOM	2654	HD2	PHE	168	-7.598	6.114	2.110
ATOM	2655	C	PHE	168	-10.158	5.940	0.566
ATOM	2656	O	PHE	168	-10.355	7.136	0.501
ATOM	2657	N	MET	169	-9.538	5.289	-0.405
ATOM	2658	H	MET	169	-9.415	4.312	-0.304
ATOM	2659	CA	MET	169	-9.052	5.943	-1.615
ATOM	2660	HA	MET	169	-8.395	6.737	-1.319
ATOM	2661	CB	MET	169	-8.263	4.971	-2.475
ATOM	2662	HB2	MET	169	-8.778	4.113	-2.625
ATOM	2663	HB3	MET	169	-8.111	5.381	-3.386
ATOM	2664	CG	MET	169	-6.975	4.611	-1.949
ATOM	2665	HG2	MET	169	-6.819	4.896	-1.427
ATOM	2666	HG3	MET	169	-6.951	4.011	-1.773
ATOM	2667	SD	MET	169	-5.708	4.644	-2.415
ATOM	2668	CE	MET	169	-4.721	4.043	-2.088
ATOM	2669	HE1	MET	169	-4.528	3.911	-2.018
ATOM	2670	HE2	MET	169	-4.520	3.919	-2.040
ATOM	2671	HE3	MET	169	-4.514	3.936	-2.014
ATOM	2672	C	MET	169	-10.177	6.586	-2.419
ATOM	2673	O	MET	169	-10.014	7.682	-2.915
ATOM	2674	N	LEU	170	-11.337	5.954	-2.492
ATOM	2675	H	LEU	170	-11.393	5.047	-2.096
ATOM	2676	CA	LEU	170	-12.533	6.506	-3.111
ATOM	2677	HA	LEU	170	-12.260	6.881	-4.084
ATOM	2678	CB	LEU	170	-13.547	5.381	-3.306
ATOM	2679	HB2	LEU	170	-13.092	4.616	-3.885
ATOM	2680	HB3	LEU	170	-13.776	4.959	-2.360
ATOM	2681	CG	LEU	170	-14.850	5.767	-3.972
ATOM	2682	HG	LEU	170	-15.312	6.416	-3.414
ATOM	2683	CD1	LEU	170	-14.748	6.322	-5.244
ATOM	2684	HD11	LEU	170	-14.713	6.429	-5.565
ATOM	2685	HD12	LEU	170	-14.785	6.474	-5.563
ATOM	2686	HD13	LEU	170	-14.693	6.486	-5.538
ATOM	2687	CD2	LEU	170	-15.701	4.680	-4.121
ATOM	2688	HD21	LEU	170	-15.900	4.423	-4.149
ATOM	2689	HD22	LEU	170	-15.911	4.414	-4.151
ATOM	2690	HD23	LEU	170	-15.926	4.420	-4.166
ATOM	2691	C	LEU	170	-13.094	7.685	-2.319
ATOM	2692	O	LEU	170	-13.269	8.740	-2.866
ATOM	2693	N	HIP	171	-13.334	7.541	-1.033
ATOM	2694	H	HIP	171	-13.143	6.657	-0.638
ATOM	2695	CA	HIP	171	-14.013	8.539	-0.207
ATOM	2696	HA	HIP	171	-14.749	9.025	-0.816

ATOM	2697	CB	HIP	171	-14.761	7.849	0.912
ATOM	2698	HB2	HIP	171	-14.113	7.262	1.484
ATOM	2699	HB3	HIP	171	-15.163	8.569	1.541
ATOM	2700	CG	HIP	171	-15.849	7.012	0.462
ATOM	2701	ND1	HIP	171	-16.072	5.831	0.552
ATOM	2702	HD1	HIP	171	-15.553	5.362	0.947
ATOM	2703	CE1	HIP	171	-17.125	5.404	0.041
ATOM	2704	HE1	HIP	171	-17.540	4.511	-0.015
ATOM	2705	NE2	HIP	171	-17.578	6.277	-0.369
ATOM	2706	HE2	HIP	171	-18.351	6.202	-0.786
ATOM	2707	CD2	HIP	171	-16.793	7.291	-0.110
ATOM	2708	HD2	HIP	171	-16.900	8.143	-0.316
ATOM	2709	C	HIP	171	-13.134	9.675	0.285
ATOM	2710	O	HIP	171	-13.622	10.604	0.747
ATOM	2711	N	HIP	172	-11.851	9.640	0.143
ATOM	2712	H	HIP	172	-11.516	8.816	-0.183
ATOM	2713	CA	HIP	172	-10.906	10.718	0.444
ATOM	2714	HA	HIP	172	-11.463	11.526	0.882
ATOM	2715	CB	HIP	172	-9.902	10.257	1.499
ATOM	2716	HB2	HIP	172	-10.008	9.442	1.769
ATOM	2717	HB3	HIP	172	-9.090	10.254	1.232
ATOM	2718	CG	HIP	172	-9.840	10.866	2.584
ATOM	2719	ND1	HIP	172	-10.236	11.333	3.457
ATOM	2720	HD1	HIP	172	-10.603	11.325	3.479
ATOM	2721	CE1	HIP	172	-10.078	11.825	4.244
ATOM	2722	HE1	HIP	172	-10.327	12.278	5.002
ATOM	2723	NE2	HIP	172	-9.586	11.679	3.899
ATOM	2724	HE2	HIP	172	-9.401	11.986	4.304
ATOM	2725	CD2	HIP	172	-9.430	11.079	2.861
ATOM	2726	HD2	HIP	172	-9.079	10.842	2.345
ATOM	2727	C	HIP	172	-10.273	11.333	-0.800
ATOM	2728	O	HIP	172	-9.189	11.772	-0.769
ATOM	2729	N	CYS	173	-10.939	11.347	-1.906
ATOM	2730	H	CYS	173	-11.826	11.000	-1.842
ATOM	2731	CA	CYS	173	-10.570	11.963	-3.177
ATOM	2732	HA	CYS	173	-11.330	11.691	-3.873
ATOM	2733	CB	CYS	173	-10.665	13.462	-3.064
ATOM	2734	HB2	CYS	173	-10.088	13.822	-2.392
ATOM	2735	HB3	CYS	173	-10.412	13.895	-3.882
ATOM	2736	SG	CYS	173	-12.140	13.961	-2.721
ATOM	2737	HG	CYS	173	-12.182	14.396	-2.608
ATOM	2738	C	CYS	173	-9.276	11.487	-3.840
ATOM	2739	O	CYS	173	-8.822	12.105	-4.767
ATOM	2740	N	ILE	174	-8.677	10.386	-3.418
ATOM	2741	H	ILE	174	-9.101	9.889	-2.695
ATOM	2742	CA	ILE	174	-7.419	9.876	-3.966
ATOM	2743	HA	ILE	174	-6.776	10.716	-4.161
ATOM	2744	CB	ILE	174	-6.689	8.969	-2.963
ATOM	2745	HB	ILE	174	-7.271	8.100	-2.816
ATOM	2746	CG2	ILE	174	-5.361	8.531	-3.512
ATOM	2747	HG21	ILE	174	-5.013	8.438	-3.616
ATOM	2748	HG22	ILE	174	-5.038	8.375	-3.646
ATOM	2749	HG23	ILE	174	-5.051	8.443	-3.677
ATOM	2750	CG1	ILE	174	-6.497	9.625	-1.618
ATOM	2751	HG12	ILE	174	-5.990	10.253	-1.655
ATOM	2752	HG13	ILE	174	-7.189	9.944	-1.330
ATOM	2753	CD1	ILE	174	-6.096	9.041	-0.550
ATOM	2754	HD11	ILE	174	-6.033	8.923	-0.280
ATOM	2755	HD12	ILE	174	-6.003	8.875	-0.296
ATOM	2756	HD13	ILE	174	-5.965	8.924	-0.279
ATOM	2757	C	ILE	174	-7.649	9.186	-5.304
ATOM	2758	O	ILE	174	-6.892	9.396	-6.231
ATOM	2759	N	ALA	175	-8.728	8.430	-5.458
ATOM	2760	H	ALA	175	-9.330	8.301	-4.680
ATOM	2761	CA	ALA	175	-9.098	7.831	-6.729
ATOM	2762	HA	ALA	175	-8.253	7.276	-7.097
ATOM	2763	CB	ALA	175	-10.229	6.842	-6.504
ATOM	2764	HB1	ALA	175	-10.429	6.528	-6.439
ATOM	2765	HB2	ALA	175	-10.533	6.659	-6.378
ATOM	2766	HB3	ALA	175	-10.543	6.610	-6.550
ATOM	2767	C	ALA	175	-9.436	8.887	-7.789
ATOM	2768	O	ALA	175	-9.075	8.724	-8.935
ATOM	2769	N	ARG	176	-10.027	10.014	-7.404
ATOM	2770	H	ARG	176	-10.369	10.043	-6.477
ATOM	2771	CA	ARG	176	-10.233	11.191	-8.257
ATOM	2772	HA	ARG	176	-10.720	10.872	-9.162
ATOM	2773	CB	ARG	176	-11.150	12.175	-7.544
ATOM	2774	HB2	ARG	176	-11.914	11.740	-7.232
ATOM	2775	HB3	ARG	176	-10.735	12.534	-6.799
ATOM	2776	CG	ARG	176	-11.636	13.244	-8.240
ATOM	2777	HG2	ARG	176	-10.922	13.695	-8.533
ATOM	2778	HG3	ARG	176	-12.035	12.914	-8.961
ATOM	2779	CD	ARG	176	-12.546	14.167	-7.558
ATOM	2780	HD2	ARG	176	-12.099	14.537	-6.844
ATOM	2781	HD3	ARG	176	-12.805	14.875	-8.104
ATOM	2782	NE	ARG	176	-13.646	13.654	-7.143
ATOM	2783	HE	ARG	176	-13.786	12.878	-7.408
ATOM	2784	CZ	ARG	176	-14.484	14.079	-6.452
ATOM	2785	NH1	ARG	176	-14.496	15.089	-6.038
ATOM	2786	HH11	ARG	176	-13.860	15.589	-6.245
ATOM	2787	HH12	ARG	176	-15.157	15.363	-5.520
ATOM	2788	NH2	ARG	176	-15.347	13.466	-6.165
ATOM	2789	HH21	ARG	176	-15.335	12.677	-6.480
ATOM	2790	HH22	ARG	176	-15.990	13.771	-5.646
ATOM	2791	C	ARG	176	-8.928	11.841	-8.686
ATOM	2792	O	ARG	176	-8.787	12.182	-9.840
ATOM	2793	N	TRP	177	-7.949	11.944	-7.802
ATOM	2794	H	TRP	177	-8.139	11.668	-6.871
ATOM	2795	CA	TRP	177	-6.622	12.460	-8.118
ATOM	2796	HA	TRP	177	-6.735	13.427	-8.580
ATOM	2797	CB	TRP	177	-5.831	12.649	-6.832
ATOM	2798	HB2	TRP	177	-6.424	13.212	-6.155
ATOM	2799	HB3	TRP	177	-5.652	11.702	-6.378
ATOM	2800	CG	TRP	177	-4.532	13.334	-6.966
ATOM	2801	CD1	TRP	177	-4.353	14.626	-6.985

ATOM	2802	HD1	TRP	177	-5.126	15.320	-6.902
ATOM	2803	NE1	TRP	177	-3.037	14.918	-7.121
ATOM	2804	HE1	TRP	177	-2.683	15.822	-7.152
ATOM	2805	CE2	TRP	177	-2.293	13.821	-7.195
ATOM	2806	CZ2	TRP	177	-0.948	13.616	-7.346
ATOM	2807	HZ2	TRP	177	-0.284	14.423	-7.429
ATOM	2808	CH2	TRP	177	-0.490	12.350	-7.410
ATOM	2809	HH2	TRP	177	0.536	12.180	-7.549
ATOM	2810	CZ3	TRP	177	-1.371	11.308	-7.301
ATOM	2811	HZ3	TRP	177	-1.014	10.341	-7.346
ATOM	2812	CE3	TRP	177	-2.720	11.525	-7.141
ATOM	2813	HE3	TRP	177	-3.388	10.724	-7.054
ATOM	2814	CD2	TRP	177	-3.220	12.787	-7.095
ATOM	2815	C	TRP	177	-5.880	11.577	-9.117
ATOM	2816	O	TRP	177	-5.275	12.082	-10.037
ATOM	2817	N	ILE	178	-5.990	10.262	-9.001
ATOM	2818	H	ILE	178	-6.468	9.913	-8.208
ATOM	2819	CA	ILE	178	-5.435	9.305	-9.958
ATOM	2820	HA	ILE	178	-4.432	9.613	-10.189
ATOM	2821	CB	ILE	178	-5.346	7.908	-9.336
ATOM	2822	HB	ILE	178	-6.219	7.672	-9.028
ATOM	2823	CG2	ILE	178	-4.948	6.912	-10.208
ATOM	2824	HG21	ILE	178	-4.902	6.698	-10.449
ATOM	2825	HG22	ILE	178	-4.785	6.641	-10.409
ATOM	2826	HG23	ILE	178	-4.877	6.647	-10.410
ATOM	2827	CG1	ILE	178	-4.499	7.798	-8.222
ATOM	2828	HG12	ILE	178	-3.979	8.107	-8.185
ATOM	2829	HG13	ILE	178	-4.720	8.038	-7.734
ATOM	2830	CD1	ILE	178	-4.052	6.968	-7.741
ATOM	2831	HD11	ILE	178	-3.940	6.777	-7.604
ATOM	2832	HD12	ILE	178	-3.940	6.752	-7.626
ATOM	2833	HD13	ILE	178	-3.937	6.777	-7.626
ATOM	2834	C	ILE	178	-6.198	9.328	-11.286
ATOM	2835	O	ILE	178	-5.578	9.274	-12.331
ATOM	2836	N	ALA	179	-7.514	9.491	-11.283
ATOM	2837	H	ALA	179	-7.989	9.492	-10.412
ATOM	2838	CA	ALA	179	-8.309	9.654	-12.492
ATOM	2839	HA	ALA	179	-8.121	8.814	-13.138
ATOM	2840	CB	ALA	179	-9.783	9.646	-12.133
ATOM	2841	HB1	ALA	179	-10.137	9.596	-12.035
ATOM	2842	HB2	ALA	179	-10.136	9.685	-12.021
ATOM	2843	HB3	ALA	179	-10.159	9.651	-12.102
ATOM	2844	C	ALA	179	-7.934	10.914	-13.272
ATOM	2845	O	ALA	179	-7.808	10.868	-14.473
ATOM	2846	N	GLN	180	-7.659	12.014	-12.595
ATOM	2847	H	GLN	180	-7.822	12.001	-11.621
ATOM	2848	CA	GLN	180	-7.165	13.250	-13.189
ATOM	2849	HA	GLN	180	-7.770	13.480	-14.043
ATOM	2850	CB	GLN	180	-7.318	14.382	-12.194
ATOM	2851	HB2	GLN	180	-7.079	14.196	-11.436
ATOM	2852	HB3	GLN	180	-6.872	15.048	-12.365
ATOM	2853	CG	GLN	180	-8.392	14.897	-11.995
ATOM	2854	HG2	GLN	180	-8.651	15.168	-12.610
ATOM	2855	HG3	GLN	180	-8.806	14.314	-11.845
ATOM	2856	CD	GLN	180	-8.596	15.842	-11.174
ATOM	2857	OE1	GLN	180	-8.112	16.153	-10.634
ATOM	2858	NE2	GLN	180	-9.325	16.335	-11.043
ATOM	2859	HE21	GLN	180	-9.458	16.958	-10.515
ATOM	2860	HE22	GLN	180	-9.731	16.099	-11.479
ATOM	2861	C	GLN	180	-5.732	13.141	-13.704
ATOM	2862	O	GLN	180	-5.339	13.899	-14.530
ATOM	2863	N	ARG	181	-4.964	12.168	-13.270
ATOM	2864	H	ARG	181	-5.336	11.624	-12.556
ATOM	2865	CA	ARG	181	-3.642	11.802	-13.777
ATOM	2866	HA	ARG	181	-3.206	12.652	-14.249
ATOM	2867	CB	ARG	181	-2.755	11.407	-12.625
ATOM	2868	HB2	ARG	181	-3.143	11.103	-11.930
ATOM	2869	HB3	ARG	181	-2.240	10.805	-12.825
ATOM	2870	CG	ARG	181	-2.015	12.208	-12.118
ATOM	2871	HG2	ARG	181	-1.685	12.282	-12.260
ATOM	2872	HG3	ARG	181	-2.208	12.471	-12.178
ATOM	2873	CD	ARG	181	-1.441	12.538	-11.307
ATOM	2874	HD2	ARG	181	-1.642	12.527	-10.769
ATOM	2875	HD3	ARG	181	-1.107	12.238	-11.278
ATOM	2876	NE	ARG	181	-1.053	13.262	-11.261
ATOM	2877	HE	ARG	181	-0.864	13.269	-11.447
ATOM	2878	CZ	ARG	181	-0.903	13.929	-10.992
ATOM	2879	NH1	ARG	181	-0.547	14.529	-11.000
ATOM	2880	HH11	ARG	181	-0.384	14.484	-11.211
ATOM	2881	HH12	ARG	181	-0.433	15.035	-10.804
ATOM	2882	NH2	ARG	181	-1.097	14.022	-10.716
ATOM	2883	HH21	ARG	181	-1.366	13.575	-10.690
ATOM	2884	HH22	ARG	181	-0.959	14.544	-10.514
ATOM	2885	C	ARG	181	-3.676	10.752	-14.864
ATOM	2886	O	ARG	181	-2.683	10.394	-15.348
ATOM	2887	N	GLY	182	-4.806	10.284	-15.271
ATOM	2888	H	GLY	182	-5.573	10.634	-14.832
ATOM	2889	CA	GLY	182	-5.013	9.348	-16.353
ATOM	2890	HA2	GLY	182	-5.891	9.624	-16.858
ATOM	2891	HA3	GLY	182	-4.215	9.414	-17.042
ATOM	2892	C	GLY	182	-5.168	7.905	-15.966
ATOM	2893	O	GLY	182	-5.115	7.063	-16.818
ATOM	2894	N	GLY	183	-5.351	7.602	-14.706
ATOM	2895	H	GLY	183	-5.361	8.335	-14.056
ATOM	2896	CA	GLY	183	-5.433	6.255	-14.182
ATOM	2897	HA2	GLY	183	-6.056	6.249	-13.324
ATOM	2898	HA3	GLY	183	-5.882	5.622	-14.899
ATOM	2899	C	GLY	183	-4.108	5.658	-13.797
ATOM	2900	O	GLY	183	-3.082	6.257	-13.982
ATOM	2901	N	TRP	184	-4.116	4.463	-13.252
ATOM	2902	H	TRP	184	-4.979	4.003	-13.163
ATOM	2903	CA	TRP	184	-2.947	3.811	-12.705
ATOM	2904	HA	TRP	184	-2.517	4.462	-11.986
ATOM	2905	CB	TRP	184	-3.345	2.540	-11.975
ATOM	2906	HB2	TRP	184	-4.083	2.034	-12.527

ATOM	2907	HB3	TRP	184	-2.509	1.899	-11.923
ATOM	2908	CG	TRP	184	-3.812	2.721	-10.596
ATOM	2909	CD1	TRP	184	-5.066	2.676	-10.190
ATOM	2910	HD1	TRP	184	-5.890	2.500	-10.816
ATOM	2911	NE1	TRP	184	-5.121	2.878	-8.856
ATOM	2912	HE1	TRP	184	-5.955	2.862	-8.337
ATOM	2913	CE2	TRP	184	-3.898	3.059	-8.328
ATOM	2914	CZ2	TRP	184	-3.453	3.293	-7.054
ATOM	2915	HZ2	TRP	184	-4.137	3.374	-6.262
ATOM	2916	CH2	TRP	184	-2.108	3.423	-6.832
ATOM	2917	HH2	TRP	184	-1.748	3.600	-5.862
ATOM	2918	CZ3	TRP	184	-1.231	3.320	-7.883
ATOM	2919	HZ3	TRP	184	-0.203	3.415	-7.705
ATOM	2920	CE3	TRP	184	-1.689	3.096	-9.161
ATOM	2921	HE3	TRP	184	-1.008	3.020	-9.958
ATOM	2922	CD2	TRP	184	-3.035	2.960	-9.419
ATOM	2923	C	TRP	184	-1.862	3.540	-13.712
ATOM	2924	O	TRP	184	-0.737	3.604	-13.374
ATOM	2925	N	VAL	185	-2.167	3.300	-14.949
ATOM	2926	H	VAL	185	-3.103	3.274	-15.168
ATOM	2927	CA	VAL	185	-1.191	3.102	-16.002
ATOM	2928	HA	VAL	185	-0.474	2.430	-15.640
ATOM	2929	CB	VAL	185	-1.803	2.487	-17.207
ATOM	2930	HB	VAL	185	-2.018	2.677	-17.682
ATOM	2931	CG1	VAL	185	-1.560	1.985	-17.744
ATOM	2932	HG11	VAL	185	-1.485	1.796	-17.867
ATOM	2933	HG12	VAL	185	-1.532	1.888	-17.923
ATOM	2934	HG13	VAL	185	-1.493	1.901	-17.854
ATOM	2935	CG2	VAL	185	-2.376	2.050	-17.297
ATOM	2936	HG21	VAL	185	-2.507	1.912	-17.345
ATOM	2937	HG22	VAL	185	-2.515	1.956	-17.320
ATOM	2938	HG23	VAL	185	-2.534	1.957	-17.314
ATOM	2939	C	VAL	185	-0.455	4.358	-16.379
ATOM	2940	O	VAL	185	0.639	4.344	-16.719
ATOM	2941	N	ALA	186	-1.026	5.452	-16.266
ATOM	2942	H	ALA	186	-1.923	5.404	-15.984
ATOM	2943	CA	ALA	186	-0.424	6.724	-16.514
ATOM	2944	HA	ALA	186	0.325	6.614	-17.245
ATOM	2945	CB	ALA	186	-1.452	7.619	-17.069
ATOM	2946	HB1	ALA	186	-1.694	7.879	-17.092
ATOM	2947	HB2	ALA	186	-1.628	7.882	-17.289
ATOM	2948	HB3	ALA	186	-1.772	7.750	-17.227
ATOM	2949	C	ALA	186	0.232	7.318	-15.303
ATOM	2950	O	ALA	186	1.209	7.989	-15.421
ATOM	2951	N	ALA	187	-0.257	7.043	-14.138
ATOM	2952	H	ALA	187	-1.083	6.531	-14.105
ATOM	2953	CA	ALA	187	0.282	7.535	-12.925
ATOM	2954	HA	ALA	187	0.422	8.572	-13.036
ATOM	2955	CB	ALA	187	-0.712	7.301	-11.838
ATOM	2956	HB1	ALA	187	-0.897	7.240	-11.541
ATOM	2957	HB2	ALA	187	-0.975	7.299	-11.581
ATOM	2958	HB3	ALA	187	-0.975	7.203	-11.597
ATOM	2959	C	ALA	187	1.613	6.970	-12.581
ATOM	2960	O	ALA	187	2.384	7.610	-11.995
ATOM	2961	N	LEU	188	1.914	5.807	-12.990
ATOM	2962	H	LEU	188	1.233	5.322	-13.432
ATOM	2963	CA	LEU	188	3.178	5.192	-12.830
ATOM	2964	HA	LEU	188	3.520	5.389	-11.932
ATOM	2965	CB	LEU	188	3.006	3.810	-12.908
ATOM	2966	HB2	LEU	188	2.352	3.535	-12.475
ATOM	2967	HB3	LEU	188	2.822	3.603	-13.648
ATOM	2968	CG	LEU	188	3.911	3.041	-12.597
ATOM	2969	HG	LEU	188	4.454	3.292	-13.066
ATOM	2970	CD1	LEU	188	4.272	2.933	-11.569
ATOM	2971	HD11	LEU	188	4.344	2.910	-11.324
ATOM	2972	HD12	LEU	188	4.382	2.895	-11.333
ATOM	2973	HD13	LEU	188	4.370	2.909	-11.305
ATOM	2974	CD2	LEU	188	3.733	1.963	-12.685
ATOM	2975	HD21	LEU	188	3.682	1.693	-12.729
ATOM	2976	HD22	LEU	188	3.689	1.713	-12.710
ATOM	2977	HD23	LEU	188	3.712	1.697	-12.690
ATOM	2978	C	LEU	188	4.195	5.657	-13.728
ATOM	2979	O	LEU	188	5.238	5.587	-13.486
ATOM	2980	N	ASN	189	3.905	6.162	-14.742
ATOM	2981	H	ASN	189	3.039	6.189	-14.888
ATOM	2982	CA	ASN	189	4.769	6.673	-15.645
ATOM	2983	HA	ASN	189	5.589	6.236	-15.601
ATOM	2984	CB	ASN	189	4.328	6.511	-16.841
ATOM	2985	HB2	ASN	189	4.007	5.799	-16.921
ATOM	2986	HB3	ASN	189	3.726	6.991	-16.992
ATOM	2987	CG	ASN	189	5.116	6.644	-17.751
ATOM	2988	OD1	ASN	189	5.658	6.784	-17.956
ATOM	2989	ND2	ASN	189	5.206	6.597	-18.326
ATOM	2990	HD21	ASN	189	5.720	6.679	-18.923
ATOM	2991	HD22	ASN	189	4.766	6.476	-18.168
ATOM	2992	C	ASN	189	5.048	7.897	-15.469
ATOM	2993	O	ASN	189	5.679	8.402	-15.805
ATOM	2994	N	LEU	190	4.593	8.375	-14.937
ATOM	2995	H	LEU	190	4.083	7.913	-14.690
ATOM	2996	CA	LEU	190	4.776	9.513	-14.697
ATOM	2997	HA	LEU	190	5.052	9.953	-15.109
ATOM	2998	CB	LEU	190	3.985	9.916	-14.465
ATOM	2999	HB2	LEU	190	3.619	9.505	-14.572
ATOM	3000	HB3	LEU	190	3.886	9.987	-14.074
ATOM	3001	CG	LEU	190	3.789	10.748	-14.598
ATOM	3002	HG	LEU	190	3.970	10.674	-14.520
ATOM	3003	CD1	LEU	190	3.629	11.160	-14.787
ATOM	3004	HD11	LEU	190	3.617	11.256	-14.878
ATOM	3005	HD12	LEU	190	3.594	11.236	-14.791
ATOM	3006	HD13	LEU	190	3.561	11.294	-14.829
ATOM	3007	CD2	LEU	190	3.468	11.293	-14.637
ATOM	3008	HD21	LEU	190	3.385	11.455	-14.660
ATOM	3009	HD22	LEU	190	3.405	11.409	-14.608
ATOM	3010	HD23	LEU	190	3.380	11.413	-14.674
ATOM	3011	C	LEU	190	5.388	9.712	-14.146

ATOM 3012 O LEU 190 5.430 9.651 -13.737
END

DATASET 52

HEADER APOPTOSIS 28-JUN-10 XXXX
TITLE 3D MODEL OF BAK IN COMPLEX WITH THE BH3 DOMAIN OF NOXA
COMPND MOLECULE: APOPTOSIS REGULATOR BAK;
COMPND 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
COMPND 3 PROTEIN;
SOURCE MOLECULE 1 (RESIDUES 1-27): NOXA;
SOURCE 2 NCBI ACCESSION: Q13794;
SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE 4 ORGANISM_COMMON: HUMAN;
SOURCE 5 MOLECULE 2 (RESIDUES 28-190): BAK;
SOURCE 6 NCBI ACCESSION: Q16611;
SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE 8 ORGANISM_COMMON: HUMAN;
KEYWDS HETERODIMER, APOPTOSIS
EXPDTA THEORETICAL MODEL
JRNL AUTH Y-P PANG, H DAI, A SMITH, XW MENG, PA SCHNEIDER, SH KAUFMANN
JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING;
JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
JRNL REF SCIENTIFIC REPORTS, SUBMITTED
REMARK 220 THIS IS AN ENERGY_MINIMIZED AVERAGE OF 5100 SIMILAR
REMARK 220 CONFORMERS IDENTIFIED BY CLUSTER ANALYSIS OF 52
REMARK 220 10-NS MOLECULAR DYNAMICS SIMULATIONS OF
REMARK 220 BAK*NOXA USING PMEMD WITH THE FF99SB FORCE FIELD.

MOL 1

ATOM	1	N	ALA	1	-3.843	9.628	22.125	0.00	0.00	N
ATOM	2	CA	ALA	1	-3.952	9.619	20.673	0.00	0.00	C
ATOM	3	C	ALA	1	-2.794	10.358	19.980	0.00	0.00	C
ATOM	4	O	ALA	1	-2.775	10.428	18.752	0.00	0.00	O
ATOM	5	CB	ALA	1	-5.309	10.212	20.272	0.00	0.00	C
ATOM	6	H	ALA	1	-3.636	10.507	22.579	0.00	0.00	H
ATOM	7	HA	ALA	1	-3.925	8.578	20.349	0.00	0.00	H
ATOM	8	1HB	ALA	1	-5.356	11.261	20.567	0.00	0.00	H
ATOM	9	2HB	ALA	1	-6.112	9.662	20.763	0.00	0.00	H
ATOM	10	3HB	ALA	1	-5.442	10.135	19.193	0.00	0.00	H
ATOM	11	N	GLU	2	-1.833	10.899	20.747	0.00	0.00	N
ATOM	12	CA	GLU	2	-0.689	11.652	20.236	0.00	0.00	C
ATOM	13	C	GLU	2	0.389	10.732	19.638	0.00	0.00	C
ATOM	14	O	GLU	2	1.256	11.215	18.913	0.00	0.00	O
ATOM	15	CB	GLU	2	-0.101	12.534	21.353	0.00	0.00	C
ATOM	16	CG	GLU	2	-0.992	13.724	21.751	0.00	0.00	C
ATOM	17	CD	GLU	2	-2.285	13.318	22.463	0.00	0.00	C
ATOM	18	OE1	GLU	2	-3.359	13.497	21.849	0.00	0.00	O
ATOM	19	OE2	GLU	2	-2.178	12.827	23.609	0.00	0.00	O
ATOM	20	H	GLU	2	-1.904	10.808	21.750	0.00	0.00	H
ATOM	21	HA	GLU	2	-1.042	12.310	19.439	0.00	0.00	H
ATOM	22	2HB	GLU	2	0.846	12.945	21.000	0.00	0.00	H
ATOM	23	3HB	GLU	2	0.112	11.921	22.231	0.00	0.00	H
ATOM	24	2HG	GLU	2	-0.422	14.370	22.421	0.00	0.00	H
ATOM	25	3HG	GLU	2	-1.230	14.304	20.857	0.00	0.00	H
ATOM	26	N	LEU	3	0.315	9.418	19.905	0.00	0.00	N
ATOM	27	CA	LEU	3	1.134	8.389	19.271	0.00	0.00	C
ATOM	28	C	LEU	3	0.626	8.076	17.852	0.00	0.00	C
ATOM	29	O	LEU	3	1.408	7.640	17.010	0.00	0.00	O
ATOM	30	CB	LEU	3	1.105	7.145	20.177	0.00	0.00	C
ATOM	31	CG	LEU	3	1.967	5.953	19.710	0.00	0.00	C
ATOM	32	CD1	LEU	3	3.452	6.322	19.567	0.00	0.00	C
ATOM	33	CD2	LEU	3	1.810	4.804	20.716	0.00	0.00	C
ATOM	34	H	LEU	3	-0.417	9.093	20.520	0.00	0.00	H
ATOM	35	HA	LEU	3	2.158	8.759	19.207	0.00	0.00	H
ATOM	36	2HB	LEU	3	1.440	7.442	21.173	0.00	0.00	H
ATOM	37	3HB	LEU	3	0.069	6.809	20.262	0.00	0.00	H
ATOM	38	HG	LEU	3	1.601	5.600	18.745	0.00	0.00	H
ATOM	39	1HD1	LEU	3	4.031	5.435	19.314	0.00	0.00	H
ATOM	40	2HD1	LEU	3	3.829	6.739	20.501	0.00	0.00	H
ATOM	41	3HD1	LEU	3	3.584	7.051	18.768	0.00	0.00	H
ATOM	42	1HD2	LEU	3	2.171	5.111	21.699	0.00	0.00	H
ATOM	43	2HD2	LEU	3	0.761	4.518	20.793	0.00	0.00	H
ATOM	44	3HD2	LEU	3	2.381	3.938	20.384	0.00	0.00	H
ATOM	45	N	GLU	4	-0.663	8.327	17.581	0.00	0.00	N
ATOM	46	CA	GLU	4	-1.280	8.183	16.265	0.00	0.00	C
ATOM	47	C	GLU	4	-1.147	9.477	15.443	0.00	0.00	C
ATOM	48	O	GLU	4	-1.347	9.439	14.230	0.00	0.00	O
ATOM	49	CB	GLU	4	-2.748	7.750	16.428	0.00	0.00	C
ATOM	50	CG	GLU	4	-2.882	6.426	17.202	0.00	0.00	C
ATOM	51	CD	GLU	4	-4.342	6.012	17.377	0.00	0.00	C
ATOM	52	OE1	GLU	4	-5.017	6.642	18.220	0.00	0.00	O
ATOM	53	OE2	GLU	4	-4.755	5.063	16.676	0.00	0.00	O
ATOM	54	H	GLU	4	-1.251	8.685	18.320	0.00	0.00	H
ATOM	55	HA	GLU	4	-0.762	7.391	15.723	0.00	0.00	H
ATOM	56	2HB	GLU	4	-3.303	8.531	16.946	0.00	0.00	H
ATOM	57	3HB	GLU	4	-3.185	7.617	15.437	0.00	0.00	H
ATOM	58	2HG	GLU	4	-2.441	6.526	18.194	0.00	0.00	H
ATOM	59	3HG	GLU	4	-2.342	5.645	16.667	0.00	0.00	H
ATOM	60	N	VAL	5	-0.769	10.598	16.080	0.00	0.00	N
ATOM	61	CA	VAL	5	-0.355	11.836	15.419	0.00	0.00	C
ATOM	62	C	VAL	5	1.151	11.778	15.106	0.00	0.00	C
ATOM	63	O	VAL	5	1.584	12.364	14.113	0.00	0.00	O
ATOM	64	CB	VAL	5	-0.732	13.047	16.306	0.00	0.00	C
ATOM	65	CG1	VAL	5	-0.200	14.377	15.744	0.00	0.00	C
ATOM	66	CG2	VAL	5	-2.259	13.172	16.449	0.00	0.00	C
ATOM	67	H	VAL	5	-0.643	10.561	17.081	0.00	0.00	H
ATOM	68	HA	VAL	5	-0.892	11.930	14.475	0.00	0.00	H
ATOM	69	HB	VAL	5	-0.301	12.906	17.297	0.00	0.00	H
ATOM	70	1HG1	VAL	5	-0.552	15.208	16.357	0.00	0.00	H
ATOM	71	2HG1	VAL	5	-0.544	14.517	14.719	0.00	0.00	H
ATOM	72	3HG1	VAL	5	0.891	14.387	15.764	0.00	0.00	H
ATOM	73	1HG2	VAL	5	-2.504	14.012	17.101	0.00	0.00	H
ATOM	74	2HG2	VAL	5	-2.715	13.334	15.471	0.00	0.00	H
ATOM	75	3HG2	VAL	5	-2.679	12.268	16.887	0.00	0.00	H
ATOM	76	N	GLU	6	1.936	11.040	15.909	0.00	0.00	N
ATOM	77	CA	GLU	6	3.349	10.782	15.654	0.00	0.00	C

ATOM	78	C	GLU	6	3.506	9.881	14.424	0.00	0.00	C
ATOM	79	O	GLU	6	4.375	10.138	13.595	0.00	0.00	O
ATOM	80	CB	GLU	6	3.973	10.139	16.905	0.00	0.00	C
ATOM	81	CG	GLU	6	5.480	9.891	16.763	0.00	0.00	C
ATOM	82	CD	GLU	6	6.036	9.154	17.980	0.00	0.00	C
ATOM	83	OE1	GLU	6	6.174	7.914	17.883	0.00	0.00	O
ATOM	84	OE2	GLU	6	6.312	9.841	18.988	0.00	0.00	O
ATOM	85	H	GLU	6	1.525	10.583	16.710	0.00	0.00	H
ATOM	86	HA	GLU	6	3.851	11.733	15.465	0.00	0.00	H
ATOM	87	ZHB	GLU	6	3.808	10.795	17.761	0.00	0.00	H
ATOM	88	ZHB	GLU	6	3.483	9.188	17.102	0.00	0.00	H
ATOM	89	ZHG	GLU	6	5.674	9.288	15.875	0.00	0.00	H
ATOM	90	ZHG	GLU	6	5.995	10.847	16.647	0.00	0.00	H
ATOM	91	N	CYS	7	2.644	8.859	14.291	0.00	0.00	N
ATOM	92	CA	CYS	7	2.663	7.912	13.182	0.00	0.00	C
ATOM	93	C	CYS	7	1.967	8.455	11.926	0.00	0.00	C
ATOM	94	O	CYS	7	2.127	7.869	10.856	0.00	0.00	O
ATOM	95	CB	CYS	7	2.056	6.585	13.644	0.00	0.00	C
ATOM	96	SG	CYS	7	3.134	5.859	14.909	0.00	0.00	S
ATOM	97	H	CYS	7	1.944	8.716	15.005	0.00	0.00	H
ATOM	98	HA	CYS	7	3.701	7.718	12.921	0.00	0.00	H
ATOM	99	ZHB	CYS	7	1.059	6.751	14.055	0.00	0.00	H
ATOM	100	ZHB	CYS	7	1.990	5.898	12.800	0.00	0.00	H
ATOM	101	HG	CYS	7	3.051	6.881	15.767	0.00	0.00	H
ATOM	102	N	ALA	8	1.246	9.584	12.034	0.00	0.00	N
ATOM	103	CA	ALA	8	0.761	10.340	10.886	0.00	0.00	C
ATOM	104	C	ALA	8	1.894	11.158	10.260	0.00	0.00	C
ATOM	105	O	ALA	8	1.951	11.278	9.037	0.00	0.00	O
ATOM	106	CB	ALA	8	-0.364	11.277	11.330	0.00	0.00	C
ATOM	107	H	ALA	8	1.137	10.009	12.944	0.00	0.00	H
ATOM	108	HA	ALA	8	0.362	9.651	10.141	0.00	0.00	H
ATOM	109	1HB	ALA	8	-0.719	11.828	10.462	0.00	0.00	H
ATOM	110	ZHB	ALA	8	-1.184	10.706	11.764	0.00	0.00	H
ATOM	111	ZHB	ALA	8	0.003	11.989	12.068	0.00	0.00	H
ATOM	112	N	THR	9	2.792	11.697	11.099	0.00	0.00	N
ATOM	113	CA	THR	9	3.926	12.519	10.696	0.00	0.00	C
ATOM	114	C	THR	9	5.072	11.651	10.154	0.00	0.00	C
ATOM	115	O	THR	9	5.813	12.110	9.288	0.00	0.00	O
ATOM	116	CB	THR	9	4.360	13.379	11.900	0.00	0.00	C
ATOM	117	CG2	THR	9	5.545	14.296	11.581	0.00	0.00	C
ATOM	118	OG1	THR	9	3.284	14.192	12.327	0.00	0.00	O
ATOM	119	H	THR	9	2.679	11.538	12.090	0.00	0.00	H
ATOM	120	HA	THR	9	3.602	13.189	9.898	0.00	0.00	H
ATOM	121	HB	THR	9	4.644	12.723	12.724	0.00	0.00	H
ATOM	122	1HG	THR	9	2.584	13.623	12.654	0.00	0.00	H
ATOM	123	1HG2	THR	9	6.441	13.698	11.423	0.00	0.00	H
ATOM	124	ZHG2	THR	9	5.727	14.969	12.420	0.00	0.00	H
ATOM	125	ZHG2	THR	9	5.336	14.885	10.687	0.00	0.00	H
ATOM	126	N	GLN	10	5.192	10.397	10.613	0.00	0.00	N
ATOM	127	CA	GLN	10	6.148	9.417	10.101	0.00	0.00	C
ATOM	128	C	GLN	10	5.720	8.874	8.728	0.00	0.00	C
ATOM	129	O	GLN	10	6.580	8.456	7.955	0.00	0.00	O
ATOM	130	CB	GLN	10	6.264	8.267	11.111	0.00	0.00	C
ATOM	131	CG	GLN	10	7.080	8.648	12.358	0.00	0.00	C
ATOM	132	CD	GLN	10	6.969	7.630	13.499	0.00	0.00	C
ATOM	133	NE2	GLN	10	7.765	7.831	14.551	0.00	0.00	N
ATOM	134	OE1	GLN	10	6.185	6.683	13.448	0.00	0.00	O
ATOM	135	H	GLN	10	4.552	10.077	11.327	0.00	0.00	H
ATOM	136	HA	GLN	10	7.124	9.890	9.994	0.00	0.00	H
ATOM	137	ZHB	GLN	10	5.259	7.965	11.402	0.00	0.00	H
ATOM	138	ZHB	GLN	10	6.750	7.417	10.634	0.00	0.00	H
ATOM	139	ZHG	GLN	10	8.128	8.745	12.070	0.00	0.00	H
ATOM	140	ZHG	GLN	10	6.757	9.618	12.733	0.00	0.00	H
ATOM	141	1HE2	GLN	10	8.399	8.616	14.564	0.00	0.00	H
ATOM	142	ZHE2	GLN	10	7.733	7.194	15.335	0.00	0.00	H
ATOM	143	N	LEU	11	4.413	8.906	8.420	0.00	0.00	N
ATOM	144	CA	LEU	11	3.852	8.494	7.136	0.00	0.00	C
ATOM	145	C	LEU	11	3.895	9.638	6.107	0.00	0.00	C
ATOM	146	O	LEU	11	3.852	9.364	4.908	0.00	0.00	O
ATOM	147	CB	LEU	11	2.413	7.997	7.387	0.00	0.00	C
ATOM	148	CG	LEU	11	1.730	7.282	6.200	0.00	0.00	C
ATOM	149	CD1	LEU	11	2.467	5.999	5.786	0.00	0.00	C
ATOM	150	CD2	LEU	11	0.283	6.932	6.577	0.00	0.00	C
ATOM	151	H	LEU	11	3.762	9.260	9.106	0.00	0.00	H
ATOM	152	HA	LEU	11	4.449	7.665	6.759	0.00	0.00	H
ATOM	153	ZHB	LEU	11	2.427	7.303	8.228	0.00	0.00	H
ATOM	154	ZHB	LEU	11	1.801	8.852	7.678	0.00	0.00	H
ATOM	155	HG	LEU	11	1.697	7.951	5.342	0.00	0.00	H
ATOM	156	1HD1	LEU	11	1.884	5.473	5.032	0.00	0.00	H
ATOM	157	2HD1	LEU	11	2.602	5.345	6.648	0.00	0.00	H
ATOM	158	3HD1	LEU	11	3.437	6.247	5.359	0.00	0.00	H
ATOM	159	1HD2	LEU	11	0.274	6.253	7.430	0.00	0.00	H
ATOM	160	2HD2	LEU	11	-0.262	7.840	6.832	0.00	0.00	H
ATOM	161	3HD2	LEU	11	-0.216	6.450	5.735	0.00	0.00	H
ATOM	162	N	ARG	12	3.989	10.900	6.566	0.00	0.00	N
ATOM	163	CA	ARG	12	3.876	12.106	5.747	0.00	0.00	C
ATOM	164	C	ARG	12	5.237	12.736	5.431	0.00	0.00	C
ATOM	165	O	ARG	12	5.389	13.311	4.353	0.00	0.00	O
ATOM	166	CB	ARG	12	2.942	13.087	6.473	0.00	0.00	C
ATOM	167	CG	ARG	12	2.600	14.331	5.639	0.00	0.00	C
ATOM	168	CD	ARG	12	1.516	15.188	6.305	0.00	0.00	C
ATOM	169	NE	ARG	12	1.990	15.812	7.552	0.00	0.00	N
ATOM	170	CZ	ARG	12	1.742	15.387	8.806	0.00	0.00	C
ATOM	171	NH1	ARG	12	0.980	14.314	9.060	0.00	0.00	N
ATOM	172	NH2	ARG	12	2.281	16.056	9.832	0.00	0.00	N
ATOM	173	H	ARG	12	4.046	11.041	7.565	0.00	0.00	H
ATOM	174	HA	ARG	12	3.414	11.842	4.797	0.00	0.00	H
ATOM	175	ZHB	ARG	12	2.010	12.568	6.702	0.00	0.00	H
ATOM	176	ZHB	ARG	12	3.408	13.392	7.410	0.00	0.00	H
ATOM	177	ZHG	ARG	12	3.494	14.939	5.493	0.00	0.00	H
ATOM	178	ZHG	ARG	12	2.235	14.012	4.663	0.00	0.00	H
ATOM	179	ZHD	ARG	12	1.231	15.982	5.614	0.00	0.00	H
ATOM	180	ZHD	ARG	12	0.633	14.578	6.494	0.00	0.00	H
ATOM	181	HE	ARG	12	2.570	16.632	7.442	0.00	0.00	H
ATOM	182	1HH1	ARG	12	0.564	13.798	8.297	0.00	0.00	H

ATOM	183	ZHH1	ARG	12	0.820	14.022	10.013	0.00	0.00	H
ATOM	184	1HH2	ARG	12	2.858	16.867	9.660	0.00	0.00	H
ATOM	185	2HH2	ARG	12	2.113	15.747	10.779	0.00	0.00	H
ATOM	186	N	ARG	13	6.229	12.595	6.325	0.00	0.00	N
ATOM	187	CA	ARG	13	7.610	12.994	6.064	0.00	0.00	C
ATOM	188	C	ARG	13	8.286	11.993	5.124	0.00	0.00	C
ATOM	189	O	ARG	13	9.078	12.410	4.279	0.00	0.00	O
ATOM	190	CB	ARG	13	8.391	13.111	7.381	0.00	0.00	C
ATOM	191	CG	ARG	13	7.991	14.360	8.181	0.00	0.00	C
ATOM	192	CD	ARG	13	8.758	14.408	9.504	0.00	0.00	C
ATOM	193	NE	ARG	13	8.424	15.617	10.269	0.00	0.00	N
ATOM	194	CZ	ARG	13	8.707	15.819	11.569	0.00	0.00	C
ATOM	195	NH1	ARG	13	9.351	14.898	12.300	0.00	0.00	N
ATOM	196	NH2	ARG	13	8.337	16.968	12.147	0.00	0.00	N
ATOM	197	H	ARG	13	6.042	12.114	7.192	0.00	0.00	H
ATOM	198	HA	ARG	13	7.612	13.971	5.577	0.00	0.00	H
ATOM	199	ZHB	ARG	13	8.231	12.214	7.982	0.00	0.00	H
ATOM	200	ZHB	ARG	13	9.455	13.182	7.153	0.00	0.00	H
ATOM	201	ZHG	ARG	13	8.225	15.250	7.595	0.00	0.00	H
ATOM	202	ZHG	ARG	13	6.920	14.348	8.386	0.00	0.00	H
ATOM	203	ZHD	ARG	13	8.507	13.525	10.091	0.00	0.00	H
ATOM	204	ZHD	ARG	13	9.830	14.406	9.300	0.00	0.00	H
ATOM	205	HE	ARG	13	7.937	16.348	9.769	0.00	0.00	H
ATOM	206	1HH1	ARG	13	9.635	14.026	11.878	0.00	0.00	H
ATOM	207	ZHH1	ARG	13	9.550	15.075	13.275	0.00	0.00	H
ATOM	208	1HH2	ARG	13	7.851	17.671	11.608	0.00	0.00	H
ATOM	209	ZHH2	ARG	13	8.542	17.132	13.122	0.00	0.00	H
ATOM	210	N	PHE	14	7.928	10.701	5.224	0.00	0.00	N
ATOM	211	CA	PHE	14	8.257	9.700	4.216	0.00	0.00	C
ATOM	212	C	PHE	14	7.280	9.749	3.029	0.00	0.00	C
ATOM	213	O	PHE	14	7.592	9.212	1.970	0.00	0.00	O
ATOM	214	CB	PHE	14	8.313	8.307	4.857	0.00	0.00	C
ATOM	215	CG	PHE	14	8.695	7.220	3.868	0.00	0.00	C
ATOM	216	CD1	PHE	14	9.956	7.250	3.238	0.00	0.00	C
ATOM	217	CD2	PHE	14	7.753	6.243	3.496	0.00	0.00	C
ATOM	218	CE1	PHE	14	10.264	6.319	2.232	0.00	0.00	C
ATOM	219	CE2	PHE	14	8.069	5.297	2.505	0.00	0.00	C
ATOM	220	CZ	PHE	14	9.322	5.341	1.870	0.00	0.00	C
ATOM	221	H	PHE	14	7.281	10.427	5.949	0.00	0.00	H
ATOM	222	HA	PHE	14	9.251	9.924	3.837	0.00	0.00	H
ATOM	223	ZHB	PHE	14	9.048	8.315	5.664	0.00	0.00	H
ATOM	224	ZHB	PHE	14	7.338	8.077	5.289	0.00	0.00	H
ATOM	225	HD1	PHE	14	10.682	8.003	3.506	0.00	0.00	H
ATOM	226	HD2	PHE	14	6.776	6.232	3.954	0.00	0.00	H
ATOM	227	HE1	PHE	14	11.223	6.353	1.737	0.00	0.00	H
ATOM	228	HE2	PHE	14	7.342	4.552	2.219	0.00	0.00	H
ATOM	229	HZ	PHE	14	9.560	4.627	1.098	0.00	0.00	H
ATOM	230	N	GLY	15	6.129	10.425	3.172	0.00	0.00	N
ATOM	231	CA	GLY	15	5.218	10.712	2.074	0.00	0.00	C
ATOM	232	C	GLY	15	5.793	11.738	1.087	0.00	0.00	C
ATOM	233	O	GLY	15	5.368	11.760	-0.065	0.00	0.00	O
ATOM	234	H	GLY	15	5.914	10.840	4.066	0.00	0.00	H
ATOM	235	ZHA	GLY	15	4.983	9.788	1.545	0.00	0.00	H
ATOM	236	ZHA	GLY	15	4.302	11.115	2.502	0.00	0.00	H
ATOM	237	N	ASP	16	6.778	12.543	1.518	0.00	0.00	N
ATOM	238	CA	ASP	16	7.470	13.536	0.699	0.00	0.00	C
ATOM	239	C	ASP	16	8.907	13.111	0.365	0.00	0.00	C
ATOM	240	O	ASP	16	9.480	13.645	-0.585	0.00	0.00	O
ATOM	241	CB	ASP	16	7.461	14.889	1.425	0.00	0.00	C
ATOM	242	CG	ASP	16	6.051	15.409	1.719	0.00	0.00	C
ATOM	243	OD1	ASP	16	5.850	15.880	2.860	0.00	0.00	O
ATOM	244	OD2	ASP	16	5.201	15.342	0.803	0.00	0.00	O
ATOM	245	H	ASP	16	7.081	12.461	2.479	0.00	0.00	H
ATOM	246	HA	ASP	16	6.936	13.659	-0.244	0.00	0.00	H
ATOM	247	ZHB	ASP	16	8.014	14.791	2.362	0.00	0.00	H
ATOM	248	ZHB	ASP	16	7.973	15.626	0.806	0.00	0.00	H
ATOM	249	N	LYS	17	9.479	12.151	1.110	0.00	0.00	N
ATOM	250	CA	LYS	17	10.792	11.580	0.824	0.00	0.00	C
ATOM	251	C	LYS	17	10.681	10.409	-0.161	0.00	0.00	C
ATOM	252	O	LYS	17	11.649	10.132	-0.866	0.00	0.00	O
ATOM	253	CB	LYS	17	11.476	11.187	2.142	0.00	0.00	C
ATOM	254	CG	LYS	17	12.973	10.897	1.957	0.00	0.00	C
ATOM	255	CD	LYS	17	13.668	10.711	3.309	0.00	0.00	C
ATOM	256	CE	LYS	17	15.162	10.465	3.091	0.00	0.00	C
ATOM	257	NZ	LYS	17	15.872	10.279	4.368	0.00	0.00	N
ATOM	258	H	LYS	17	8.961	11.754	1.882	0.00	0.00	H
ATOM	259	HA	LYS	17	11.403	12.354	0.357	0.00	0.00	H
ATOM	260	ZHB	LYS	17	11.373	12.015	2.846	0.00	0.00	H
ATOM	261	ZHB	LYS	17	10.987	10.307	2.559	0.00	0.00	H
ATOM	262	ZHG	LYS	17	13.100	9.990	1.365	0.00	0.00	H
ATOM	263	ZHG	LYS	17	13.438	11.733	1.431	0.00	0.00	H
ATOM	264	ZHD	LYS	17	13.538	11.610	3.913	0.00	0.00	H
ATOM	265	ZHD	LYS	17	13.227	9.862	3.832	0.00	0.00	H
ATOM	266	ZHE	LYS	17	15.291	9.573	2.478	0.00	0.00	H
ATOM	267	ZHE	LYS	17	15.592	11.319	2.567	0.00	0.00	H
ATOM	268	1HZ	LYS	17	15.486	9.481	4.855	0.00	0.00	H
ATOM	269	2HZ	LYS	17	16.853	10.120	4.188	0.00	0.00	H
ATOM	270	3HZ	LYS	17	15.763	11.106	4.938	0.00	0.00	H
ATOM	271	N	LEU	18	9.503	9.768	-0.259	0.00	0.00	N
ATOM	272	CA	LEU	18	9.174	8.822	-1.321	0.00	0.00	C
ATOM	273	C	LEU	18	8.775	9.564	-2.602	0.00	0.00	C
ATOM	274	O	LEU	18	8.990	9.034	-3.688	0.00	0.00	O
ATOM	275	CB	LEU	18	8.065	7.866	-0.846	0.00	0.00	C
ATOM	276	CG	LEU	18	7.676	6.761	-1.853	0.00	0.00	C
ATOM	277	CD1	LEU	18	8.876	5.929	-2.331	0.00	0.00	C
ATOM	278	CD2	LEU	18	6.647	5.823	-1.210	0.00	0.00	C
ATOM	279	H	LEU	18	8.751	10.037	0.358	0.00	0.00	H
ATOM	280	HA	LEU	18	10.064	8.232	-1.523	0.00	0.00	H
ATOM	281	ZHB	LEU	18	8.402	7.391	0.075	0.00	0.00	H
ATOM	282	ZHB	LEU	18	7.175	8.453	-0.617	0.00	0.00	H
ATOM	283	HG	LEU	18	7.208	7.222	-2.723	0.00	0.00	H
ATOM	284	1HD1	LEU	18	8.532	5.085	-2.931	0.00	0.00	H
ATOM	285	ZHD1	LEU	18	9.539	6.531	-2.947	0.00	0.00	H
ATOM	286	3HD1	LEU	18	9.426	5.559	-1.468	0.00	0.00	H
ATOM	287	1HD2	LEU	18	5.773	6.394	-0.911	0.00	0.00	H

ATOM	288	ZHD2	LEU	18	6.340	5.065	-1.928	0.00	0.00	H
ATOM	289	3HD2	LEU	18	7.075	5.333	-0.335	0.00	0.00	H
ATOM	290	N	ASN	19	8.257	10.798	-2.491	0.00	0.00	N
ATOM	291	CA	ASN	19	7.990	11.652	-3.644	0.00	0.00	C
ATOM	292	C	ASN	19	9.305	12.055	-4.329	0.00	0.00	C
ATOM	293	O	ASN	19	9.333	12.187	-5.551	0.00	0.00	O
ATOM	294	CB	ASN	19	7.204	12.890	-3.186	0.00	0.00	C
ATOM	295	CG	ASN	19	6.560	13.674	-4.333	0.00	0.00	C
ATOM	296	ND2	ASN	19	6.296	14.961	-4.097	0.00	0.00	N
ATOM	297	OD1	ASN	19	6.284	13.136	-5.404	0.00	0.00	O
ATOM	298	H	ASN	19	8.104	11.193	-1.574	0.00	0.00	H
ATOM	299	HA	ASN	19	7.379	11.083	-4.347	0.00	0.00	H
ATOM	300	ZHB	ASN	19	6.413	12.585	-2.503	0.00	0.00	H
ATOM	301	3HB	ASN	19	7.872	13.552	-2.636	0.00	0.00	H
ATOM	302	1HD2	ASN	19	5.858	15.525	-4.812	0.00	0.00	H
ATOM	303	ZHD2	ASN	19	6.527	15.368	-3.202	0.00	0.00	H
ATOM	304	N	PHE	20	10.393	12.191	-3.551	0.00	0.00	N
ATOM	305	CA	PHE	20	11.741	12.422	-4.051	0.00	0.00	C
ATOM	306	C	PHE	20	12.411	11.116	-4.506	0.00	0.00	C
ATOM	307	O	PHE	20	13.212	11.157	-5.436	0.00	0.00	O
ATOM	308	CB	PHE	20	12.564	13.115	-2.957	0.00	0.00	C
ATOM	309	CG	PHE	20	13.998	13.398	-3.367	0.00	0.00	C
ATOM	310	CD1	PHE	20	15.045	12.580	-2.896	0.00	0.00	C
ATOM	311	CD2	PHE	20	14.281	14.452	-4.257	0.00	0.00	C
ATOM	312	CE1	PHE	20	16.366	12.819	-3.312	0.00	0.00	C
ATOM	313	CE2	PHE	20	15.603	14.688	-4.673	0.00	0.00	C
ATOM	314	CZ	PHE	20	16.646	13.872	-4.201	0.00	0.00	C
ATOM	315	H	PHE	20	10.293	12.068	-2.553	0.00	0.00	H
ATOM	316	HA	PHE	20	11.685	13.094	-4.908	0.00	0.00	H
ATOM	317	ZHB	PHE	20	12.083	14.060	-2.701	0.00	0.00	H
ATOM	318	3HB	PHE	20	12.564	12.492	-2.062	0.00	0.00	H
ATOM	319	HD1	PHE	20	14.837	11.762	-2.224	0.00	0.00	H
ATOM	320	HD2	PHE	20	13.482	15.077	-4.630	0.00	0.00	H
ATOM	321	HE1	PHE	20	17.168	12.190	-2.952	0.00	0.00	H
ATOM	322	HE2	PHE	20	15.817	15.496	-5.358	0.00	0.00	H
ATOM	323	HZ	PHE	20	17.660	14.052	-4.524	0.00	0.00	H
ATOM	324	N	ARG	21	12.069	9.971	-3.888	0.00	0.00	N
ATOM	325	CA	ARG	21	12.571	8.639	-4.238	0.00	0.00	C
ATOM	326	C	ARG	21	11.691	7.977	-5.321	0.00	0.00	C
ATOM	327	O	ARG	21	11.588	6.754	-5.399	0.00	0.00	O
ATOM	328	CB	ARG	21	12.749	7.813	-2.951	0.00	0.00	C
ATOM	329	CG	ARG	21	13.716	6.628	-3.085	0.00	0.00	C
ATOM	330	CD	ARG	21	13.880	5.944	-1.722	0.00	0.00	C
ATOM	331	NE	ARG	21	14.767	4.775	-1.805	0.00	0.00	N
ATOM	332	CZ	ARG	21	16.110	4.800	-1.735	0.00	0.00	C
ATOM	333	NH1	ARG	21	16.789	5.943	-1.557	0.00	0.00	N
ATOM	334	NH2	ARG	21	16.789	3.651	-1.846	0.00	0.00	N
ATOM	335	H	ARG	21	11.396	10.015	-3.136	0.00	0.00	H
ATOM	336	HA	ARG	21	13.564	8.775	-4.670	0.00	0.00	H
ATOM	337	ZHB	ARG	21	13.153	8.467	-2.177	0.00	0.00	H
ATOM	338	3HB	ARG	21	11.777	7.448	-2.621	0.00	0.00	H
ATOM	339	ZHG	ARG	21	13.332	5.901	-3.800	0.00	0.00	H
ATOM	340	3HG	ARG	21	14.685	6.990	-3.429	0.00	0.00	H
ATOM	341	ZHD	ARG	21	14.277	6.658	-0.998	0.00	0.00	H
ATOM	342	3HD	ARG	21	12.902	5.616	-1.374	0.00	0.00	H
ATOM	343	HE	ARG	21	14.318	3.881	-1.943	0.00	0.00	H
ATOM	344	1HH1	ARG	21	16.289	6.817	-1.476	0.00	0.00	H
ATOM	345	2HH1	ARG	21	17.797	5.930	-1.513	0.00	0.00	H
ATOM	346	1HH2	ARG	21	16.292	2.784	-1.991	0.00	0.00	H
ATOM	347	2HH2	ARG	21	17.798	3.653	-1.800	0.00	0.00	H
ATOM	348	N	GLN	22	11.057	8.810	-6.159	0.00	0.00	N
ATOM	349	CA	GLN	22	10.289	8.445	-7.344	0.00	0.00	C
ATOM	350	C	GLN	22	10.703	9.356	-8.505	0.00	0.00	C
ATOM	351	O	GLN	22	10.783	8.882	-9.637	0.00	0.00	O
ATOM	352	CB	GLN	22	8.788	8.585	-7.048	0.00	0.00	C
ATOM	353	CG	GLN	22	8.235	7.365	-6.289	0.00	0.00	C
ATOM	354	CD	GLN	22	6.828	7.582	-5.727	0.00	0.00	C
ATOM	355	NE2	GLN	22	6.143	6.486	-5.400	0.00	0.00	N
ATOM	356	OE1	GLN	22	6.367	8.711	-5.570	0.00	0.00	O
ATOM	357	H	GLN	22	11.173	9.802	-6.005	0.00	0.00	H
ATOM	358	HA	GLN	22	10.497	7.412	-7.624	0.00	0.00	H
ATOM	359	ZHB	GLN	22	8.624	9.499	-6.476	0.00	0.00	H
ATOM	360	3HB	GLN	22	8.241	8.671	-7.989	0.00	0.00	H
ATOM	361	ZHG	GLN	22	8.222	6.512	-6.968	0.00	0.00	H
ATOM	362	3HG	GLN	22	8.891	7.112	-5.459	0.00	0.00	H
ATOM	363	1HE2	GLN	22	5.209	6.570	-5.022	0.00	0.00	H
ATOM	364	2HE2	GLN	22	6.554	5.573	-5.535	0.00	0.00	H
ATOM	365	N	LYS	23	11.011	10.632	-8.215	0.00	0.00	N
ATOM	366	CA	LYS	23	11.531	11.613	-9.165	0.00	0.00	C
ATOM	367	C	LYS	23	13.023	11.387	-9.443	0.00	0.00	C
ATOM	368	O	LYS	23	13.477	11.645	-10.557	0.00	0.00	O
ATOM	369	CB	LYS	23	11.298	13.023	-8.600	0.00	0.00	C
ATOM	370	CG	LYS	23	9.809	13.407	-8.594	0.00	0.00	C
ATOM	371	CD	LYS	23	9.583	14.717	-7.831	0.00	0.00	C
ATOM	372	CE	LYS	23	8.086	15.028	-7.762	0.00	0.00	C
ATOM	373	NZ	LYS	23	7.824	16.245	-6.978	0.00	0.00	N
ATOM	374	H	LYS	23	10.916	10.940	-7.258	0.00	0.00	H
ATOM	375	HA	LYS	23	10.988	11.524	-10.106	0.00	0.00	H
ATOM	376	ZHB	LYS	23	11.695	13.069	-7.583	0.00	0.00	H
ATOM	377	3HB	LYS	23	11.838	13.748	-9.211	0.00	0.00	H
ATOM	378	ZHG	LYS	23	9.464	13.521	-9.623	0.00	0.00	H
ATOM	379	3HG	LYS	23	9.223	12.619	-8.121	0.00	0.00	H
ATOM	380	ZHD	LYS	23	9.974	14.622	-6.817	0.00	0.00	H
ATOM	381	3HD	LYS	23	10.101	15.532	-8.340	0.00	0.00	H
ATOM	382	ZHE	LYS	23	7.701	15.161	-8.772	0.00	0.00	H
ATOM	383	3HE	LYS	23	7.571	14.188	-7.294	0.00	0.00	H
ATOM	384	1HZ	LYS	23	6.830	16.422	-6.953	0.00	0.00	H
ATOM	385	2HZ	LYS	23	8.168	16.120	-6.036	0.00	0.00	H
ATOM	386	3HZ	LYS	23	8.295	17.030	-7.407	0.00	0.00	H
ATOM	387	N	LEU	24	13.766	10.871	-8.451	0.00	0.00	N
ATOM	388	CA	LEU	24	15.151	10.430	-8.587	0.00	0.00	C
ATOM	389	C	LEU	24	15.220	9.082	-9.322	0.00	0.00	C
ATOM	390	O	LEU	24	16.203	8.814	-10.011	0.00	0.00	O
ATOM	391	CB	LEU	24	15.754	10.337	-7.172	0.00	0.00	C
ATOM	392	CG	LEU	24	17.235	9.910	-7.098	0.00	0.00	C

ATOM	393	CD1	LEU	24	18.165	10.903	-7.815	0.00	0.00	C
ATOM	394	CD2	LEU	24	17.653	9.786	-5.626	0.00	0.00	C
ATOM	395	H	LEU	24	13.324	10.697	-7.561	0.00	0.00	H
ATOM	396	HA	LEU	24	15.697	11.178	-9.160	0.00	0.00	H
ATOM	397	ZHB	LEU	24	15.655	11.311	-6.690	0.00	0.00	H
ATOM	398	ZHB	LEU	24	15.165	9.617	-6.600	0.00	0.00	H
ATOM	399	HG	LEU	24	17.351	8.929	-7.559	0.00	0.00	H
ATOM	400	1HD1	LEU	24	18.041	11.902	-7.398	0.00	0.00	H
ATOM	401	2HD1	LEU	24	19.202	10.590	-7.693	0.00	0.00	H
ATOM	402	3HD1	LEU	24	17.940	10.927	-8.881	0.00	0.00	H
ATOM	403	1HD2	LEU	24	17.013	9.061	-5.119	0.00	0.00	H
ATOM	404	2HD2	LEU	24	18.686	9.442	-5.562	0.00	0.00	H
ATOM	405	3HD2	LEU	24	17.566	10.751	-5.127	0.00	0.00	H
ATOM	406	N	LEU	25	14.168	8.258	-9.192	0.00	0.00	N
ATOM	407	CA	LEU	25	14.061	6.935	-9.798	0.00	0.00	C
ATOM	408	C	LEU	25	13.519	7.000	-11.238	0.00	0.00	C
ATOM	409	O	LEU	25	13.569	5.983	-11.932	0.00	0.00	O
ATOM	410	CB	LEU	25	13.201	6.029	-8.889	0.00	0.00	C
ATOM	411	CG	LEU	25	13.927	5.367	-7.692	0.00	0.00	C
ATOM	412	CD1	LEU	25	14.854	4.233	-8.152	0.00	0.00	C
ATOM	413	CD2	LEU	25	14.721	6.345	-6.808	0.00	0.00	C
ATOM	414	H	LEU	25	13.390	8.555	-8.620	0.00	0.00	H
ATOM	415	HA	LEU	25	15.060	6.504	-9.859	0.00	0.00	H
ATOM	416	ZHB	LEU	25	12.771	5.229	-9.493	0.00	0.00	H
ATOM	417	ZHB	LEU	25	12.365	6.614	-8.509	0.00	0.00	H
ATOM	418	HG	LEU	25	13.155	4.916	-7.065	0.00	0.00	H
ATOM	419	1HD1	LEU	25	14.290	3.508	-8.739	0.00	0.00	H
ATOM	420	2HD1	LEU	25	15.274	3.725	-7.284	0.00	0.00	H
ATOM	421	3HD1	LEU	25	15.671	4.626	-8.759	0.00	0.00	H
ATOM	422	1HD2	LEU	25	15.052	5.834	-5.903	0.00	0.00	H
ATOM	423	2HD2	LEU	25	15.598	6.715	-7.340	0.00	0.00	H
ATOM	424	3HD2	LEU	25	14.092	7.188	-6.526	0.00	0.00	H
ATOM	425	N	ASN	26	13.064	8.176	-11.714	0.00	0.00	N
ATOM	426	CA	ASN	26	12.812	8.420	-13.131	0.00	0.00	C
ATOM	427	C	ASN	26	14.151	8.598	-13.870	0.00	0.00	C
ATOM	428	O	ASN	26	15.093	9.152	-13.303	0.00	0.00	O
ATOM	429	CB	ASN	26	11.917	9.655	-13.340	0.00	0.00	C
ATOM	430	CG	ASN	26	10.465	9.453	-12.901	0.00	0.00	C
ATOM	431	ND2	ASN	26	9.781	8.459	-13.473	0.00	0.00	N
ATOM	432	OD1	ASN	26	9.953	10.207	-12.076	0.00	0.00	O
ATOM	433	H	ASN	26	13.031	8.975	-11.096	0.00	0.00	H
ATOM	434	HA	ASN	26	12.290	7.553	-13.532	0.00	0.00	H
ATOM	435	ZHB	ASN	26	11.908	9.901	-14.403	0.00	0.00	H
ATOM	436	ZHB	ASN	26	12.346	10.506	-12.809	0.00	0.00	H
ATOM	437	1HD2	ASN	26	8.816	8.301	-13.222	0.00	0.00	H
ATOM	438	2HD2	ASN	26	10.230	7.867	-14.158	0.00	0.00	H
ATOM	439	N	LEU	27	14.282	8.171	-15.139	0.00	0.00	N
ATOM	440	CA	LEU	27	13.275	7.512	-15.964	0.00	0.00	C
ATOM	441	C	LEU	27	13.532	7.864	-17.426	0.00	0.00	C
ATOM	442	O	LEU	27	12.758	7.498	-18.310	0.00	0.00	O
ATOM	443	CB	LEU	27	13.256	5.985	-15.725	0.00	0.00	C
ATOM	444	CG	LEU	27	14.438	5.151	-16.273	0.00	0.00	C
ATOM	445	CD1	LEU	27	14.140	3.661	-16.039	0.00	0.00	C
ATOM	446	CD2	LEU	27	15.795	5.489	-15.631	0.00	0.00	C
ATOM	447	H	LEU	27	15.177	8.313	-15.583	0.00	0.00	H
ATOM	448	HA	LEU	27	12.295	7.912	-15.704	0.00	0.00	H
ATOM	449	ZHB	LEU	27	12.343	5.607	-16.190	0.00	0.00	H
ATOM	450	ZHB	LEU	27	13.163	5.797	-14.656	0.00	0.00	H
ATOM	451	HG	LEU	27	14.519	5.308	-17.349	0.00	0.00	H
ATOM	452	1HD1	LEU	27	13.203	3.388	-16.526	0.00	0.00	H
ATOM	453	2HD1	LEU	27	14.063	3.455	-14.970	0.00	0.00	H
ATOM	454	3HD1	LEU	27	14.939	3.051	-16.463	0.00	0.00	H
ATOM	455	1HD2	LEU	27	15.717	5.453	-14.543	0.00	0.00	H
ATOM	456	2HD2	LEU	27	16.123	6.480	-15.941	0.00	0.00	H
ATOM	457	3HD2	LEU	27	16.550	4.773	-15.958	0.00	0.00	H
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ATOM	458	N	SER	28	-9.963	4.441	-14.945	0.00	0.00	N
ATOM	459	CA	SER	28	-8.866	5.336	-15.291	0.00	0.00	C
ATOM	460	C	SER	28	-9.328	6.779	-15.563	0.00	0.00	C
ATOM	461	O	SER	28	-8.478	7.641	-15.785	0.00	0.00	O
ATOM	462	CB	SER	28	-8.105	4.764	-16.494	0.00	0.00	C
ATOM	463	OG	SER	28	-7.480	3.543	-16.155	0.00	0.00	O
ATOM	464	H	SER	28	-9.808	3.760	-14.214	0.00	0.00	H
ATOM	465	HA	SER	28	-8.179	5.367	-14.447	0.00	0.00	H
ATOM	466	ZHB	SER	28	-8.794	4.604	-17.324	0.00	0.00	H
ATOM	467	ZHB	SER	28	-7.335	5.469	-16.807	0.00	0.00	H
ATOM	468	HG	SER	28	-8.159	2.913	-15.903	0.00	0.00	H
ATOM	469	N	ALA	29	-10.646	7.046	-15.544	0.00	0.00	N
ATOM	470	CA	ALA	29	-11.243	8.335	-15.904	0.00	0.00	C
ATOM	471	C	ALA	29	-12.222	8.868	-14.845	0.00	0.00	C
ATOM	472	O	ALA	29	-12.635	10.024	-14.945	0.00	0.00	O
ATOM	473	CB	ALA	29	-11.930	8.194	-17.267	0.00	0.00	C
ATOM	474	H	ALA	29	-11.288	6.295	-15.337	0.00	0.00	H
ATOM	475	HA	ALA	29	-10.450	9.076	-16.008	0.00	0.00	H
ATOM	476	1HB	ALA	29	-12.752	7.481	-17.199	0.00	0.00	H
ATOM	477	ZHB	ALA	29	-12.321	9.160	-17.585	0.00	0.00	H
ATOM	478	ZHB	ALA	29	-11.211	7.844	-18.008	0.00	0.00	H
ATOM	479	N	SER	30	-12.569	8.061	-13.830	0.00	0.00	N
ATOM	480	CA	SER	30	-13.348	8.479	-12.667	0.00	0.00	C
ATOM	481	C	SER	30	-12.830	7.790	-11.402	0.00	0.00	C
ATOM	482	O	SER	30	-12.149	6.767	-11.478	0.00	0.00	O
ATOM	483	CB	SER	30	-14.842	8.202	-12.889	0.00	0.00	C
ATOM	484	OG	SER	30	-15.114	6.818	-12.944	0.00	0.00	O
ATOM	485	H	SER	30	-12.206	7.118	-13.816	0.00	0.00	H
ATOM	486	HA	SER	30	-13.227	9.555	-12.531	0.00	0.00	H
ATOM	487	ZHB	SER	30	-15.412	8.637	-12.067	0.00	0.00	H
ATOM	488	ZHB	SER	30	-15.164	8.668	-13.820	0.00	0.00	H
ATOM	489	HG	SER	30	-16.057	6.697	-13.078	0.00	0.00	H
ATOM	490	N	GLU	31	-13.172	8.350	-10.233	0.00	0.00	N
ATOM	491	CA	GLU	31	-12.718	7.858	-8.933	0.00	0.00	C
ATOM	492	C	GLU	31	-13.286	6.477	-8.573	0.00	0.00	C
ATOM	493	O	GLU	31	-12.709	5.803	-7.722	0.00	0.00	O
ATOM	494	CB	GLU	31	-13.049	8.901	-7.853	0.00	0.00	C
ATOM	495	CG	GLU	31	-14.551	9.036	-7.553	0.00	0.00	C

ATOM	496	CD	GLU	31	-14.832	10.196	-6.600	0.00	0.00	C
ATOM	497	OE1	GLU	31	-14.283	10.171	-5.476	0.00	0.00	O
ATOM	498	OE2	GLU	31	-15.599	11.093	-7.013	0.00	0.00	O
ATOM	499	H	GLU	31	-13.746	9.180	-10.237	0.00	0.00	H
ATOM	500	HA	GLU	31	-11.633	7.768	-8.981	0.00	0.00	H
ATOM	501	ZHB	GLU	31	-12.527	8.629	-6.934	0.00	0.00	H
ATOM	502	ZHB	GLU	31	-12.676	9.870	-8.183	0.00	0.00	H
ATOM	503	ZHG	GLU	31	-15.093	9.200	-8.485	0.00	0.00	H
ATOM	504	ZHG	GLU	31	-14.921	8.116	-7.102	0.00	0.00	H
ATOM	505	N	GLU	32	-14.387	6.057	-9.217	0.00	0.00	N
ATOM	506	CA	GLU	32	-15.027	4.760	-9.019	0.00	0.00	C
ATOM	507	C	GLU	32	-14.363	3.682	-9.882	0.00	0.00	C
ATOM	508	O	GLU	32	-14.205	2.552	-9.422	0.00	0.00	O
ATOM	509	CB	GLU	32	-16.523	4.870	-9.359	0.00	0.00	C
ATOM	510	CG	GLU	32	-17.283	5.790	-8.392	0.00	0.00	C
ATOM	511	CD	GLU	32	-18.761	5.881	-8.763	0.00	0.00	C
ATOM	512	OE1	GLU	32	-19.084	6.738	-9.616	0.00	0.00	O
ATOM	513	OE2	GLU	32	-19.545	5.092	-8.191	0.00	0.00	O
ATOM	514	H	GLU	32	-14.807	6.668	-9.904	0.00	0.00	H
ATOM	515	HA	GLU	32	-14.934	4.469	-7.972	0.00	0.00	H
ATOM	516	ZHB	GLU	32	-16.635	5.243	-10.378	0.00	0.00	H
ATOM	517	ZHB	GLU	32	-16.967	3.875	-9.307	0.00	0.00	H
ATOM	518	ZHG	GLU	32	-17.189	5.398	-7.379	0.00	0.00	H
ATOM	519	ZHG	GLU	32	-16.850	6.792	-8.416	0.00	0.00	H
ATOM	520	N	GLN	33	-13.940	4.039	-11.105	0.00	0.00	N
ATOM	521	CA	GLN	33	-13.176	3.174	-12.001	0.00	0.00	C
ATOM	522	C	GLN	33	-11.737	2.984	-11.506	0.00	0.00	C
ATOM	523	O	GLN	33	-11.114	1.978	-11.843	0.00	0.00	O
ATOM	524	CB	GLN	33	-13.150	3.795	-13.406	0.00	0.00	C
ATOM	525	CG	GLN	33	-14.516	3.754	-14.109	0.00	0.00	C
ATOM	526	CD	GLN	33	-14.535	4.525	-15.434	0.00	0.00	C
ATOM	527	NE2	GLN	33	-15.690	4.520	-16.106	0.00	0.00	N
ATOM	528	OE1	GLN	33	-13.542	5.121	-15.850	0.00	0.00	O
ATOM	529	H	GLN	33	-14.104	4.986	-11.418	0.00	0.00	H
ATOM	530	HA	GLN	33	-13.658	2.196	-12.055	0.00	0.00	H
ATOM	531	ZHB	GLN	33	-12.806	4.828	-13.329	0.00	0.00	H
ATOM	532	ZHB	GLN	33	-12.439	3.243	-14.023	0.00	0.00	H
ATOM	533	ZHG	GLN	33	-14.782	2.714	-14.301	0.00	0.00	H
ATOM	534	ZHG	GLN	33	-15.280	4.175	-13.455	0.00	0.00	H
ATOM	535	1HE2	GLN	33	-15.763	5.013	-16.983	0.00	0.00	H
ATOM	536	2HE2	GLN	33	-16.486	4.022	-15.735	0.00	0.00	H
ATOM	537	N	VAL	34	-11.223	3.935	-10.711	0.00	0.00	N
ATOM	538	CA	VAL	34	-9.868	3.933	-10.173	0.00	0.00	C
ATOM	539	C	VAL	34	-9.838	3.385	-8.740	0.00	0.00	C
ATOM	540	O	VAL	34	-8.767	2.996	-8.282	0.00	0.00	O
ATOM	541	CB	VAL	34	-9.251	5.339	-10.341	0.00	0.00	C
ATOM	542	CG1	VAL	34	-7.883	5.503	-9.664	0.00	0.00	C
ATOM	543	CG2	VAL	34	-9.039	5.616	-11.837	0.00	0.00	C
ATOM	544	H	VAL	34	-11.800	4.729	-10.475	0.00	0.00	H
ATOM	545	HA	VAL	34	-9.271	3.252	-10.774	0.00	0.00	H
ATOM	546	HB	VAL	34	-9.931	6.084	-9.927	0.00	0.00	H
ATOM	547	1HG1	VAL	34	-7.483	6.486	-9.907	0.00	0.00	H
ATOM	548	2HG1	VAL	34	-7.980	5.439	-8.582	0.00	0.00	H
ATOM	549	3HG1	VAL	34	-7.194	4.737	-10.019	0.00	0.00	H
ATOM	550	1HG2	VAL	34	-8.553	6.577	-11.976	0.00	0.00	H
ATOM	551	2HG2	VAL	34	-8.403	4.843	-12.265	0.00	0.00	H
ATOM	552	3HG2	VAL	34	-9.990	5.630	-12.368	0.00	0.00	H
ATOM	553	N	ALA	35	-10.992	3.265	-8.065	0.00	0.00	N
ATOM	554	CA	ALA	35	-11.130	2.459	-6.856	0.00	0.00	C
ATOM	555	C	ALA	35	-11.155	0.960	-7.197	0.00	0.00	C
ATOM	556	O	ALA	35	-10.728	0.146	-6.381	0.00	0.00	O
ATOM	557	CB	ALA	35	-12.397	2.884	-6.109	0.00	0.00	C
ATOM	558	H	ALA	35	-11.844	3.610	-8.485	0.00	0.00	H
ATOM	559	HA	ALA	35	-10.278	2.652	-6.204	0.00	0.00	H
ATOM	560	1HB	ALA	35	-13.273	2.745	-6.743	0.00	0.00	H
ATOM	561	ZHB	ALA	35	-12.511	2.289	-5.205	0.00	0.00	H
ATOM	562	ZHB	ALA	35	-12.313	3.933	-5.827	0.00	0.00	H
ATOM	563	N	GLN	36	-11.592	0.599	-8.415	0.00	0.00	N
ATOM	564	CA	GLN	36	-11.479	-0.753	-8.955	0.00	0.00	C
ATOM	565	C	GLN	36	-10.045	-1.044	-9.424	0.00	0.00	C
ATOM	566	O	GLN	36	-9.645	-2.209	-9.434	0.00	0.00	O
ATOM	567	CB	GLN	36	-12.477	-0.927	-10.111	0.00	0.00	C
ATOM	568	CG	GLN	36	-13.936	-0.933	-9.633	0.00	0.00	C
ATOM	569	CD	GLN	36	-14.907	-0.931	-10.813	0.00	0.00	C
ATOM	570	NE2	GLN	36	-15.168	-2.108	-11.388	0.00	0.00	N
ATOM	571	OE1	GLN	36	-15.404	0.121	-11.209	0.00	0.00	O
ATOM	572	H	GLN	36	-11.936	1.314	-9.041	0.00	0.00	H
ATOM	573	HA	GLN	36	-11.734	-1.469	-8.173	0.00	0.00	H
ATOM	574	ZHB	GLN	36	-12.337	-0.122	-10.834	0.00	0.00	H
ATOM	575	ZHB	GLN	36	-12.277	-1.873	-10.614	0.00	0.00	H
ATOM	576	ZHG	GLN	36	-14.107	-1.820	-9.020	0.00	0.00	H
ATOM	577	ZHG	GLN	36	-14.132	-0.057	-9.015	0.00	0.00	H
ATOM	578	1HE2	GLN	36	-14.734	-2.949	-11.037	0.00	0.00	H
ATOM	579	2HE2	GLN	36	-15.799	-2.154	-12.175	0.00	0.00	H
ATOM	580	N	ASP	37	-9.265	-0.003	-9.764	0.00	0.00	N
ATOM	581	CA	ASP	37	-7.843	-0.121	-10.076	0.00	0.00	C
ATOM	582	C	ASP	37	-6.988	-0.134	-8.803	0.00	0.00	C
ATOM	583	O	ASP	37	-5.887	-0.680	-8.838	0.00	0.00	O
ATOM	584	CB	ASP	37	-7.401	1.022	-11.002	0.00	0.00	C
ATOM	585	CG	ASP	37	-8.130	1.084	-12.348	0.00	0.00	C
ATOM	586	OD1	ASP	37	-8.160	2.198	-12.916	0.00	0.00	O
ATOM	587	OD2	ASP	37	-8.624	0.031	-12.808	0.00	0.00	O
ATOM	588	H	ASP	37	-9.654	0.929	-9.742	0.00	0.00	H
ATOM	589	HA	ASP	37	-7.676	-1.063	-10.601	0.00	0.00	H
ATOM	590	ZHB	ASP	37	-7.533	1.967	-10.478	0.00	0.00	H
ATOM	591	ZHB	ASP	37	-6.337	0.905	-11.200	0.00	0.00	H
ATOM	592	N	THR	38	-7.489	0.414	-7.681	0.00	0.00	N
ATOM	593	CA	THR	38	-6.850	0.307	-6.370	0.00	0.00	C
ATOM	594	C	THR	38	-6.911	-1.145	-5.881	0.00	0.00	C
ATOM	595	O	THR	38	-6.000	-1.576	-5.182	0.00	0.00	O
ATOM	596	CB	THR	38	-7.535	1.256	-5.360	0.00	0.00	C
ATOM	597	CG2	THR	38	-6.928	1.174	-3.951	0.00	0.00	C
ATOM	598	OG1	THR	38	-7.436	2.598	-5.782	0.00	0.00	O
ATOM	599	H	THR	38	-8.397	0.853	-7.714	0.00	0.00	H
ATOM	600	HA	THR	38	-5.802	0.600	-6.466	0.00	0.00	H

ATOM	601	HB	THR	38	-8.591	0.999	-5.290	0.00	0.00	H
ATOM	602	1HG	THR	38	-7.882	2.685	-6.627	0.00	0.00	H
ATOM	603	1HG2	THR	38	-7.385	1.930	-3.313	0.00	0.00	H
ATOM	604	2HG2	THR	38	-7.125	0.198	-3.508	0.00	0.00	H
ATOM	605	3HG2	THR	38	-5.851	1.338	-3.996	0.00	0.00	H
ATOM	606	N	GLU	39	-7.957	-1.897	-6.259	0.00	0.00	N
ATOM	607	CA	GLU	39	-8.192	-3.256	-5.791	0.00	0.00	C
ATOM	608	C	GLU	39	-7.160	-4.233	-6.367	0.00	0.00	C
ATOM	609	O	GLU	39	-6.657	-5.081	-5.632	0.00	0.00	O
ATOM	610	CB	GLU	39	-9.630	-3.658	-6.163	0.00	0.00	C
ATOM	611	CG	GLU	39	-10.108	-4.873	-5.361	0.00	0.00	C
ATOM	612	CD	GLU	39	-11.509	-5.309	-5.784	0.00	0.00	C
ATOM	613	OE1	GLU	39	-12.475	-4.800	-5.176	0.00	0.00	O
ATOM	614	OE2	GLU	39	-11.588	-6.150	-6.707	0.00	0.00	O
ATOM	615	H	GLU	39	-8.663	-1.489	-6.856	0.00	0.00	H
ATOM	616	HA	GLU	39	-8.103	-3.256	-4.704	0.00	0.00	H
ATOM	617	2HB	GLU	39	-10.305	-2.826	-5.957	0.00	0.00	H
ATOM	618	3HB	GLU	39	-9.680	-3.883	-7.230	0.00	0.00	H
ATOM	619	2HG	GLU	39	-9.418	-5.700	-5.508	0.00	0.00	H
ATOM	620	3HG	GLU	39	-10.117	-4.624	-4.301	0.00	0.00	H
ATOM	621	N	GLU	40	-6.823	-4.094	-7.659	0.00	0.00	N
ATOM	622	CA	GLU	40	-5.914	-4.988	-8.370	0.00	0.00	C
ATOM	623	C	GLU	40	-4.443	-4.594	-8.166	0.00	0.00	C
ATOM	624	O	GLU	40	-3.585	-5.478	-8.144	0.00	0.00	O
ATOM	625	CB	GLU	40	-6.328	-5.004	-9.851	0.00	0.00	C
ATOM	626	CG	GLU	40	-5.533	-5.995	-10.714	0.00	0.00	C
ATOM	627	CD	GLU	40	-5.698	-7.449	-10.269	0.00	0.00	C
ATOM	628	OE1	GLU	40	-6.812	-7.980	-10.463	0.00	0.00	O
ATOM	629	OE2	GLU	40	-4.705	-8.009	-9.752	0.00	0.00	O
ATOM	630	H	GLU	40	-7.257	-3.359	-8.200	0.00	0.00	H
ATOM	631	HA	GLU	40	-6.047	-5.995	-7.973	0.00	0.00	H
ATOM	632	2HB	GLU	40	-7.387	-5.259	-9.921	0.00	0.00	H
ATOM	633	3HB	GLU	40	-6.198	-4.003	-10.263	0.00	0.00	H
ATOM	634	2HG	GLU	40	-5.870	-5.908	-11.747	0.00	0.00	H
ATOM	635	3HG	GLU	40	-4.482	-5.726	-10.680	0.00	0.00	H
ATOM	636	N	VAL	41	-4.152	-3.296	-7.968	0.00	0.00	N
ATOM	637	CA	VAL	41	-2.813	-2.804	-7.641	0.00	0.00	C
ATOM	638	C	VAL	41	-2.447	-3.167	-6.194	0.00	0.00	C
ATOM	639	O	VAL	41	-1.273	-3.416	-5.928	0.00	0.00	O
ATOM	640	CB	VAL	41	-2.734	-1.281	-7.905	0.00	0.00	C
ATOM	641	CG1	VAL	41	-1.445	-0.647	-7.356	0.00	0.00	C
ATOM	642	CG2	VAL	41	-2.782	-0.979	-9.412	0.00	0.00	C
ATOM	643	H	VAL	41	-4.900	-2.618	-7.994	0.00	0.00	H
ATOM	644	HA	VAL	41	-2.095	-3.297	-8.298	0.00	0.00	H
ATOM	645	HB	VAL	41	-3.580	-0.793	-7.419	0.00	0.00	H
ATOM	646	1HG1	VAL	41	-0.573	-1.181	-7.732	0.00	0.00	H
ATOM	647	2HG1	VAL	41	-1.379	0.392	-7.671	0.00	0.00	H
ATOM	648	3HG1	VAL	41	-1.448	-0.670	-6.267	0.00	0.00	H
ATOM	649	1HG2	VAL	41	-3.642	-1.458	-9.875	0.00	0.00	H
ATOM	650	2HG2	VAL	41	-2.861	0.095	-9.566	0.00	0.00	H
ATOM	651	3HG2	VAL	41	-1.875	-1.340	-9.894	0.00	0.00	H
ATOM	652	N	PHE	42	-3.428	-3.233	-5.277	0.00	0.00	N
ATOM	653	CA	PHE	42	-3.199	-3.583	-3.879	0.00	0.00	C
ATOM	654	C	PHE	42	-2.940	-5.083	-3.719	0.00	0.00	C
ATOM	655	O	PHE	42	-2.043	-5.448	-2.964	0.00	0.00	O
ATOM	656	CB	PHE	42	-4.391	-3.141	-3.020	0.00	0.00	C
ATOM	657	CG	PHE	42	-4.217	-3.411	-1.536	0.00	0.00	C
ATOM	658	CD1	PHE	42	-3.766	-2.387	-0.682	0.00	0.00	C
ATOM	659	CD2	PHE	42	-4.485	-4.689	-1.007	0.00	0.00	C
ATOM	660	CE1	PHE	42	-3.574	-2.638	0.684	0.00	0.00	C
ATOM	661	CE2	PHE	42	-4.302	-4.938	0.364	0.00	0.00	C
ATOM	662	CZ	PHE	42	-3.845	-3.912	1.206	0.00	0.00	C
ATOM	663	H	PHE	42	-4.378	-3.031	-5.555	0.00	0.00	H
ATOM	664	HA	PHE	42	-2.319	-3.041	-3.530	0.00	0.00	H
ATOM	665	2HB	PHE	42	-4.534	-2.069	-3.152	0.00	0.00	H
ATOM	666	3HB	PHE	42	-5.294	-3.647	-3.366	0.00	0.00	H
ATOM	667	HD1	PHE	42	-3.565	-1.404	-1.073	0.00	0.00	H
ATOM	668	HD2	PHE	42	-4.826	-5.483	-1.652	0.00	0.00	H
ATOM	669	HE1	PHE	42	-3.217	-1.852	1.331	0.00	0.00	H
ATOM	670	HE2	PHE	42	-4.513	-5.915	0.772	0.00	0.00	H
ATOM	671	HZ	PHE	42	-3.703	-4.102	2.254	0.00	0.00	H
ATOM	672	N	ARG	43	-3.697	-5.943	-4.420	0.00	0.00	N
ATOM	673	CA	ARG	43	-3.560	-7.396	-4.325	0.00	0.00	C
ATOM	674	C	ARG	43	-2.273	-7.901	-4.988	0.00	0.00	C
ATOM	675	O	ARG	43	-1.788	-8.967	-4.612	0.00	0.00	O
ATOM	676	CB	ARG	43	-4.787	-8.078	-4.947	0.00	0.00	C
ATOM	677	CG	ARG	43	-6.012	-7.970	-4.028	0.00	0.00	C
ATOM	678	CD	ARG	43	-7.241	-8.713	-4.568	0.00	0.00	C
ATOM	679	NE	ARG	43	-7.955	-7.956	-5.607	0.00	0.00	N
ATOM	680	CZ	ARG	43	-7.783	-8.040	-6.939	0.00	0.00	C
ATOM	681	NH1	ARG	43	-6.867	-8.849	-7.486	0.00	0.00	N
ATOM	682	NH2	ARG	43	-8.549	-7.293	-7.744	0.00	0.00	N
ATOM	683	H	ARG	43	-4.416	-5.582	-5.032	0.00	0.00	H
ATOM	684	HA	ARG	43	-3.515	-7.668	-3.269	0.00	0.00	H
ATOM	685	2HB	ARG	43	-4.997	-7.627	-5.917	0.00	0.00	H
ATOM	686	3HB	ARG	43	-4.564	-9.135	-5.092	0.00	0.00	H
ATOM	687	2HG	ARG	43	-5.759	-8.404	-3.062	0.00	0.00	H
ATOM	688	3HG	ARG	43	-6.256	-6.923	-3.864	0.00	0.00	H
ATOM	689	2HD	ARG	43	-6.950	-9.694	-4.938	0.00	0.00	H
ATOM	690	3HD	ARG	43	-7.934	-8.865	-3.740	0.00	0.00	H
ATOM	691	HE	ARG	43	-8.662	-7.315	-5.275	0.00	0.00	H
ATOM	692	1HH1	ARG	43	-6.278	-9.418	-6.894	0.00	0.00	H
ATOM	693	2HH1	ARG	43	-6.758	-8.883	-8.489	0.00	0.00	H
ATOM	694	1HH2	ARG	43	-9.247	-6.678	-7.351	0.00	0.00	H
ATOM	695	2HH2	ARG	43	-8.425	-7.342	-8.746	0.00	0.00	H
ATOM	696	N	SER	44	-1.710	-7.128	-5.927	0.00	0.00	N
ATOM	697	CA	SER	44	-0.414	-7.383	-6.546	0.00	0.00	C
ATOM	698	C	SER	44	0.731	-6.729	-5.757	0.00	0.00	C
ATOM	699	O	SER	44	1.865	-7.192	-5.860	0.00	0.00	O
ATOM	700	CB	SER	44	-0.473	-6.897	-7.996	0.00	0.00	C
ATOM	701	DG	SER	44	-1.287	-7.766	-8.755	0.00	0.00	O
ATOM	702	H	SER	44	-2.174	-6.270	-6.188	0.00	0.00	H
ATOM	703	HA	SER	44	-0.228	-8.457	-6.560	0.00	0.00	H
ATOM	704	2HB	SER	44	-0.893	-5.893	-8.033	0.00	0.00	H
ATOM	705	3HB	SER	44	0.526	-6.882	-8.426	0.00	0.00	H

ATOM	706	HG	SER	44	-2.188	-7.701	-8.431	0.00	0.00	H
ATOM	707	N	TYR	45	0.436	-5.717	-4.924	0.00	0.00	N
ATOM	708	CA	TYR	45	1.352	-5.183	-3.916	0.00	0.00	C
ATOM	709	C	TYR	45	1.255	-5.961	-2.584	0.00	0.00	C
ATOM	710	O	TYR	45	1.893	-5.585	-1.602	0.00	0.00	O
ATOM	711	CB	TYR	45	1.125	-3.668	-3.767	0.00	0.00	C
ATOM	712	CG	TYR	45	2.185	-2.974	-2.932	0.00	0.00	C
ATOM	713	CD1	TYR	45	3.486	-2.818	-3.445	0.00	0.00	C
ATOM	714	CD2	TYR	45	1.900	-2.568	-1.615	0.00	0.00	C
ATOM	715	CE1	TYR	45	4.503	-2.280	-2.639	0.00	0.00	C
ATOM	716	CE2	TYR	45	2.922	-2.055	-0.799	0.00	0.00	C
ATOM	717	CZ	TYR	45	4.232	-1.910	-1.305	0.00	0.00	C
ATOM	718	OH	TYR	45	5.234	-1.433	-0.511	0.00	0.00	O
ATOM	719	H	TYR	45	-0.515	-5.376	-4.896	0.00	0.00	H
ATOM	720	HA	TYR	45	2.367	-5.317	-4.289	0.00	0.00	H
ATOM	721	ZHB	TYR	45	1.138	-3.212	-4.759	0.00	0.00	H
ATOM	722	ZHB	TYR	45	0.141	-3.493	-3.330	0.00	0.00	H
ATOM	723	HD1	TYR	45	3.708	-3.135	-4.453	0.00	0.00	H
ATOM	724	HD2	TYR	45	0.906	-2.693	-1.212	0.00	0.00	H
ATOM	725	HE1	TYR	45	5.504	-2.179	-3.021	0.00	0.00	H
ATOM	726	HE2	TYR	45	2.713	-1.797	0.224	0.00	0.00	H
ATOM	727	HH	TYR	45	6.079	-1.384	-0.963	0.00	0.00	H
ATOM	728	N	VAL	46	0.487	-7.063	-2.553	0.00	0.00	N
ATOM	729	CA	VAL	46	0.458	-8.041	-1.470	0.00	0.00	C
ATOM	730	C	VAL	46	1.145	-9.321	-1.952	0.00	0.00	C
ATOM	731	O	VAL	46	1.963	-9.872	-1.218	0.00	0.00	O
ATOM	732	CB	VAL	46	-1.000	-8.279	-1.007	0.00	0.00	C
ATOM	733	CG1	VAL	46	-1.152	-9.552	-0.156	0.00	0.00	C
ATOM	734	CG2	VAL	46	-1.533	-7.104	-0.171	0.00	0.00	C
ATOM	735	H	VAL	46	-0.036	-7.302	-3.383	0.00	0.00	H
ATOM	736	HA	VAL	46	1.025	-7.668	-0.620	0.00	0.00	H
ATOM	737	HB	VAL	46	-1.633	-8.391	-1.888	0.00	0.00	H
ATOM	738	1HG1	VAL	46	-2.171	-9.619	0.223	0.00	0.00	H
ATOM	739	2HG1	VAL	46	-0.958	-10.438	-0.760	0.00	0.00	H
ATOM	740	3HG1	VAL	46	-0.458	-9.528	0.686	0.00	0.00	H
ATOM	741	1HG2	VAL	46	-1.304	-6.151	-0.646	0.00	0.00	H
ATOM	742	2HG2	VAL	46	-2.614	-7.199	-0.070	0.00	0.00	H
ATOM	743	3HG2	VAL	46	-1.089	-7.111	0.823	0.00	0.00	H
ATOM	744	N	PHE	47	0.828	-9.781	-3.172	0.00	0.00	N
ATOM	745	CA	PHE	47	1.277	-11.067	-3.686	0.00	0.00	C
ATOM	746	C	PHE	47	2.731	-11.008	-4.160	0.00	0.00	C
ATOM	747	O	PHE	47	3.530	-11.822	-3.702	0.00	0.00	O
ATOM	748	CB	PHE	47	0.336	-11.538	-4.801	0.00	0.00	C
ATOM	749	CG	PHE	47	0.758	-12.847	-5.442	0.00	0.00	C
ATOM	750	CD1	PHE	47	0.838	-14.019	-4.664	0.00	0.00	C
ATOM	751	CD2	PHE	47	1.109	-12.890	-6.805	0.00	0.00	C
ATOM	752	CE1	PHE	47	1.279	-15.222	-5.243	0.00	0.00	C
ATOM	753	CE2	PHE	47	1.540	-14.096	-7.385	0.00	0.00	C
ATOM	754	CZ	PHE	47	1.629	-15.261	-6.603	0.00	0.00	C
ATOM	755	H	PHE	47	0.166	-9.265	-3.735	0.00	0.00	H
ATOM	756	HA	PHE	47	1.215	-11.793	-2.874	0.00	0.00	H
ATOM	757	ZHB	PHE	47	-0.667	-11.660	-4.390	0.00	0.00	H
ATOM	758	ZHB	PHE	47	0.294	-10.763	-5.568	0.00	0.00	H
ATOM	759	HD1	PHE	47	0.576	-13.997	-3.617	0.00	0.00	H
ATOM	760	HD2	PHE	47	1.053	-11.996	-7.410	0.00	0.00	H
ATOM	761	HE1	PHE	47	1.355	-16.113	-4.638	0.00	0.00	H
ATOM	762	HE2	PHE	47	1.808	-14.127	-8.431	0.00	0.00	H
ATOM	763	HZ	PHE	47	1.968	-16.185	-7.047	0.00	0.00	H
ATOM	764	N	TYR	48	3.076	-10.056	-5.044	0.00	0.00	N
ATOM	765	CA	TYR	48	4.430	-9.929	-5.578	0.00	0.00	C
ATOM	766	C	TYR	48	5.385	-9.236	-4.600	0.00	0.00	C
ATOM	767	O	TYR	48	6.593	-9.422	-4.722	0.00	0.00	O
ATOM	768	CB	TYR	48	4.429	-9.192	-6.922	0.00	0.00	C
ATOM	769	CG	TYR	48	3.613	-9.855	-8.015	0.00	0.00	C
ATOM	770	CD1	TYR	48	3.974	-11.131	-8.491	0.00	0.00	C
ATOM	771	CD2	TYR	48	2.518	-9.181	-8.587	0.00	0.00	C
ATOM	772	CE1	TYR	48	3.236	-11.738	-9.521	0.00	0.00	C
ATOM	773	CE2	TYR	48	1.782	-9.773	-9.626	0.00	0.00	C
ATOM	774	CZ	TYR	48	2.134	-11.060	-10.095	0.00	0.00	C
ATOM	775	OH	TYR	48	1.420	-11.640	-11.101	0.00	0.00	O
ATOM	776	H	TYR	48	2.377	-9.408	-5.378	0.00	0.00	H
ATOM	777	HA	TYR	48	4.811	-10.933	-5.762	0.00	0.00	H
ATOM	778	ZHB	TYR	48	4.083	-8.170	-6.771	0.00	0.00	H
ATOM	779	ZHB	TYR	48	5.459	-9.130	-7.274	0.00	0.00	H
ATOM	780	HD1	TYR	48	4.825	-11.645	-8.069	0.00	0.00	H
ATOM	781	HD2	TYR	48	2.257	-8.193	-8.246	0.00	0.00	H
ATOM	782	HE1	TYR	48	3.518	-12.717	-9.879	0.00	0.00	H
ATOM	783	HE2	TYR	48	0.956	-9.238	-10.070	0.00	0.00	H
ATOM	784	HH	TYR	48	1.747	-12.511	-11.339	0.00	0.00	H
ATOM	785	N	ARG	49	4.864	-8.470	-3.629	0.00	0.00	N
ATOM	786	CA	ARG	49	5.676	-7.824	-2.605	0.00	0.00	C
ATOM	787	C	ARG	49	6.143	-8.846	-1.559	0.00	0.00	C
ATOM	788	O	ARG	49	7.281	-8.765	-1.101	0.00	0.00	O
ATOM	789	CB	ARG	49	4.860	-6.679	-1.982	0.00	0.00	C
ATOM	790	CG	ARG	49	5.657	-5.810	-0.999	0.00	0.00	C
ATOM	791	CD	ARG	49	6.771	-4.992	-1.666	0.00	0.00	C
ATOM	792	NE	ARG	49	7.979	-4.957	-0.830	0.00	0.00	N
ATOM	793	CZ	ARG	49	9.098	-5.675	-1.035	0.00	0.00	C
ATOM	794	NH1	ARG	49	9.258	-6.460	-2.108	0.00	0.00	N
ATOM	795	NH2	ARG	49	10.082	-5.608	-0.135	0.00	0.00	N
ATOM	796	H	ARG	49	3.863	-8.351	-3.573	0.00	0.00	H
ATOM	797	HA	ARG	49	6.559	-7.407	-3.088	0.00	0.00	H
ATOM	798	ZHB	ARG	49	4.473	-6.037	-2.776	0.00	0.00	H
ATOM	799	ZHB	ARG	49	4.014	-7.114	-1.449	0.00	0.00	H
ATOM	800	ZHG	ARG	49	4.972	-5.117	-0.511	0.00	0.00	H
ATOM	801	ZHG	ARG	49	6.081	-6.455	-0.229	0.00	0.00	H
ATOM	802	ZHD	ARG	49	7.008	-5.398	-2.647	0.00	0.00	H
ATOM	803	ZHD	ARG	49	6.421	-3.972	-1.810	0.00	0.00	H
ATOM	804	HE	ARG	49	7.937	-4.375	-0.006	0.00	0.00	H
ATOM	805	1HH1	ARG	49	8.527	-6.525	-2.802	0.00	0.00	H
ATOM	806	2HH1	ARG	49	10.113	-6.984	-2.227	0.00	0.00	H
ATOM	807	1HH2	ARG	49	9.981	-5.025	0.682	0.00	0.00	H
ATOM	808	2HH2	ARG	49	10.930	-6.140	-0.275	0.00	0.00	H
ATOM	809	N	HIP	50	5.293	-9.830	-1.228	0.00	0.00	N
ATOM	810	CA	HIP	50	5.624	-10.927	-0.324	0.00	0.00	C

ATOM	811	C	HIP	50	6.462	-12.009	-1.021	0.00	0.00	C
ATOM	812	O	HIP	50	7.232	-12.691	-0.351	0.00	0.00	O
ATOM	813	CB	HIP	50	4.319	-11.508	0.229	0.00	0.00	C
ATOM	814	CG	HIP	50	4.511	-12.517	1.330	0.00	0.00	C
ATOM	815	CD2	HIP	50	4.743	-12.235	2.649	0.00	0.00	C
ATOM	816	ND1	HIP	50	4.458	-13.892	1.196	0.00	0.00	N
ATOM	817	CE1	HIP	50	4.660	-14.432	2.411	0.00	0.00	C
ATOM	818	NE2	HIP	50	4.835	-13.444	3.308	0.00	0.00	N
ATOM	819	H	HIP	50	4.374	-9.844	-1.648	0.00	0.00	H
ATOM	820	HA	HIP	50	6.201	-10.527	0.511	0.00	0.00	H
ATOM	821	ZHB	HIP	50	3.710	-10.696	0.627	0.00	0.00	H
ATOM	822	3HB	HIP	50	3.769	-11.976	-0.590	0.00	0.00	H
ATOM	823	HD1	HIP	50	4.305	-14.401	0.337	0.00	0.00	H
ATOM	824	HD2	HIP	50	4.832	-11.254	3.092	0.00	0.00	H
ATOM	825	HE1	HIP	50	4.686	-15.489	2.631	0.00	0.00	H
ATOM	826	HE2	HIP	50	5.006	-13.568	4.296	0.00	0.00	H
ATOM	827	N	GLN	51	6.339	-12.146	-2.351	0.00	0.00	N
ATOM	828	CA	GLN	51	7.106	-13.090	-3.158	0.00	0.00	C
ATOM	829	C	GLN	51	8.556	-12.618	-3.338	0.00	0.00	C
ATOM	830	O	GLN	51	9.457	-13.450	-3.405	0.00	0.00	O
ATOM	831	CB	GLN	51	6.385	-13.262	-4.506	0.00	0.00	C
ATOM	832	CG	GLN	51	7.058	-14.282	-5.435	0.00	0.00	C
ATOM	833	CD	GLN	51	6.237	-14.628	-6.680	0.00	0.00	C
ATOM	834	NE2	GLN	51	6.740	-15.578	-7.472	0.00	0.00	N
ATOM	835	OE1	GLN	51	5.172	-14.064	-6.932	0.00	0.00	O
ATOM	836	H	GLN	51	5.687	-11.550	-2.843	0.00	0.00	H
ATOM	837	HA	GLN	51	7.113	-14.054	-2.648	0.00	0.00	H
ATOM	838	ZHB	GLN	51	5.369	-13.603	-4.306	0.00	0.00	H
ATOM	839	3HB	GLN	51	6.345	-12.301	-5.017	0.00	0.00	H
ATOM	840	ZHG	GLN	51	8.029	-13.901	-5.753	0.00	0.00	H
ATOM	841	3HG	GLN	51	7.222	-15.198	-4.875	0.00	0.00	H
ATOM	842	1HE2	GLN	51	6.244	-15.856	-8.305	0.00	0.00	H
ATOM	843	ZHE2	GLN	51	7.614	-16.025	-7.231	0.00	0.00	H
ATOM	844	N	GLN	52	8.782	-11.296	-3.371	0.00	0.00	N
ATOM	845	CA	GLN	52	10.104	-10.683	-3.468	0.00	0.00	C
ATOM	846	C	GLN	52	10.815	-10.616	-2.106	0.00	0.00	C
ATOM	847	O	GLN	52	12.022	-10.381	-2.081	0.00	0.00	O
ATOM	848	CB	GLN	52	9.958	-9.285	-4.090	0.00	0.00	C
ATOM	849	CG	GLN	52	9.677	-9.345	-5.603	0.00	0.00	C
ATOM	850	CD	GLN	52	9.299	-7.983	-6.198	0.00	0.00	C
ATOM	851	NE2	GLN	52	8.736	-7.991	-7.409	0.00	0.00	N
ATOM	852	OE1	GLN	52	9.508	-6.939	-5.585	0.00	0.00	O
ATOM	853	H	GLN	52	7.994	-10.668	-3.304	0.00	0.00	H
ATOM	854	HA	GLN	52	10.723	-11.287	-4.133	0.00	0.00	H
ATOM	855	ZHB	GLN	52	9.144	-8.761	-3.588	0.00	0.00	H
ATOM	856	3HB	GLN	52	10.879	-8.720	-3.936	0.00	0.00	H
ATOM	857	ZHG	GLN	52	10.564	-9.718	-6.115	0.00	0.00	H
ATOM	858	3HG	GLN	52	8.868	-10.048	-5.799	0.00	0.00	H
ATOM	859	1HE2	GLN	52	8.470	-7.120	-7.846	0.00	0.00	H
ATOM	860	ZHE2	GLN	52	8.579	-8.867	-7.887	0.00	0.00	H
ATOM	861	N	GLU	53	10.094	-10.843	-0.993	0.00	0.00	N
ATOM	862	CA	GLU	53	10.652	-10.921	0.358	0.00	0.00	C
ATOM	863	C	GLU	53	10.900	-12.372	0.791	0.00	0.00	C
ATOM	864	O	GLU	53	11.775	-12.605	1.621	0.00	0.00	O
ATOM	865	CB	GLU	53	9.731	-10.191	1.345	0.00	0.00	C
ATOM	866	CG	GLU	53	9.853	-8.671	1.179	0.00	0.00	C
ATOM	867	CD	GLU	53	8.943	-7.918	2.146	0.00	0.00	C
ATOM	868	OE1	GLU	53	9.335	-7.801	3.329	0.00	0.00	O
ATOM	869	OE2	GLU	53	7.874	-7.464	1.688	0.00	0.00	O
ATOM	870	H	GLU	53	9.106	-11.024	-1.086	0.00	0.00	H
ATOM	871	HA	GLU	53	11.617	-10.414	0.372	0.00	0.00	H
ATOM	872	ZHB	GLU	53	8.697	-10.503	1.191	0.00	0.00	H
ATOM	873	3HB	GLU	53	10.024	-10.449	2.364	0.00	0.00	H
ATOM	874	ZHG	GLU	53	10.887	-8.372	1.360	0.00	0.00	H
ATOM	875	3HG	GLU	53	9.598	-8.397	0.156	0.00	0.00	H
ATOM	876	N	GLN	54	10.186	-13.341	0.198	0.00	0.00	N
ATOM	877	CA	GLN	54	10.501	-14.764	0.297	0.00	0.00	C
ATOM	878	C	GLN	54	11.678	-15.130	-0.623	0.00	0.00	C
ATOM	879	O	GLN	54	12.337	-16.140	-0.383	0.00	0.00	O
ATOM	880	CB	GLN	54	9.258	-15.586	-0.076	0.00	0.00	C
ATOM	881	CG	GLN	54	8.170	-15.596	1.007	0.00	0.00	C
ATOM	882	CD	GLN	54	6.908	-16.325	0.530	0.00	0.00	C
ATOM	883	NE2	GLN	54	6.437	-17.301	1.310	0.00	0.00	N
ATOM	884	OE1	GLN	54	6.360	-16.012	-0.526	0.00	0.00	O
ATOM	885	H	GLN	54	9.468	-13.080	-0.463	0.00	0.00	H
ATOM	886	HA	GLN	54	10.781	-15.003	1.323	0.00	0.00	H
ATOM	887	ZHB	GLN	54	8.844	-15.190	-1.003	0.00	0.00	H
ATOM	888	3HB	GLN	54	9.565	-16.619	-0.244	0.00	0.00	H
ATOM	889	ZHG	GLN	54	8.569	-16.088	1.895	0.00	0.00	H
ATOM	890	3HG	GLN	54	7.904	-14.578	1.286	0.00	0.00	H
ATOM	891	1HE2	GLN	54	5.611	-17.812	1.033	0.00	0.00	H
ATOM	892	ZHE2	GLN	54	6.912	-17.534	2.170	0.00	0.00	H
ATOM	893	N	GLU	55	11.955	-14.307	-1.648	0.00	0.00	N
ATOM	894	CA	GLU	55	13.092	-14.448	-2.551	0.00	0.00	C
ATOM	895	C	GLU	55	14.284	-13.585	-2.097	0.00	0.00	C
ATOM	896	O	GLU	55	15.404	-13.823	-2.548	0.00	0.00	O
ATOM	897	CB	GLU	55	12.611	-14.152	-3.980	0.00	0.00	C
ATOM	898	CG	GLU	55	13.619	-14.553	-5.065	0.00	0.00	C
ATOM	899	CD	GLU	55	12.956	-14.564	-6.441	0.00	0.00	C
ATOM	900	OE1	GLU	55	12.962	-13.494	-7.089	0.00	0.00	O
ATOM	901	OE2	GLU	55	12.442	-15.640	-6.819	0.00	0.00	O
ATOM	902	H	GLU	55	11.366	-13.499	-1.789	0.00	0.00	H
ATOM	903	HA	GLU	55	13.421	-15.486	-2.523	0.00	0.00	H
ATOM	904	ZHB	GLU	55	11.700	-14.725	-4.155	0.00	0.00	H
ATOM	905	3HB	GLU	55	12.375	-13.092	-4.076	0.00	0.00	H
ATOM	906	ZHG	GLU	55	14.454	-13.850	-5.068	0.00	0.00	H
ATOM	907	3HG	GLU	55	14.010	-15.549	-4.852	0.00	0.00	H
ATOM	908	N	ALA	56	14.066	-12.654	-1.151	0.00	0.00	N
ATOM	909	CA	ALA	56	15.130	-12.054	-0.348	0.00	0.00	C
ATOM	910	C	ALA	56	15.611	-13.021	0.749	0.00	0.00	C
ATOM	911	O	ALA	56	16.734	-12.873	1.229	0.00	0.00	O
ATOM	912	CB	ALA	56	14.636	-10.736	0.257	0.00	0.00	C
ATOM	913	H	ALA	56	13.119	-12.490	-0.840	0.00	0.00	H
ATOM	914	HA	ALA	56	15.973	-11.826	-1.003	0.00	0.00	H
ATOM	915	1HB	ALA	56	14.303	-10.065	-0.535	0.00	0.00	H

ATOM	916	ZHB	ALA	56	13.814	-10.925	0.946	0.00	0.00	H
ATOM	917	3HB	ALA	56	15.450	-10.258	0.802	0.00	0.00	H
ATOM	918	N	GLU	57	14.791	-14.029	1.098	0.00	0.00	N
ATOM	919	CA	GLU	57	15.178	-15.187	1.904	0.00	0.00	C
ATOM	920	C	GLU	57	15.794	-16.305	1.034	0.00	0.00	C
ATOM	921	O	GLU	57	16.136	-17.364	1.559	0.00	0.00	O
ATOM	922	CB	GLU	57	13.968	-15.683	2.717	0.00	0.00	C
ATOM	923	CG	GLU	57	13.545	-14.689	3.809	0.00	0.00	C
ATOM	924	CD	GLU	57	12.259	-15.144	4.498	0.00	0.00	C
ATOM	925	OE1	GLU	57	11.176	-14.776	3.992	0.00	0.00	O
ATOM	926	OE2	GLU	57	12.379	-15.857	5.519	0.00	0.00	O
ATOM	927	H	GLU	57	13.874	-14.066	0.676	0.00	0.00	H
ATOM	928	HA	GLU	57	15.946	-14.874	2.612	0.00	0.00	H
ATOM	929	ZHB	GLU	57	13.128	-15.861	2.048	0.00	0.00	H
ATOM	930	3HB	GLU	57	14.220	-16.626	3.203	0.00	0.00	H
ATOM	931	ZHG	GLU	57	14.344	-14.606	4.546	0.00	0.00	H
ATOM	932	3HG	GLU	57	13.383	-13.703	3.376	0.00	0.00	H
ATOM	933	N	GLY	58	15.964	-16.064	-0.278	0.00	0.00	N
ATOM	934	CA	GLY	58	16.698	-16.921	-1.202	0.00	0.00	C
ATOM	935	C	GLY	58	15.881	-18.059	-1.823	0.00	0.00	C
ATOM	936	O	GLY	58	16.448	-18.831	-2.596	0.00	0.00	O
ATOM	937	H	GLY	58	15.644	-15.180	-0.648	0.00	0.00	H
ATOM	938	ZHA	GLY	58	17.074	-16.293	-2.010	0.00	0.00	H
ATOM	939	3HA	GLY	58	17.555	-17.350	-0.681	0.00	0.00	H
ATOM	940	N	VAL	59	14.579	-18.172	-1.513	0.00	0.00	N
ATOM	941	CA	VAL	59	13.704	-19.201	-2.071	0.00	0.00	C
ATOM	942	C	VAL	59	13.269	-18.757	-3.472	0.00	0.00	C
ATOM	943	O	VAL	59	12.735	-17.660	-3.631	0.00	0.00	O
ATOM	944	CB	VAL	59	12.497	-19.476	-1.144	0.00	0.00	C
ATOM	945	CG1	VAL	59	11.691	-20.682	-1.658	0.00	0.00	C
ATOM	946	CG2	VAL	59	12.924	-19.754	0.309	0.00	0.00	C
ATOM	947	H	VAL	59	14.164	-17.508	-0.873	0.00	0.00	H
ATOM	948	HA	VAL	59	14.276	-20.127	-2.153	0.00	0.00	H
ATOM	949	HB	VAL	59	11.842	-18.606	-1.143	0.00	0.00	H
ATOM	950	1HG1	VAL	59	10.829	-20.854	-1.012	0.00	0.00	H
ATOM	951	2HG1	VAL	59	11.329	-20.496	-2.669	0.00	0.00	H
ATOM	952	3HG1	VAL	59	12.316	-21.576	-1.663	0.00	0.00	H
ATOM	953	1HG2	VAL	59	13.626	-20.588	0.340	0.00	0.00	H
ATOM	954	2HG2	VAL	59	13.393	-18.871	0.744	0.00	0.00	H
ATOM	955	3HG2	VAL	59	12.048	-20.000	0.911	0.00	0.00	H
ATOM	956	N	ALA	60	13.497	-19.615	-4.477	0.00	0.00	N
ATOM	957	CA	ALA	60	13.225	-19.318	-5.880	0.00	0.00	C
ATOM	958	C	ALA	60	11.752	-19.562	-6.223	0.00	0.00	C
ATOM	959	O	ALA	60	11.181	-20.578	-5.821	0.00	0.00	O
ATOM	960	CB	ALA	60	14.150	-20.151	-6.771	0.00	0.00	C
ATOM	961	H	ALA	60	13.926	-20.506	-4.272	0.00	0.00	H
ATOM	962	HA	ALA	60	13.456	-18.267	-6.059	0.00	0.00	H
ATOM	963	1HB	ALA	60	15.191	-19.929	-6.530	0.00	0.00	H
ATOM	964	ZHB	ALA	60	13.963	-21.214	-6.615	0.00	0.00	H
ATOM	965	3HB	ALA	60	13.969	-19.904	-7.818	0.00	0.00	H
ATOM	966	N	ALA	61	11.167	-18.620	-6.983	0.00	0.00	N
ATOM	967	CA	ALA	61	9.760	-18.569	-7.384	0.00	0.00	C
ATOM	968	C	ALA	61	8.787	-18.946	-6.244	0.00	0.00	C
ATOM	969	O	ALA	61	8.029	-19.907	-6.391	0.00	0.00	O
ATOM	970	CB	ALA	61	9.567	-19.398	-8.663	0.00	0.00	C
ATOM	971	H	ALA	61	11.733	-17.834	-7.270	0.00	0.00	H
ATOM	972	HA	ALA	61	9.550	-17.531	-7.647	0.00	0.00	H
ATOM	973	1HB	ALA	61	9.776	-20.450	-8.464	0.00	0.00	H
ATOM	974	ZHB	ALA	61	10.245	-19.040	-9.439	0.00	0.00	H
ATOM	975	3HB	ALA	61	8.541	-19.295	-9.018	0.00	0.00	H
ATOM	976	N	PRO	62	8.827	-18.255	-5.084	0.00	0.00	N
ATOM	977	CA	PRO	62	8.149	-18.695	-3.869	0.00	0.00	C
ATOM	978	C	PRO	62	6.661	-18.317	-3.851	0.00	0.00	C
ATOM	979	O	PRO	62	6.187	-17.532	-4.674	0.00	0.00	O
ATOM	980	CB	PRO	62	8.926	-18.035	-2.730	0.00	0.00	C
ATOM	981	CG	PRO	62	9.353	-16.706	-3.343	0.00	0.00	C
ATOM	982	CD	PRO	62	9.604	-17.051	-4.809	0.00	0.00	C
ATOM	983	HA	PRO	62	8.237	-19.777	-3.765	0.00	0.00	H
ATOM	984	ZHB	PRO	62	9.810	-18.629	-2.503	0.00	0.00	H
ATOM	985	3HB	PRO	62	8.319	-17.899	-1.836	0.00	0.00	H
ATOM	986	ZHG	PRO	62	8.534	-15.995	-3.259	0.00	0.00	H
ATOM	987	3HG	PRO	62	10.251	-16.317	-2.865	0.00	0.00	H
ATOM	988	ZHD	PRO	62	9.298	-16.230	-5.454	0.00	0.00	H
ATOM	989	3HD	PRO	62	10.663	-17.250	-4.942	0.00	0.00	H
ATOM	990	N	ALA	63	5.934	-18.895	-2.886	0.00	0.00	N
ATOM	991	CA	ALA	63	4.518	-18.643	-2.638	0.00	0.00	C
ATOM	992	C	ALA	63	4.167	-18.950	-1.177	0.00	0.00	C
ATOM	993	O	ALA	63	4.931	-19.610	-0.468	0.00	0.00	O
ATOM	994	CB	ALA	63	3.677	-19.512	-3.582	0.00	0.00	C
ATOM	995	H	ALA	63	6.395	-19.532	-2.253	0.00	0.00	H
ATOM	996	HA	ALA	63	4.299	-17.593	-2.837	0.00	0.00	H
ATOM	997	1HB	ALA	63	2.618	-19.315	-3.420	0.00	0.00	H
ATOM	998	ZHB	ALA	63	3.918	-19.278	-4.620	0.00	0.00	H
ATOM	999	3HB	ALA	63	3.877	-20.568	-3.396	0.00	0.00	H
ATOM	1000	N	ASP	64	2.978	-18.498	-0.753	0.00	0.00	N
ATOM	1001	CA	ASP	64	2.370	-18.839	0.530	0.00	0.00	C
ATOM	1002	C	ASP	64	0.970	-19.429	0.252	0.00	0.00	C
ATOM	1003	O	ASP	64	0.244	-18.831	-0.544	0.00	0.00	O
ATOM	1004	CB	ASP	64	2.333	-17.594	1.435	0.00	0.00	C
ATOM	1005	CG	ASP	64	2.387	-17.955	2.921	0.00	0.00	C
ATOM	1006	OD1	ASP	64	1.473	-18.672	3.380	0.00	0.00	O
ATOM	1007	OD2	ASP	64	3.347	-17.503	3.582	0.00	0.00	O
ATOM	1008	H	ASP	64	2.411	-17.958	-1.392	0.00	0.00	H
ATOM	1009	HA	ASP	64	3.008	-19.567	1.019	0.00	0.00	H
ATOM	1010	ZHB	ASP	64	3.193	-16.962	1.206	0.00	0.00	H
ATOM	1011	3HB	ASP	64	1.432	-17.013	1.233	0.00	0.00	H
ATOM	1012	N	PRO	65	0.565	-20.570	0.861	0.00	0.00	N
ATOM	1013	CA	PRO	65	-0.649	-21.302	0.469	0.00	0.00	C
ATOM	1014	C	PRO	65	-1.997	-20.593	0.673	0.00	0.00	C
ATOM	1015	O	PRO	65	-3.003	-21.103	0.178	0.00	0.00	O
ATOM	1016	CB	PRO	65	-0.624	-22.611	1.267	0.00	0.00	C
ATOM	1017	CG	PRO	65	0.862	-22.852	1.489	0.00	0.00	C
ATOM	1018	CD	PRO	65	1.382	-21.436	1.708	0.00	0.00	C
ATOM	1019	HA	PRO	65	-0.550	-21.548	-0.589	0.00	0.00	H
ATOM	1020	ZHB	PRO	65	-1.087	-23.428	0.713	0.00	0.00	H

ATOM	1021	3HB	PRO	65	-1.117	-22.474	2.231	0.00	0.00	H
ATOM	1022	ZHG	PRO	65	1.046	-23.490	2.355	0.00	0.00	H
ATOM	1023	3HG	PRO	65	1.309	-23.278	0.590	0.00	0.00	H
ATOM	1024	ZHD	PRO	65	1.249	-21.156	2.752	0.00	0.00	H
ATOM	1025	3HD	PRO	65	2.436	-21.414	1.441	0.00	0.00	H
ATOM	1026	N	GLU	66	-2.033	-19.450	1.378	0.00	0.00	N
ATOM	1027	CA	GLU	66	-3.252	-18.678	1.644	0.00	0.00	C
ATOM	1028	C	GLU	66	-3.156	-17.232	1.120	0.00	0.00	C
ATOM	1029	O	GLU	66	-4.052	-16.429	1.379	0.00	0.00	O
ATOM	1030	CB	GLU	66	-3.619	-18.756	3.137	0.00	0.00	C
ATOM	1031	CG	GLU	66	-3.840	-20.198	3.618	0.00	0.00	C
ATOM	1032	CD	GLU	66	-4.318	-20.244	5.068	0.00	0.00	C
ATOM	1033	OE1	GLU	66	-3.456	-20.078	5.960	0.00	0.00	O
ATOM	1034	OE2	GLU	66	-5.535	-20.450	5.264	0.00	0.00	O
ATOM	1035	H	GLU	66	-1.172	-19.086	1.758	0.00	0.00	H
ATOM	1036	HA	GLU	66	-4.076	-19.136	1.095	0.00	0.00	H
ATOM	1037	ZHB	GLU	66	-2.830	-18.295	3.734	0.00	0.00	H
ATOM	1038	3HB	GLU	66	-4.543	-18.201	3.297	0.00	0.00	H
ATOM	1039	ZHG	GLU	66	-4.583	-20.678	2.978	0.00	0.00	H
ATOM	1040	3HG	GLU	66	-2.909	-20.762	3.543	0.00	0.00	H
ATOM	1041	N	MET	67	-2.095	-16.916	0.360	0.00	0.00	N
ATOM	1042	CA	MET	67	-1.919	-15.667	-0.380	0.00	0.00	C
ATOM	1043	C	MET	67	-2.053	-15.904	-1.897	0.00	0.00	C
ATOM	1044	O	MET	67	-2.241	-14.947	-2.647	0.00	0.00	O
ATOM	1045	CB	MET	67	-0.567	-15.053	0.014	0.00	0.00	C
ATOM	1046	CG	MET	67	-0.415	-13.605	-0.462	0.00	0.00	C
ATOM	1047	SD	MET	67	1.024	-12.736	0.209	0.00	0.00	S
ATOM	1048	CE	MET	67	0.519	-12.496	1.935	0.00	0.00	C
ATOM	1049	H	MET	67	-1.392	-17.623	0.208	0.00	0.00	H
ATOM	1050	HA	MET	67	-2.702	-14.969	-0.083	0.00	0.00	H
ATOM	1051	ZHB	MET	67	-0.490	-15.064	1.099	0.00	0.00	H
ATOM	1052	3HB	MET	67	0.245	-15.656	-0.397	0.00	0.00	H
ATOM	1053	ZHG	MET	67	-0.332	-13.602	-1.548	0.00	0.00	H
ATOM	1054	3HG	MET	67	-1.309	-13.046	-0.194	0.00	0.00	H
ATOM	1055	1HE	MET	67	1.277	-11.909	2.453	0.00	0.00	H
ATOM	1056	2HE	MET	67	-0.433	-11.967	1.968	0.00	0.00	H
ATOM	1057	3HE	MET	67	0.418	-13.462	2.429	0.00	0.00	H
ATOM	1058	N	VAL	68	-2.019	-17.172	-2.340	0.00	0.00	N
ATOM	1059	CA	VAL	68	-2.429	-17.590	-3.681	0.00	0.00	C
ATOM	1060	C	VAL	68	-3.962	-17.666	-3.798	0.00	0.00	C
ATOM	1061	O	VAL	68	-4.478	-17.620	-4.914	0.00	0.00	O
ATOM	1062	CB	VAL	68	-1.770	-18.935	-4.065	0.00	0.00	C
ATOM	1063	CG1	VAL	68	-0.248	-18.787	-4.205	0.00	0.00	C
ATOM	1064	CG2	VAL	68	-2.103	-20.078	-3.091	0.00	0.00	C
ATOM	1065	H	VAL	68	-1.836	-17.911	-1.676	0.00	0.00	H
ATOM	1066	HA	VAL	68	-2.084	-16.838	-4.393	0.00	0.00	H
ATOM	1067	HB	VAL	68	-2.153	-19.222	-5.046	0.00	0.00	H
ATOM	1068	1HG1	VAL	68	0.200	-18.491	-3.257	0.00	0.00	H
ATOM	1069	2HG1	VAL	68	-0.022	-18.033	-4.960	0.00	0.00	H
ATOM	1070	3HG1	VAL	68	0.189	-19.734	-4.524	0.00	0.00	H
ATOM	1071	1HG2	VAL	68	-3.182	-20.229	-3.039	0.00	0.00	H
ATOM	1072	2HG2	VAL	68	-1.644	-21.005	-3.438	0.00	0.00	H
ATOM	1073	3HG2	VAL	68	-1.725	-19.853	-2.095	0.00	0.00	H
ATOM	1074	N	THR	69	-4.680	-17.750	-2.665	0.00	0.00	N
ATOM	1075	CA	THR	69	-6.143	-17.722	-2.608	0.00	0.00	C
ATOM	1076	C	THR	69	-6.694	-16.288	-2.708	0.00	0.00	C
ATOM	1077	O	THR	69	-7.888	-16.118	-2.954	0.00	0.00	O
ATOM	1078	CB	THR	69	-6.657	-18.433	-1.340	0.00	0.00	C
ATOM	1079	CG2	THR	69	-6.200	-19.894	-1.252	0.00	0.00	C
ATOM	1080	OG1	THR	69	-6.256	-17.744	-0.173	0.00	0.00	O
ATOM	1081	H	THR	69	-4.192	-17.787	-1.781	0.00	0.00	H
ATOM	1082	HA	THR	69	-6.522	-18.277	-3.468	0.00	0.00	H
ATOM	1083	HB	THR	69	-7.746	-18.427	-1.372	0.00	0.00	H
ATOM	1084	1HG	THR	69	-5.298	-17.757	-0.124	0.00	0.00	H
ATOM	1085	1HG2	THR	69	-6.513	-20.432	-2.147	0.00	0.00	H
ATOM	1086	2HG2	THR	69	-5.114	-19.951	-1.162	0.00	0.00	H
ATOM	1087	3HG2	THR	69	-6.653	-20.367	-0.380	0.00	0.00	H
ATOM	1088	N	LEU	70	-5.830	-15.269	-2.558	0.00	0.00	N
ATOM	1089	CA	LEU	70	-6.143	-13.878	-2.854	0.00	0.00	C
ATOM	1090	C	LEU	70	-6.282	-13.726	-4.381	0.00	0.00	C
ATOM	1091	O	LEU	70	-5.441	-14.268	-5.102	0.00	0.00	O
ATOM	1092	CB	LEU	70	-5.009	-12.989	-2.313	0.00	0.00	C
ATOM	1093	CG	LEU	70	-5.292	-11.472	-2.329	0.00	0.00	C
ATOM	1094	CD1	LEU	70	-6.367	-11.070	-1.305	0.00	0.00	C
ATOM	1095	CD2	LEU	70	-3.984	-10.726	-2.026	0.00	0.00	C
ATOM	1096	H	LEU	70	-4.866	-15.479	-2.341	0.00	0.00	H
ATOM	1097	HA	LEU	70	-7.067	-13.628	-2.338	0.00	0.00	H
ATOM	1098	ZHB	LEU	70	-4.783	-13.290	-1.288	0.00	0.00	H
ATOM	1099	3HB	LEU	70	-4.120	-13.177	-2.915	0.00	0.00	H
ATOM	1100	HG	LEU	70	-5.625	-11.176	-3.323	0.00	0.00	H
ATOM	1101	1HD1	LEU	70	-6.060	-11.366	-0.302	0.00	0.00	H
ATOM	1102	2HD1	LEU	70	-6.513	-9.990	-1.326	0.00	0.00	H
ATOM	1103	3HD1	LEU	70	-7.315	-11.549	-1.540	0.00	0.00	H
ATOM	1104	1HD2	LEU	70	-4.161	-9.653	-1.975	0.00	0.00	H
ATOM	1105	2HD2	LEU	70	-3.579	-11.062	-1.073	0.00	0.00	H
ATOM	1106	3HD2	LEU	70	-3.253	-10.921	-2.812	0.00	0.00	H
ATOM	1107	N	PRO	71	-7.288	-12.986	-4.897	0.00	0.00	N
ATOM	1108	CA	PRO	71	-7.454	-12.760	-6.331	0.00	0.00	C
ATOM	1109	C	PRO	71	-6.240	-12.071	-6.961	0.00	0.00	C
ATOM	1110	O	PRO	71	-5.526	-11.321	-6.293	0.00	0.00	O
ATOM	1111	CB	PRO	71	-8.730	-11.924	-6.485	0.00	0.00	C
ATOM	1112	CG	PRO	71	-9.526	-12.266	-5.229	0.00	0.00	C
ATOM	1113	CD	PRO	71	-8.431	-12.442	-4.179	0.00	0.00	C
ATOM	1114	HA	PRO	71	-7.612	-13.727	-6.811	0.00	0.00	H
ATOM	1115	ZHB	PRO	71	-9.275	-12.184	-7.392	0.00	0.00	H
ATOM	1116	3HB	PRO	71	-8.491	-10.862	-6.475	0.00	0.00	H
ATOM	1117	ZHG	PRO	71	-10.221	-11.470	-4.958	0.00	0.00	H
ATOM	1118	3HG	PRO	71	-10.053	-13.211	-5.373	0.00	0.00	H
ATOM	1119	ZHD	PRO	71	-8.167	-11.475	-3.755	0.00	0.00	H
ATOM	1120	3HD	PRO	71	-8.783	-13.119	-3.401	0.00	0.00	H
ATOM	1121	N	LEU	72	-6.005	-12.346	-8.252	0.00	0.00	N
ATOM	1122	CA	LEU	72	-4.884	-11.804	-9.013	0.00	0.00	C
ATOM	1123	C	LEU	72	-5.195	-11.890	-10.513	0.00	0.00	C
ATOM	1124	O	LEU	72	-5.833	-12.841	-10.968	0.00	0.00	O
ATOM	1125	CB	LEU	72	-3.594	-12.593	-8.672	0.00	0.00	C

ATOM	1126	CG	LEU	72	-2.311	-11.761	-8.462	0.00	0.00	C
ATOM	1127	CD1	LEU	72	-1.906	-10.935	-9.689	0.00	0.00	C
ATOM	1128	CD2	LEU	72	-2.404	-10.844	-7.234	0.00	0.00	C
ATOM	1129	H	LEU	72	-6.629	-12.973	-8.738	0.00	0.00	H
ATOM	1130	HA	LEU	72	-4.762	-10.755	-8.742	0.00	0.00	H
ATOM	1131	ZHB	LEU	72	-3.750	-13.166	-7.756	0.00	0.00	H
ATOM	1132	3HB	LEU	72	-3.406	-13.326	-9.459	0.00	0.00	H
ATOM	1133	HG	LEU	72	-1.505	-12.471	-8.275	0.00	0.00	H
ATOM	1134	1HD1	LEU	72	-1.890	-11.567	-10.574	0.00	0.00	H
ATOM	1135	ZHD1	LEU	72	-0.910	-10.528	-9.533	0.00	0.00	H
ATOM	1136	3HD1	LEU	72	-2.597	-10.107	-9.838	0.00	0.00	H
ATOM	1137	1HD2	LEU	72	-3.165	-10.077	-7.376	0.00	0.00	H
ATOM	1138	ZHD2	LEU	72	-2.643	-11.433	-6.348	0.00	0.00	H
ATOM	1139	3HD2	LEU	72	-1.444	-10.354	-7.080	0.00	0.00	H
ATOM	1140	N	GLN	73	-4.692	-10.911	-11.276	0.00	0.00	N
ATOM	1141	CA	GLN	73	-4.730	-10.877	-12.733	0.00	0.00	C
ATOM	1142	C	GLN	73	-3.319	-10.520	-13.230	0.00	0.00	C
ATOM	1143	O	GLN	73	-3.014	-9.336	-13.385	0.00	0.00	O
ATOM	1144	CB	GLN	73	-5.782	-9.862	-13.209	0.00	0.00	C
ATOM	1145	CG	GLN	73	-7.226	-10.276	-12.883	0.00	0.00	C
ATOM	1146	CD	GLN	73	-8.266	-9.238	-13.318	0.00	0.00	C
ATOM	1147	NE2	GLN	73	-9.542	-9.539	-13.067	0.00	0.00	N
ATOM	1148	OE1	GLN	73	-7.940	-8.186	-13.865	0.00	0.00	O
ATOM	1149	H	GLN	73	-4.190	-10.160	-10.823	0.00	0.00	H
ATOM	1150	HA	GLN	73	-5.009	-11.854	-13.126	0.00	0.00	H
ATOM	1151	ZHB	GLN	73	-5.577	-8.898	-12.745	0.00	0.00	H
ATOM	1152	3HB	GLN	73	-5.692	-9.754	-14.291	0.00	0.00	H
ATOM	1153	ZHG	GLN	73	-7.443	-11.224	-13.378	0.00	0.00	H
ATOM	1154	3HG	GLN	73	-7.329	-10.427	-11.808	0.00	0.00	H
ATOM	1155	1HE2	GLN	73	-9.776	-10.410	-12.613	0.00	0.00	H
ATOM	1156	ZHE2	GLN	73	-10.273	-8.891	-13.327	0.00	0.00	H
ATOM	1157	N	PRO	74	-2.442	-11.516	-13.480	0.00	0.00	N
ATOM	1158	CA	PRO	74	-1.069	-11.290	-13.937	0.00	0.00	C
ATOM	1159	C	PRO	74	-0.963	-10.640	-15.327	0.00	0.00	C
ATOM	1160	O	PRO	74	0.095	-10.104	-15.657	0.00	0.00	O
ATOM	1161	CB	PRO	74	-0.408	-12.675	-13.953	0.00	0.00	C
ATOM	1162	CG	PRO	74	-1.229	-13.488	-12.957	0.00	0.00	C
ATOM	1163	CD	PRO	74	-2.632	-12.926	-13.165	0.00	0.00	C
ATOM	1164	HA	PRO	74	-0.562	-10.662	-13.203	0.00	0.00	H
ATOM	1165	ZHB	PRO	74	0.643	-12.624	-13.664	0.00	0.00	H
ATOM	1166	3HB	PRO	74	-0.505	-13.126	-14.943	0.00	0.00	H
ATOM	1167	ZHG	PRO	74	-1.186	-14.556	-13.169	0.00	0.00	H
ATOM	1168	3HG	PRO	74	-0.892	-13.281	-11.941	0.00	0.00	H
ATOM	1169	ZHD	PRO	74	-3.111	-13.422	-14.009	0.00	0.00	H
ATOM	1170	3HD	PRO	74	-3.219	-13.068	-12.259	0.00	0.00	H
ATOM	1171	N	SER	75	-2.040	-10.697	-16.127	0.00	0.00	N
ATOM	1172	CA	SER	75	-2.081	-10.232	-17.510	0.00	0.00	C
ATOM	1173	C	SER	75	-2.706	-8.837	-17.654	0.00	0.00	C
ATOM	1174	O	SER	75	-2.505	-8.205	-18.692	0.00	0.00	O
ATOM	1175	CB	SER	75	-2.848	-11.253	-18.359	0.00	0.00	C
ATOM	1176	OG	SER	75	-2.203	-12.510	-18.345	0.00	0.00	O
ATOM	1177	H	SER	75	-2.875	-11.143	-15.776	0.00	0.00	H
ATOM	1178	HA	SER	75	-1.063	-10.180	-17.897	0.00	0.00	H
ATOM	1179	ZHB	SER	75	-3.862	-11.363	-17.971	0.00	0.00	H
ATOM	1180	3HB	SER	75	-2.901	-10.899	-19.389	0.00	0.00	H
ATOM	1181	HG	SER	75	-2.706	-13.117	-18.893	0.00	0.00	H
ATOM	1182	N	SER	76	-3.436	-8.344	-16.637	0.00	0.00	N
ATOM	1183	CA	SER	76	-4.013	-7.003	-16.642	0.00	0.00	C
ATOM	1184	C	SER	76	-2.939	-5.949	-16.364	0.00	0.00	C
ATOM	1185	O	SER	76	-1.949	-6.228	-15.686	0.00	0.00	O
ATOM	1186	CB	SER	76	-5.177	-6.902	-15.645	0.00	0.00	C
ATOM	1187	OG	SER	76	-4.724	-6.913	-14.308	0.00	0.00	O
ATOM	1188	H	SER	76	-3.565	-8.903	-15.805	0.00	0.00	H
ATOM	1189	HA	SER	76	-4.427	-6.818	-17.635	0.00	0.00	H
ATOM	1190	ZHB	SER	76	-5.712	-5.968	-15.821	0.00	0.00	H
ATOM	1191	3HB	SER	76	-5.865	-7.732	-15.803	0.00	0.00	H
ATOM	1192	HG	SER	76	-5.488	-6.862	-13.728	0.00	0.00	H
ATOM	1193	N	THR	77	-3.161	-4.727	-16.864	0.00	0.00	N
ATOM	1194	CA	THR	77	-2.244	-3.603	-16.684	0.00	0.00	C
ATOM	1195	C	THR	77	-2.201	-3.108	-15.230	0.00	0.00	C
ATOM	1196	O	THR	77	-1.228	-2.461	-14.857	0.00	0.00	O
ATOM	1197	CB	THR	77	-2.612	-2.445	-17.633	0.00	0.00	C
ATOM	1198	CG2	THR	77	-2.481	-2.841	-19.109	0.00	0.00	C
ATOM	1199	OG1	THR	77	-3.924	-1.978	-17.380	0.00	0.00	O
ATOM	1200	H	THR	77	-4.000	-4.558	-17.401	0.00	0.00	H
ATOM	1201	HA	THR	77	-1.241	-3.943	-16.946	0.00	0.00	H
ATOM	1202	HB	THR	77	-1.918	-1.624	-17.448	0.00	0.00	H
ATOM	1203	1HG	THR	77	-4.085	-1.211	-17.934	0.00	0.00	H
ATOM	1204	1HG2	THR	77	-3.199	-3.621	-19.362	0.00	0.00	H
ATOM	1205	2HG2	THR	77	-1.471	-3.205	-19.303	0.00	0.00	H
ATOM	1206	3HG2	THR	77	-2.666	-1.969	-19.737	0.00	0.00	H
ATOM	1207	N	MET	78	-3.221	-3.421	-14.415	0.00	0.00	N
ATOM	1208	CA	MET	78	-3.311	-3.012	-13.016	0.00	0.00	C
ATOM	1209	C	MET	78	-2.659	-4.042	-12.082	0.00	0.00	C
ATOM	1210	O	MET	78	-2.193	-3.666	-11.009	0.00	0.00	O
ATOM	1211	CB	MET	78	-4.786	-2.771	-12.653	0.00	0.00	C
ATOM	1212	CG	MET	78	-5.438	-1.674	-13.505	0.00	0.00	C
ATOM	1213	SD	MET	78	-4.675	-0.034	-13.367	0.00	0.00	S
ATOM	1214	CE	MET	78	-5.518	0.804	-14.735	0.00	0.00	C
ATOM	1215	H	MET	78	-3.988	-3.967	-14.782	0.00	0.00	H
ATOM	1216	HA	MET	78	-2.776	-2.071	-12.891	0.00	0.00	H
ATOM	1217	ZHB	MET	78	-5.345	-3.697	-12.789	0.00	0.00	H
ATOM	1218	3HB	MET	78	-4.852	-2.480	-11.605	0.00	0.00	H
ATOM	1219	ZHG	MET	78	-5.416	-1.979	-14.550	0.00	0.00	H
ATOM	1220	3HG	MET	78	-6.483	-1.588	-13.209	0.00	0.00	H
ATOM	1221	1HE	MET	78	-6.597	0.714	-14.617	0.00	0.00	H
ATOM	1222	ZHE	MET	78	-5.240	1.858	-14.742	0.00	0.00	H
ATOM	1223	3HE	MET	78	-5.222	0.346	-15.678	0.00	0.00	H
ATOM	1224	N	GLY	79	-2.586	-5.318	-12.491	0.00	0.00	N
ATOM	1225	CA	GLY	79	-1.852	-6.349	-11.765	0.00	0.00	C
ATOM	1226	C	GLY	79	-0.350	-6.298	-12.060	0.00	0.00	C
ATOM	1227	O	GLY	79	0.452	-6.717	-11.227	0.00	0.00	O
ATOM	1228	H	GLY	79	-2.988	-5.576	-13.381	0.00	0.00	H
ATOM	1229	ZHA	GLY	79	-2.019	-6.223	-10.697	0.00	0.00	H
ATOM	1230	ZHA	GLY	79	-2.237	-7.322	-12.065	0.00	0.00	H

ATOM	1231	N	GLN	80	0.022	-5.736	-13.219	0.00	0.00	N
ATOM	1232	CA	GLN	80	1.398	-5.489	-13.629	0.00	0.00	C
ATOM	1233	C	GLN	80	1.942	-4.204	-12.991	0.00	0.00	C
ATOM	1234	O	GLN	80	3.148	-4.117	-12.775	0.00	0.00	O
ATOM	1235	CB	GLN	80	1.445	-5.398	-15.162	0.00	0.00	C
ATOM	1236	CG	GLN	80	1.243	-6.773	-15.826	0.00	0.00	C
ATOM	1237	CD	GLN	80	0.975	-6.699	-17.334	0.00	0.00	C
ATOM	1238	NE2	GLN	80	0.762	-7.862	-17.954	0.00	0.00	N
ATOM	1239	OE1	GLN	80	0.952	-5.626	-17.935	0.00	0.00	O
ATOM	1240	H	GLN	80	-0.698	-5.416	-13.850	0.00	0.00	H
ATOM	1241	HA	GLN	80	2.025	-6.323	-13.309	0.00	0.00	H
ATOM	1242	ZHB	GLN	80	0.669	-4.706	-15.495	0.00	0.00	H
ATOM	1243	ZHB	GLN	80	2.413	-5.005	-15.473	0.00	0.00	H
ATOM	1244	ZHG	GLN	80	2.134	-7.380	-15.655	0.00	0.00	H
ATOM	1245	ZHG	GLN	80	0.406	-7.290	-15.360	0.00	0.00	H
ATOM	1246	1HE2	GLN	80	0.574	-7.876	-18.946	0.00	0.00	H
ATOM	1247	2HE2	GLN	80	0.781	-8.725	-17.429	0.00	0.00	H
ATOM	1248	N	VAL	81	1.074	-3.235	-12.659	0.00	0.00	N
ATOM	1249	CA	VAL	81	1.455	-1.998	-11.980	0.00	0.00	C
ATOM	1250	C	VAL	81	1.634	-2.238	-10.478	0.00	0.00	C
ATOM	1251	O	VAL	81	2.521	-1.622	-9.895	0.00	0.00	O
ATOM	1252	CB	VAL	81	0.432	-0.891	-12.309	0.00	0.00	C
ATOM	1253	CG1	VAL	81	0.425	0.285	-11.319	0.00	0.00	C
ATOM	1254	CG2	VAL	81	0.741	-0.315	-13.699	0.00	0.00	C
ATOM	1255	H	VAL	81	0.093	-3.365	-12.861	0.00	0.00	H
ATOM	1256	HA	VAL	81	2.422	-1.678	-12.370	0.00	0.00	H
ATOM	1257	HB	VAL	81	-0.570	-1.325	-12.316	0.00	0.00	H
ATOM	1258	1HG1	VAL	81	1.415	0.734	-11.258	0.00	0.00	H
ATOM	1259	2HG1	VAL	81	-0.282	1.035	-11.664	0.00	0.00	H
ATOM	1260	3HG1	VAL	81	0.115	-0.048	-10.329	0.00	0.00	H
ATOM	1261	1HG2	VAL	81	-0.083	0.324	-14.006	0.00	0.00	H
ATOM	1262	2HG2	VAL	81	1.660	0.271	-13.670	0.00	0.00	H
ATOM	1263	3HG2	VAL	81	0.867	-1.111	-14.432	0.00	0.00	H
ATOM	1264	N	GLY	82	0.866	-3.149	-9.861	0.00	0.00	N
ATOM	1265	CA	GLY	82	1.088	-3.558	-8.477	0.00	0.00	C
ATOM	1266	C	GLY	82	2.374	-4.376	-8.295	0.00	0.00	C
ATOM	1267	O	GLY	82	2.873	-4.464	-7.174	0.00	0.00	O
ATOM	1268	H	GLY	82	0.149	-3.633	-10.384	0.00	0.00	H
ATOM	1269	ZHA	GLY	82	1.142	-2.671	-7.846	0.00	0.00	H
ATOM	1270	ZHA	GLY	82	0.238	-4.154	-8.155	0.00	0.00	H
ATOM	1271	N	ARG	83	2.929	-4.918	-9.392	0.00	0.00	N
ATOM	1272	CA	ARG	83	4.219	-5.601	-9.435	0.00	0.00	C
ATOM	1273	C	ARG	83	5.372	-4.610	-9.670	0.00	0.00	C
ATOM	1274	O	ARG	83	6.483	-4.848	-9.195	0.00	0.00	O
ATOM	1275	CB	ARG	83	4.152	-6.669	-10.537	0.00	0.00	C
ATOM	1276	CG	ARG	83	5.309	-7.672	-10.457	0.00	0.00	C
ATOM	1277	CD	ARG	83	5.074	-8.824	-11.438	0.00	0.00	C
ATOM	1278	NE	ARG	83	6.052	-9.902	-11.237	0.00	0.00	N
ATOM	1279	CZ	ARG	83	5.949	-11.145	-11.741	0.00	0.00	C
ATOM	1280	NH1	ARG	83	6.896	-12.046	-11.454	0.00	0.00	N
ATOM	1281	NH2	ARG	83	4.919	-11.504	-12.523	0.00	0.00	N
ATOM	1282	H	ARG	83	2.457	-4.800	-10.277	0.00	0.00	H
ATOM	1283	HA	ARG	83	4.375	-6.103	-8.479	0.00	0.00	H
ATOM	1284	ZHB	ARG	83	3.213	-7.215	-10.436	0.00	0.00	H
ATOM	1285	ZHB	ARG	83	4.160	-6.192	-11.517	0.00	0.00	H
ATOM	1286	ZHG	ARG	83	6.250	-7.177	-10.698	0.00	0.00	H
ATOM	1287	ZHG	ARG	83	5.369	-8.070	-9.445	0.00	0.00	H
ATOM	1288	ZHD	ARG	83	4.072	-9.224	-11.283	0.00	0.00	H
ATOM	1289	ZHD	ARG	83	5.150	-8.450	-12.460	0.00	0.00	H
ATOM	1290	HE	ARG	83	6.851	-9.686	-10.660	0.00	0.00	H
ATOM	1291	1HH1	ARG	83	7.676	-11.788	-10.868	0.00	0.00	H
ATOM	1292	2HH1	ARG	83	6.831	-12.982	-11.827	0.00	0.00	H
ATOM	1293	1HH2	ARG	83	4.197	-10.834	-12.745	0.00	0.00	H
ATOM	1294	2HH2	ARG	83	4.866	-12.443	-12.890	0.00	0.00	H
ATOM	1295	N	GLN	84	5.102	-3.492	-10.364	0.00	0.00	N
ATOM	1296	CA	GLN	84	6.039	-2.386	-10.558	0.00	0.00	C
ATOM	1297	C	GLN	84	6.077	-1.446	-9.343	0.00	0.00	C
ATOM	1298	O	GLN	84	7.032	-0.681	-9.213	0.00	0.00	O
ATOM	1299	CB	GLN	84	5.660	-1.598	-11.820	0.00	0.00	C
ATOM	1300	CG	GLN	84	5.953	-2.356	-13.121	0.00	0.00	C
ATOM	1301	CD	GLN	84	5.337	-1.636	-14.320	0.00	0.00	C
ATOM	1302	NE2	GLN	84	6.052	-0.652	-14.872	0.00	0.00	N
ATOM	1303	OE1	GLN	84	4.222	-1.949	-14.732	0.00	0.00	O
ATOM	1304	H	GLN	84	4.169	-3.364	-10.730	0.00	0.00	H
ATOM	1305	HA	GLN	84	7.040	-2.794	-10.702	0.00	0.00	H
ATOM	1306	ZHB	GLN	84	4.604	-1.336	-11.775	0.00	0.00	H
ATOM	1307	ZHB	GLN	84	6.240	-0.675	-11.839	0.00	0.00	H
ATOM	1308	ZHG	GLN	84	7.033	-2.433	-13.252	0.00	0.00	H
ATOM	1309	ZHG	GLN	84	5.553	-3.368	-13.068	0.00	0.00	H
ATOM	1310	1HE2	GLN	84	5.683	-0.143	-15.662	0.00	0.00	H
ATOM	1311	2HE2	GLN	84	6.961	-0.419	-14.500	0.00	0.00	H
ATOM	1312	N	LEU	85	5.072	-1.516	-8.454	0.00	0.00	N
ATOM	1313	CA	LEU	85	5.083	-0.865	-7.151	0.00	0.00	C
ATOM	1314	C	LEU	85	5.783	-1.752	-6.115	0.00	0.00	C
ATOM	1315	O	LEU	85	6.299	-1.211	-5.141	0.00	0.00	O
ATOM	1316	CB	LEU	85	3.653	-0.499	-6.700	0.00	0.00	C
ATOM	1317	CG	LEU	85	3.258	0.957	-7.031	0.00	0.00	C
ATOM	1318	CD1	LEU	85	3.107	1.232	-8.532	0.00	0.00	C
ATOM	1319	CD2	LEU	85	1.937	1.308	-6.334	0.00	0.00	C
ATOM	1320	H	LEU	85	4.305	-2.147	-8.638	0.00	0.00	H
ATOM	1321	HA	LEU	85	5.650	0.062	-7.227	0.00	0.00	H
ATOM	1322	ZHB	LEU	85	2.931	-1.195	-7.129	0.00	0.00	H
ATOM	1323	ZHB	LEU	85	3.603	-0.608	-5.615	0.00	0.00	H
ATOM	1324	ZHG	LEU	85	4.029	1.624	-6.639	0.00	0.00	H
ATOM	1325	1HD1	LEU	85	2.914	2.292	-8.688	0.00	0.00	H
ATOM	1326	2HD1	LEU	85	4.016	0.961	-9.067	0.00	0.00	H
ATOM	1327	3HD1	LEU	85	2.261	0.671	-8.926	0.00	0.00	H
ATOM	1328	1HD2	LEU	85	1.621	2.313	-6.616	0.00	0.00	H
ATOM	1329	2HD2	LEU	85	2.077	1.276	-5.255	0.00	0.00	H
ATOM	1330	3HD2	LEU	85	1.161	0.599	-6.622	0.00	0.00	H
ATOM	1331	N	ALA	86	5.827	-3.082	-6.325	0.00	0.00	N
ATOM	1332	CA	ALA	86	6.449	-4.038	-5.412	0.00	0.00	C
ATOM	1333	C	ALA	86	7.979	-4.039	-5.508	0.00	0.00	C
ATOM	1334	O	ALA	86	8.635	-4.321	-4.506	0.00	0.00	O
ATOM	1335	CB	ALA	86	5.891	-5.439	-5.685	0.00	0.00	C

ATOM	1336	H	ALA	86	5.394	-3.458	-7.156	0.00	0.00	H
ATOM	1337	HA	ALA	86	6.178	-3.771	-4.392	0.00	0.00	H
ATOM	1338	1HB	ALA	86	4.814	-5.451	-5.513	0.00	0.00	H
ATOM	1339	2HB	ALA	86	6.100	-5.737	-6.712	0.00	0.00	H
ATOM	1340	3HB	ALA	86	6.361	-6.155	-5.013	0.00	0.00	H
ATOM	1341	N	ILE	87	8.542	-3.710	-6.683	0.00	0.00	N
ATOM	1342	CA	ILE	87	9.985	-3.703	-6.922	0.00	0.00	C
ATOM	1343	C	ILE	87	10.636	-2.390	-6.452	0.00	0.00	C
ATOM	1344	O	ILE	87	11.780	-2.421	-5.996	0.00	0.00	O
ATOM	1345	CB	ILE	87	10.267	-4.051	-8.403	0.00	0.00	C
ATOM	1346	CG1	ILE	87	11.759	-4.398	-8.594	0.00	0.00	C
ATOM	1347	CG2	ILE	87	9.807	-2.939	-9.363	0.00	0.00	C
ATOM	1348	CD1	ILE	87	12.081	-4.997	-9.969	0.00	0.00	C
ATOM	1349	H	ILE	87	7.946	-3.477	-7.463	0.00	0.00	H
ATOM	1350	HA	ILE	87	10.414	-4.506	-6.321	0.00	0.00	H
ATOM	1351	HB	ILE	87	9.691	-4.950	-8.637	0.00	0.00	H
ATOM	1352	2HG1	ILE	87	12.367	-3.502	-8.453	0.00	0.00	H
ATOM	1353	3HG1	ILE	87	12.049	-5.128	-7.837	0.00	0.00	H
ATOM	1354	1HG2	ILE	87	8.776	-2.668	-9.146	0.00	0.00	H
ATOM	1355	2HG2	ILE	87	10.438	-2.057	-9.256	0.00	0.00	H
ATOM	1356	3HG2	ILE	87	9.852	-3.288	-10.394	0.00	0.00	H
ATOM	1357	1HD1	ILE	87	11.451	-5.868	-10.151	0.00	0.00	H
ATOM	1358	2HD1	ILE	87	11.920	-4.257	-10.753	0.00	0.00	H
ATOM	1359	3HD1	ILE	87	13.126	-5.304	-9.990	0.00	0.00	H
ATOM	1360	N	ILE	88	9.897	-1.267	-6.486	0.00	0.00	N
ATOM	1361	CA	ILE	88	10.263	-0.039	-5.774	0.00	0.00	C
ATOM	1362	C	ILE	88	9.828	-0.108	-4.299	0.00	0.00	C
ATOM	1363	O	ILE	88	10.271	0.715	-3.501	0.00	0.00	O
ATOM	1364	CB	ILE	88	9.721	1.223	-6.488	0.00	0.00	C
ATOM	1365	CG1	ILE	88	8.177	1.280	-6.469	0.00	0.00	C
ATOM	1366	CG2	ILE	88	10.297	1.314	-7.914	0.00	0.00	C
ATOM	1367	CD1	ILE	88	7.576	2.534	-7.116	0.00	0.00	C
ATOM	1368	H	ILE	88	8.970	-1.304	-6.885	0.00	0.00	H
ATOM	1369	HA	ILE	88	11.350	0.038	-5.780	0.00	0.00	H
ATOM	1370	HB	ILE	88	10.090	2.090	-5.938	0.00	0.00	H
ATOM	1371	2HG1	ILE	88	7.788	0.404	-6.979	0.00	0.00	H
ATOM	1372	3HG1	ILE	88	7.832	1.252	-5.435	0.00	0.00	H
ATOM	1373	1HG2	ILE	88	11.380	1.181	-7.883	0.00	0.00	H
ATOM	1374	2HG2	ILE	88	10.090	2.293	-8.342	0.00	0.00	H
ATOM	1375	3HG2	ILE	88	9.861	0.546	-8.553	0.00	0.00	H
ATOM	1376	1HD1	ILE	88	8.002	3.429	-6.662	0.00	0.00	H
ATOM	1377	2HD1	ILE	88	7.768	2.538	-8.189	0.00	0.00	H
ATOM	1378	3HD1	ILE	88	6.496	2.537	-6.959	0.00	0.00	H
ATOM	1379	N	GLY	89	8.995	-1.101	-3.940	0.00	0.00	N
ATOM	1380	CA	GLY	89	8.666	-1.474	-2.573	0.00	0.00	C
ATOM	1381	C	GLY	89	9.821	-2.216	-1.894	0.00	0.00	C
ATOM	1382	O	GLY	89	9.918	-2.179	-0.668	0.00	0.00	O
ATOM	1383	H	GLY	89	8.654	-1.720	-4.662	0.00	0.00	H
ATOM	1384	2HA	GLY	89	8.396	-0.585	-2.002	0.00	0.00	H
ATOM	1385	3HA	GLY	89	7.804	-2.139	-2.605	0.00	0.00	H
ATOM	1386	N	ASP	90	10.707	-2.842	-2.687	0.00	0.00	N
ATOM	1387	CA	ASP	90	11.937	-3.470	-2.223	0.00	0.00	C
ATOM	1388	C	ASP	90	13.073	-2.446	-2.095	0.00	0.00	C
ATOM	1389	O	ASP	90	13.943	-2.618	-1.243	0.00	0.00	O
ATOM	1390	CB	ASP	90	12.310	-4.623	-3.165	0.00	0.00	C
ATOM	1391	CG	ASP	90	13.363	-5.532	-2.533	0.00	0.00	C
ATOM	1392	OD1	ASP	90	12.957	-6.390	-1.717	0.00	0.00	O
ATOM	1393	OD2	ASP	90	14.555	-5.349	-2.863	0.00	0.00	O
ATOM	1394	H	ASP	90	10.555	-2.831	-3.685	0.00	0.00	H
ATOM	1395	HA	ASP	90	11.752	-3.897	-1.241	0.00	0.00	H
ATOM	1396	2HB	ASP	90	11.423	-5.217	-3.383	0.00	0.00	H
ATOM	1397	3HB	ASP	90	12.685	-4.219	-4.107	0.00	0.00	H
ATOM	1398	N	ASP	91	13.032	-1.365	-2.891	0.00	0.00	N
ATOM	1399	CA	ASP	91	13.956	-0.235	-2.807	0.00	0.00	C
ATOM	1400	C	ASP	91	13.731	0.604	-1.533	0.00	0.00	C
ATOM	1401	O	ASP	91	14.593	1.409	-1.183	0.00	0.00	O
ATOM	1402	CB	ASP	91	13.800	0.608	-4.085	0.00	0.00	C
ATOM	1403	CG	ASP	91	14.818	1.744	-4.196	0.00	0.00	C
ATOM	1404	OD1	ASP	91	16.030	1.433	-4.179	0.00	0.00	O
ATOM	1405	OD2	ASP	91	14.369	2.905	-4.303	0.00	0.00	O
ATOM	1406	H	ASP	91	12.284	-1.288	-3.565	0.00	0.00	H
ATOM	1407	HA	ASP	91	14.972	-0.633	-2.780	0.00	0.00	H
ATOM	1408	2HB	ASP	91	13.917	-0.041	-4.955	0.00	0.00	H
ATOM	1409	3HB	ASP	91	12.796	1.029	-4.112	0.00	0.00	H
ATOM	1410	N	ILE	92	12.605	0.393	-0.831	0.00	0.00	N
ATOM	1411	CA	ILE	92	12.252	1.052	0.427	0.00	0.00	C
ATOM	1412	C	ILE	92	12.030	0.047	1.568	0.00	0.00	C
ATOM	1413	O	ILE	92	11.643	0.459	2.658	0.00	0.00	O
ATOM	1414	CB	ILE	92	11.057	2.017	0.239	0.00	0.00	C
ATOM	1415	CG1	ILE	92	9.757	1.255	-0.102	0.00	0.00	C
ATOM	1416	CG2	ILE	92	11.427	3.088	-0.802	0.00	0.00	C
ATOM	1417	CD1	ILE	92	8.515	2.134	-0.284	0.00	0.00	C
ATOM	1418	H	ILE	92	11.944	-0.288	-1.180	0.00	0.00	H
ATOM	1419	HA	ILE	92	13.103	1.656	0.735	0.00	0.00	H
ATOM	1420	HB	ILE	92	10.897	2.536	1.184	0.00	0.00	H
ATOM	1421	2HG1	ILE	92	9.911	0.687	-1.015	0.00	0.00	H
ATOM	1422	3HG1	ILE	92	9.540	0.544	0.695	0.00	0.00	H
ATOM	1423	1HG2	ILE	92	12.398	3.517	-0.551	0.00	0.00	H
ATOM	1424	2HG2	ILE	92	11.471	2.659	-1.803	0.00	0.00	H
ATOM	1425	3HG2	ILE	92	10.693	3.887	-0.791	0.00	0.00	H
ATOM	1426	1HD1	ILE	92	8.326	2.700	0.627	0.00	0.00	H
ATOM	1427	2HD1	ILE	92	8.647	2.817	-1.124	0.00	0.00	H
ATOM	1428	3HD1	ILE	92	7.653	1.499	-0.486	0.00	0.00	H
ATOM	1429	N	ASN	93	12.301	-1.252	1.351	0.00	0.00	N
ATOM	1430	CA	ASN	93	12.257	-2.281	2.390	0.00	0.00	C
ATOM	1431	C	ASN	93	13.401	-2.126	3.414	0.00	0.00	C
ATOM	1432	O	ASN	93	13.423	-2.835	4.421	0.00	0.00	O
ATOM	1433	CB	ASN	93	12.296	-3.658	1.711	0.00	0.00	C
ATOM	1434	CG	ASN	93	11.917	-4.831	2.622	0.00	0.00	C
ATOM	1435	ND2	ASN	93	12.403	-6.028	2.285	0.00	0.00	N
ATOM	1436	OD1	ASN	93	11.183	-4.675	3.596	0.00	0.00	O
ATOM	1437	H	ASN	93	12.613	-1.540	0.434	0.00	0.00	H
ATOM	1438	HA	ASN	93	11.305	-2.183	2.910	0.00	0.00	H
ATOM	1439	2HB	ASN	93	11.588	-3.649	0.888	0.00	0.00	H
ATOM	1440	3HB	ASN	93	13.292	-3.823	1.295	0.00	0.00	H

ATOM	1441	1HD2	ASN	93	12.175	-6.839	2.842	0.00	0.00	H
ATOM	1442	2HD2	ASN	93	12.995	-6.123	1.473	0.00	0.00	H
ATOM	1443	N	ARG	94	14.340	-1.202	3.159	0.00	0.00	N
ATOM	1444	CA	ARG	94	15.528	-0.950	3.958	0.00	0.00	C
ATOM	1445	C	ARG	94	15.544	0.527	4.359	0.00	0.00	C
ATOM	1446	O	ARG	94	15.458	1.406	3.500	0.00	0.00	O
ATOM	1447	CB	ARG	94	16.779	-1.321	3.144	0.00	0.00	C
ATOM	1448	CG	ARG	94	16.858	-2.829	2.838	0.00	0.00	C
ATOM	1449	CD	ARG	94	18.040	-3.174	1.920	0.00	0.00	C
ATOM	1450	NE	ARG	94	17.874	-2.622	0.563	0.00	0.00	N
ATOM	1451	CZ	ARG	94	17.139	-3.161	-0.427	0.00	0.00	C
ATOM	1452	NH1	ARG	94	16.463	-4.309	-0.265	0.00	0.00	N
ATOM	1453	NH2	ARG	94	17.079	-2.534	-1.609	0.00	0.00	N
ATOM	1454	H	ARG	94	14.246	-0.649	2.319	0.00	0.00	H
ATOM	1455	HA	ARG	94	15.509	-1.562	4.862	0.00	0.00	H
ATOM	1456	ZHB	ARG	94	16.770	-0.757	2.210	0.00	0.00	H
ATOM	1457	ZHB	ARG	94	17.667	-1.034	3.709	0.00	0.00	H
ATOM	1458	ZHG	ARG	94	16.975	-3.371	3.776	0.00	0.00	H
ATOM	1459	ZHG	ARG	94	15.938	-3.167	2.361	0.00	0.00	H
ATOM	1460	ZHD	ARG	94	18.958	-2.777	2.354	0.00	0.00	H
ATOM	1461	ZHD	ARG	94	18.136	-4.258	1.859	0.00	0.00	H
ATOM	1462	HE	ARG	94	18.357	-1.757	0.372	0.00	0.00	H
ATOM	1463	1HH1	ARG	94	16.497	-4.795	0.620	0.00	0.00	H
ATOM	1464	2HH1	ARG	94	15.916	-4.684	-1.027	0.00	0.00	H
ATOM	1465	1HH2	ARG	94	17.579	-1.668	-1.748	0.00	0.00	H
ATOM	1466	2HH2	ARG	94	16.525	-2.924	-2.358	0.00	0.00	H
ATOM	1467	N	ARG	95	15.694	0.774	5.669	0.00	0.00	N
ATOM	1468	CA	ARG	95	15.819	2.092	6.299	0.00	0.00	C
ATOM	1469	C	ARG	95	14.637	3.054	6.051	0.00	0.00	C
ATOM	1470	O	ARG	95	14.775	4.252	6.300	0.00	0.00	O
ATOM	1471	CB	ARG	95	17.194	2.720	5.989	0.00	0.00	C
ATOM	1472	CG	ARG	95	18.376	1.807	6.367	0.00	0.00	C
ATOM	1473	CD	ARG	95	19.731	2.481	6.128	0.00	0.00	C
ATOM	1474	NE	ARG	95	19.960	3.603	7.052	0.00	0.00	N
ATOM	1475	CZ	ARG	95	21.082	4.341	7.116	0.00	0.00	C
ATOM	1476	NH1	ARG	95	22.125	4.108	6.305	0.00	0.00	N
ATOM	1477	NH2	ARG	95	21.161	5.332	8.013	0.00	0.00	N
ATOM	1478	H	ARG	95	15.756	-0.019	6.292	0.00	0.00	H
ATOM	1479	HA	ARG	95	15.807	1.895	7.372	0.00	0.00	H
ATOM	1480	ZHB	ARG	95	17.252	2.960	4.927	0.00	0.00	H
ATOM	1481	ZHB	ARG	95	17.283	3.649	6.552	0.00	0.00	H
ATOM	1482	ZHG	ARG	95	18.297	1.522	7.417	0.00	0.00	H
ATOM	1483	ZHG	ARG	95	18.343	0.902	5.759	0.00	0.00	H
ATOM	1484	ZHD	ARG	95	20.518	1.741	6.276	0.00	0.00	H
ATOM	1485	ZHD	ARG	95	19.780	2.841	5.099	0.00	0.00	H
ATOM	1486	HE	ARG	95	19.207	3.824	7.687	0.00	0.00	H
ATOM	1487	1HH1	ARG	95	22.078	3.362	5.626	0.00	0.00	H
ATOM	1488	2HH1	ARG	95	22.956	4.676	6.375	0.00	0.00	H
ATOM	1489	1HH2	ARG	95	20.384	5.517	8.631	0.00	0.00	H
ATOM	1490	2HH2	ARG	95	21.999	5.892	8.074	0.00	0.00	H
ATOM	1491	N	TYR	96	13.483	2.545	5.585	0.00	0.00	N
ATOM	1492	CA	TYR	96	12.250	3.311	5.391	0.00	0.00	C
ATOM	1493	C	TYR	96	11.022	2.481	5.785	0.00	0.00	C
ATOM	1494	O	TYR	96	10.076	3.034	6.344	0.00	0.00	O
ATOM	1495	CB	TYR	96	12.122	3.753	3.927	0.00	0.00	C
ATOM	1496	CG	TYR	96	13.220	4.667	3.417	0.00	0.00	C
ATOM	1497	CD1	TYR	96	13.355	5.965	3.944	0.00	0.00	C
ATOM	1498	CD2	TYR	96	14.102	4.224	2.411	0.00	0.00	C
ATOM	1499	CE1	TYR	96	14.369	6.815	3.475	0.00	0.00	C
ATOM	1500	CE2	TYR	96	15.116	5.069	1.933	0.00	0.00	C
ATOM	1501	CZ	TYR	96	15.254	6.374	2.462	0.00	0.00	C
ATOM	1502	OH	TYR	96	16.236	7.200	2.001	0.00	0.00	O
ATOM	1503	H	TYR	96	13.436	1.556	5.390	0.00	0.00	H
ATOM	1504	HA	TYR	96	12.271	4.199	6.024	0.00	0.00	H
ATOM	1505	ZHB	TYR	96	12.081	2.868	3.295	0.00	0.00	H
ATOM	1506	ZHB	TYR	96	11.171	4.271	3.817	0.00	0.00	H
ATOM	1507	HD1	TYR	96	12.681	6.309	4.715	0.00	0.00	H
ATOM	1508	HD2	TYR	96	14.005	3.230	2.004	0.00	0.00	H
ATOM	1509	HE1	TYR	96	14.473	7.803	3.893	0.00	0.00	H
ATOM	1510	HE2	TYR	96	15.790	4.719	1.166	0.00	0.00	H
ATOM	1511	HH	TYR	96	16.776	6.794	1.318	0.00	0.00	H
ATOM	1512	N	ASP	97	11.061	1.162	5.539	0.00	0.00	N
ATOM	1513	CA	ASP	97	10.089	0.208	6.060	0.00	0.00	C
ATOM	1514	C	ASP	97	10.419	-0.173	7.511	0.00	0.00	C
ATOM	1515	O	ASP	97	9.579	-0.766	8.181	0.00	0.00	O
ATOM	1516	CB	ASP	97	10.034	-1.020	5.141	0.00	0.00	C
ATOM	1517	CG	ASP	97	8.889	-1.965	5.504	0.00	0.00	C
ATOM	1518	OD1	ASP	97	9.176	-2.995	6.151	0.00	0.00	O
ATOM	1519	OD2	ASP	97	7.745	-1.636	5.125	0.00	0.00	O
ATOM	1520	H	ASP	97	11.861	0.780	5.055	0.00	0.00	H
ATOM	1521	HA	ASP	97	9.108	0.683	6.044	0.00	0.00	H
ATOM	1522	ZHB	ASP	97	9.875	-0.688	4.115	0.00	0.00	H
ATOM	1523	ZHB	ASP	97	10.983	-1.553	5.193	0.00	0.00	H
ATOM	1524	N	SER	98	11.605	0.203	8.018	0.00	0.00	N
ATOM	1525	CA	SER	98	11.963	0.088	9.427	0.00	0.00	C
ATOM	1526	C	SER	98	11.062	0.971	10.307	0.00	0.00	C
ATOM	1527	O	SER	98	10.843	0.637	11.470	0.00	0.00	O
ATOM	1528	CB	SER	98	13.431	0.493	9.607	0.00	0.00	C
ATOM	1529	OG	SER	98	14.288	-0.342	8.855	0.00	0.00	O
ATOM	1530	H	SER	98	12.261	0.682	7.418	0.00	0.00	H
ATOM	1531	HA	SER	98	11.845	-0.951	9.738	0.00	0.00	H
ATOM	1532	ZHB	SER	98	13.567	1.527	9.283	0.00	0.00	H
ATOM	1533	ZHB	SER	98	13.699	0.415	10.661	0.00	0.00	H
ATOM	1534	HG	SER	98	15.196	-0.081	9.029	0.00	0.00	H
ATOM	1535	N	GLU	99	10.515	2.062	9.742	0.00	0.00	N
ATOM	1536	CA	GLU	99	9.552	2.941	10.392	0.00	0.00	C
ATOM	1537	C	GLU	99	8.122	2.392	10.270	0.00	0.00	C
ATOM	1538	O	GLU	99	7.319	2.611	11.174	0.00	0.00	O
ATOM	1539	CB	GLU	99	9.682	4.345	9.774	0.00	0.00	C
ATOM	1540	CG	GLU	99	8.852	5.423	10.487	0.00	0.00	C
ATOM	1541	CD	GLU	99	9.292	5.643	11.936	0.00	0.00	C
ATOM	1542	OE1	GLU	99	8.720	4.969	12.820	0.00	0.00	O
ATOM	1543	OE2	GLU	99	10.191	6.488	12.136	0.00	0.00	O
ATOM	1544	H	GLU	99	10.740	2.271	8.780	0.00	0.00	H
ATOM	1545	HA	GLU	99	9.812	3.002	11.449	0.00	0.00	H

ATOM	1546	ZHB	GLU	99	10.730	4.649	9.799	0.00	0.00	H
ATOM	1547	3HB	GLU	99	9.369	4.302	8.731	0.00	0.00	H
ATOM	1548	ZHG	GLU	99	8.963	6.361	9.940	0.00	0.00	H
ATOM	1549	3HG	GLU	99	7.796	5.154	10.462	0.00	0.00	H
ATOM	1550	N	PHE	100	7.810	1.652	9.192	0.00	0.00	N
ATOM	1551	CA	PHE	100	6.520	0.984	9.009	0.00	0.00	C
ATOM	1552	C	PHE	100	6.401	-0.288	9.860	0.00	0.00	C
ATOM	1553	O	PHE	100	5.282	-0.739	10.093	0.00	0.00	O
ATOM	1554	CB	PHE	100	6.310	0.654	7.522	0.00	0.00	C
ATOM	1555	CG	PHE	100	6.015	1.802	6.564	0.00	0.00	C
ATOM	1556	CD1	PHE	100	5.815	1.496	5.203	0.00	0.00	C
ATOM	1557	CD2	PHE	100	5.902	3.144	6.990	0.00	0.00	C
ATOM	1558	CE1	PHE	100	5.501	2.510	4.282	0.00	0.00	C
ATOM	1559	CE2	PHE	100	5.581	4.156	6.068	0.00	0.00	C
ATOM	1560	CZ	PHE	100	5.373	3.837	4.717	0.00	0.00	C
ATOM	1561	H	PHE	100	8.511	1.501	8.481	0.00	0.00	H
ATOM	1562	HA	PHE	100	5.724	1.658	9.326	0.00	0.00	H
ATOM	1563	ZHB	PHE	100	7.186	0.118	7.162	0.00	0.00	H
ATOM	1564	3HB	PHE	100	5.472	-0.037	7.448	0.00	0.00	H
ATOM	1565	HD1	PHE	100	5.894	0.474	4.861	0.00	0.00	H
ATOM	1566	HD2	PHE	100	6.050	3.417	8.023	0.00	0.00	H
ATOM	1567	HE1	PHE	100	5.355	2.267	3.241	0.00	0.00	H
ATOM	1568	HE2	PHE	100	5.492	5.180	6.403	0.00	0.00	H
ATOM	1569	HZ	PHE	100	5.116	4.612	4.010	0.00	0.00	H
ATOM	1570	N	GLN	101	7.522	-0.842	10.346	0.00	0.00	N
ATOM	1571	CA	GLN	101	7.554	-1.942	11.307	0.00	0.00	C
ATOM	1572	C	GLN	101	7.431	-1.416	12.743	0.00	0.00	C
ATOM	1573	O	GLN	101	6.964	-2.154	13.609	0.00	0.00	O
ATOM	1574	CB	GLN	101	8.852	-2.747	11.119	0.00	0.00	C
ATOM	1575	CG	GLN	101	8.846	-3.597	9.834	0.00	0.00	C
ATOM	1576	CD	GLN	101	7.847	-4.757	9.856	0.00	0.00	C
ATOM	1577	NE2	GLN	101	7.343	-5.135	8.677	0.00	0.00	N
ATOM	1578	OE1	GLN	101	7.541	-5.318	10.906	0.00	0.00	O
ATOM	1579	H	GLN	101	8.411	-0.428	10.103	0.00	0.00	H
ATOM	1580	HA	GLN	101	6.708	-2.603	11.121	0.00	0.00	H
ATOM	1581	ZHB	GLN	101	9.698	-2.058	11.086	0.00	0.00	H
ATOM	1582	3HB	GLN	101	8.997	-3.406	11.976	0.00	0.00	H
ATOM	1583	ZHG	GLN	101	8.623	-2.959	8.981	0.00	0.00	H
ATOM	1584	3HG	GLN	101	9.844	-4.009	9.682	0.00	0.00	H
ATOM	1585	1HE2	GLN	101	6.684	-5.897	8.632	0.00	0.00	H
ATOM	1586	2HE2	GLN	101	7.622	-4.654	7.834	0.00	0.00	H
ATOM	1587	N	THR	102	7.792	-0.145	12.986	0.00	0.00	N
ATOM	1588	CA	THR	102	7.536	0.557	14.242	0.00	0.00	C
ATOM	1589	C	THR	102	6.058	0.973	14.333	0.00	0.00	C
ATOM	1590	O	THR	102	5.530	1.065	15.439	0.00	0.00	O
ATOM	1591	CB	THR	102	8.492	1.761	14.353	0.00	0.00	C
ATOM	1592	CG2	THR	102	8.275	2.594	15.624	0.00	0.00	C
ATOM	1593	OG1	THR	102	9.832	1.310	14.352	0.00	0.00	O
ATOM	1594	H	THR	102	8.179	0.403	12.231	0.00	0.00	H
ATOM	1595	HA	THR	102	7.748	-0.122	15.069	0.00	0.00	H
ATOM	1596	HB	THR	102	8.349	2.411	13.493	0.00	0.00	H
ATOM	1597	1HG	THR	102	10.410	2.077	14.340	0.00	0.00	H
ATOM	1598	1HG2	THR	102	8.291	1.949	16.504	0.00	0.00	H
ATOM	1599	2HG2	THR	102	9.060	3.345	15.712	0.00	0.00	H
ATOM	1600	3HG2	THR	102	7.317	3.110	15.571	0.00	0.00	H
ATOM	1601	N	MET	103	5.372	1.164	13.193	0.00	0.00	N
ATOM	1602	CA	MET	103	3.932	1.400	13.162	0.00	0.00	C
ATOM	1603	C	MET	103	3.139	0.130	13.503	0.00	0.00	C
ATOM	1604	O	MET	103	2.003	0.265	13.952	0.00	0.00	O
ATOM	1605	CB	MET	103	3.506	1.937	11.788	0.00	0.00	C
ATOM	1606	CG	MET	103	3.962	3.369	11.512	0.00	0.00	C
ATOM	1607	SD	MET	103	3.518	3.932	9.847	0.00	0.00	S
ATOM	1608	CE	MET	103	4.459	5.474	9.797	0.00	0.00	C
ATOM	1609	H	MET	103	5.849	1.077	12.307	0.00	0.00	H
ATOM	1610	HA	MET	103	3.693	2.157	13.910	0.00	0.00	H
ATOM	1611	ZHB	MET	103	3.902	1.285	11.012	0.00	0.00	H
ATOM	1612	3HB	MET	103	2.418	1.922	11.730	0.00	0.00	H
ATOM	1613	ZHG	MET	103	3.507	4.037	12.243	0.00	0.00	H
ATOM	1614	3HG	MET	103	5.042	3.429	11.623	0.00	0.00	H
ATOM	1615	1HE	MET	103	5.517	5.258	9.939	0.00	0.00	H
ATOM	1616	2HE	MET	103	4.317	5.955	8.831	0.00	0.00	H
ATOM	1617	3HE	MET	103	4.112	6.134	10.591	0.00	0.00	H
ATOM	1618	N	LEU	104	3.718	-1.076	13.341	0.00	0.00	N
ATOM	1619	CA	LEU	104	3.101	-2.334	13.770	0.00	0.00	C
ATOM	1620	C	LEU	104	3.287	-2.591	15.272	0.00	0.00	C
ATOM	1621	O	LEU	104	2.485	-3.319	15.857	0.00	0.00	O
ATOM	1622	CB	LEU	104	3.641	-3.531	12.964	0.00	0.00	C
ATOM	1623	CG	LEU	104	3.422	-3.470	11.440	0.00	0.00	C
ATOM	1624	CD1	LEU	104	3.901	-4.784	10.807	0.00	0.00	C
ATOM	1625	CD2	LEU	104	1.959	-3.227	11.049	0.00	0.00	C
ATOM	1626	H	LEU	104	4.655	-1.125	12.966	0.00	0.00	H
ATOM	1627	HA	LEU	104	2.032	-2.266	13.590	0.00	0.00	H
ATOM	1628	ZHB	LEU	104	4.709	-3.630	13.160	0.00	0.00	H
ATOM	1629	3HB	LEU	104	3.153	-4.431	13.341	0.00	0.00	H
ATOM	1630	HG	LEU	104	4.022	-2.660	11.036	0.00	0.00	H
ATOM	1631	1HD1	LEU	104	3.295	-5.618	11.164	0.00	0.00	H
ATOM	1632	2HD1	LEU	104	4.941	-4.961	11.073	0.00	0.00	H
ATOM	1633	3HD1	LEU	104	3.825	-4.729	9.721	0.00	0.00	H
ATOM	1634	1HD2	LEU	104	1.339	-4.033	11.434	0.00	0.00	H
ATOM	1635	2HD2	LEU	104	1.607	-2.278	11.451	0.00	0.00	H
ATOM	1636	3HD2	LEU	104	1.869	-3.183	9.966	0.00	0.00	H
ATOM	1637	N	GLN	105	4.302	-1.972	15.897	0.00	0.00	N
ATOM	1638	CA	GLN	105	4.501	-1.973	17.347	0.00	0.00	C
ATOM	1639	C	GLN	105	3.497	-1.043	18.057	0.00	0.00	C
ATOM	1640	O	GLN	105	3.426	-1.061	19.286	0.00	0.00	O
ATOM	1641	CB	GLN	105	5.947	-1.560	17.674	0.00	0.00	C
ATOM	1642	CG	GLN	105	6.992	-2.564	17.154	0.00	0.00	C
ATOM	1643	CD	GLN	105	8.435	-2.056	17.254	0.00	0.00	C
ATOM	1644	NE2	GLN	105	9.380	-2.858	16.757	0.00	0.00	N
ATOM	1645	OE1	GLN	105	8.704	-0.965	17.756	0.00	0.00	O
ATOM	1646	H	GLN	105	4.928	-1.396	15.353	0.00	0.00	H
ATOM	1647	HA	GLN	105	4.343	-2.986	17.718	0.00	0.00	H
ATOM	1648	ZHB	GLN	105	6.141	-0.579	17.245	0.00	0.00	H
ATOM	1649	3HB	GLN	105	6.061	-1.482	18.755	0.00	0.00	H
ATOM	1650	ZHG	GLN	105	6.903	-3.491	17.721	0.00	0.00	H

ATOM	1651	3HG	GLN	105	6.791	-2.798	16.110	0.00	0.00	H
ATOM	1652	1HE2	GLN	105	10.349	-2.576	16.791	0.00	0.00	H
ATOM	1653	2HE2	GLN	105	9.124	-3.746	16.348	0.00	0.00	H
ATOM	1654	N	HIP	106	2.724	-0.255	17.290	0.00	0.00	N
ATOM	1655	CA	HIP	106	1.685	0.654	17.766	0.00	0.00	C
ATOM	1656	C	HIP	106	0.304	0.292	17.183	0.00	0.00	C
ATOM	1657	O	HIP	106	-0.698	0.866	17.611	0.00	0.00	O
ATOM	1658	CB	HIP	106	2.089	2.096	17.423	0.00	0.00	C
ATOM	1659	CG	HIP	106	3.464	2.497	17.910	0.00	0.00	C
ATOM	1660	CD2	HIP	106	4.382	3.230	17.211	0.00	0.00	C
ATOM	1661	ND1	HIP	106	4.042	2.156	19.121	0.00	0.00	N
ATOM	1662	CE1	HIP	106	5.286	2.668	19.148	0.00	0.00	C
ATOM	1663	NE2	HIP	106	5.512	3.326	17.996	0.00	0.00	N
ATOM	1664	H	HIP	106	2.849	-0.297	16.289	0.00	0.00	H
ATOM	1665	HA	HIP	106	1.610	0.575	18.851	0.00	0.00	H
ATOM	1666	2HB	HIP	106	2.064	2.212	16.341	0.00	0.00	H
ATOM	1667	3HB	HIP	106	1.360	2.782	17.854	0.00	0.00	H
ATOM	1668	HD1	HIP	106	3.612	1.602	19.848	0.00	0.00	H
ATOM	1669	HD2	HIP	106	4.262	3.626	16.214	0.00	0.00	H
ATOM	1670	HE1	HIP	106	5.990	2.562	19.959	0.00	0.00	H
ATOM	1671	HE2	HIP	106	6.367	3.803	17.745	0.00	0.00	H
ATOM	1672	N	LEU	107	0.245	-0.663	16.238	0.00	0.00	N
ATOM	1673	CA	LEU	107	-0.981	-1.199	15.657	0.00	0.00	C
ATOM	1674	C	LEU	107	-1.587	-2.238	16.604	0.00	0.00	C
ATOM	1675	O	LEU	107	-0.858	-3.025	17.213	0.00	0.00	O
ATOM	1676	CB	LEU	107	-0.660	-1.817	14.283	0.00	0.00	C
ATOM	1677	CG	LEU	107	-1.876	-2.292	13.466	0.00	0.00	C
ATOM	1678	CD1	LEU	107	-2.790	-1.123	13.088	0.00	0.00	C
ATOM	1679	CD2	LEU	107	-1.400	-2.974	12.179	0.00	0.00	C
ATOM	1680	H	LEU	107	1.108	-1.087	15.931	0.00	0.00	H
ATOM	1681	HA	LEU	107	-1.682	-0.375	15.522	0.00	0.00	H
ATOM	1682	2HB	LEU	107	-0.125	-1.082	13.684	0.00	0.00	H
ATOM	1683	3HB	LEU	107	0.000	-2.670	14.445	0.00	0.00	H
ATOM	1684	HG	LEU	107	-2.445	-3.020	14.044	0.00	0.00	H
ATOM	1685	1HD1	LEU	107	-3.248	-0.700	13.981	0.00	0.00	H
ATOM	1686	2HD1	LEU	107	-2.211	-0.361	12.569	0.00	0.00	H
ATOM	1687	3HD1	LEU	107	-3.575	-1.467	12.421	0.00	0.00	H
ATOM	1688	1HD2	LEU	107	-2.247	-3.429	11.668	0.00	0.00	H
ATOM	1689	2HD2	LEU	107	-0.924	-2.250	11.518	0.00	0.00	H
ATOM	1690	3HD2	LEU	107	-0.686	-3.754	12.428	0.00	0.00	H
ATOM	1691	N	GLN	108	-2.924	-2.256	16.700	0.00	0.00	N
ATOM	1692	CA	GLN	108	-3.650	-3.168	17.573	0.00	0.00	C
ATOM	1693	C	GLN	108	-3.691	-4.582	16.971	0.00	0.00	C
ATOM	1694	O	GLN	108	-3.875	-4.713	15.759	0.00	0.00	O
ATOM	1695	CB	GLN	108	-5.075	-2.650	17.835	0.00	0.00	C
ATOM	1696	CG	GLN	108	-5.108	-1.294	18.561	0.00	0.00	C
ATOM	1697	CD	GLN	108	-4.444	-1.302	19.943	0.00	0.00	C
ATOM	1698	NE2	GLN	108	-3.957	-0.136	20.377	0.00	0.00	N
ATOM	1699	OE1	GLN	108	-4.380	-2.327	20.619	0.00	0.00	O
ATOM	1700	H	GLN	108	-3.467	-1.594	16.163	0.00	0.00	H
ATOM	1701	HA	GLN	108	-3.117	-3.196	18.521	0.00	0.00	H
ATOM	1702	2HB	GLN	108	-5.600	-2.552	16.883	0.00	0.00	H
ATOM	1703	3HB	GLN	108	-5.612	-3.383	18.438	0.00	0.00	H
ATOM	1704	2HG	GLN	108	-4.635	-0.539	17.932	0.00	0.00	H
ATOM	1705	3HG	GLN	108	-6.148	-1.003	18.693	0.00	0.00	H
ATOM	1706	1HE2	GLN	108	-3.516	-0.082	21.283	0.00	0.00	H
ATOM	1707	2HE2	GLN	108	-4.032	0.689	19.801	0.00	0.00	H
ATOM	1708	N	PRO	109	-3.569	-5.645	17.795	0.00	0.00	N
ATOM	1709	CA	PRO	109	-3.664	-7.029	17.341	0.00	0.00	C
ATOM	1710	C	PRO	109	-5.103	-7.427	16.975	0.00	0.00	C
ATOM	1711	O	PRO	109	-5.287	-8.384	16.224	0.00	0.00	O
ATOM	1712	CB	PRO	109	-3.122	-7.868	18.501	0.00	0.00	C
ATOM	1713	CG	PRO	109	-3.501	-7.043	19.729	0.00	0.00	C
ATOM	1714	CD	PRO	109	-3.341	-5.606	19.234	0.00	0.00	C
ATOM	1715	HA	PRO	109	-3.026	-7.172	16.470	0.00	0.00	H
ATOM	1716	2HB	PRO	109	-2.035	-7.932	18.426	0.00	0.00	H
ATOM	1717	3HB	PRO	109	-3.558	-8.867	18.532	0.00	0.00	H
ATOM	1718	2HG	PRO	109	-4.544	-7.228	19.990	0.00	0.00	H
ATOM	1719	3HG	PRO	109	-2.849	-7.253	20.577	0.00	0.00	H
ATOM	1720	2HD	PRO	109	-4.062	-4.958	19.731	0.00	0.00	H
ATOM	1721	3HD	PRO	109	-2.325	-5.260	19.428	0.00	0.00	H
ATOM	1722	N	THR	110	-6.107	-6.676	17.461	0.00	0.00	N
ATOM	1723	CA	THR	110	-7.489	-6.771	17.008	0.00	0.00	C
ATOM	1724	C	THR	110	-7.584	-6.122	15.625	0.00	0.00	C
ATOM	1725	O	THR	110	-7.152	-4.985	15.439	0.00	0.00	O
ATOM	1726	CB	THR	110	-8.459	-6.127	18.017	0.00	0.00	C
ATOM	1727	CG2	THR	110	-8.492	-6.900	19.342	0.00	0.00	C
ATOM	1728	OG1	THR	110	-8.123	-4.778	18.278	0.00	0.00	O
ATOM	1729	H	THR	110	-5.886	-5.913	18.085	0.00	0.00	H
ATOM	1730	HA	THR	110	-7.752	-7.827	16.917	0.00	0.00	H
ATOM	1731	HB	THR	110	-9.461	-6.152	17.587	0.00	0.00	H
ATOM	1732	1HG	THR	110	-8.789	-4.405	18.859	0.00	0.00	H
ATOM	1733	1HG2	THR	110	-7.516	-6.866	19.827	0.00	0.00	H
ATOM	1734	2HG2	THR	110	-9.235	-6.456	20.004	0.00	0.00	H
ATOM	1735	3HG2	THR	110	-8.764	-7.939	19.155	0.00	0.00	H
ATOM	1736	N	ALA	111	-8.143	-6.866	14.662	0.00	0.00	N
ATOM	1737	CA	ALA	111	-8.165	-6.489	13.252	0.00	0.00	C
ATOM	1738	C	ALA	111	-9.245	-5.445	12.916	0.00	0.00	C
ATOM	1739	O	ALA	111	-9.217	-4.882	11.821	0.00	0.00	O
ATOM	1740	CB	ALA	111	-8.334	-7.763	12.421	0.00	0.00	C
ATOM	1741	H	ALA	111	-8.493	-7.784	14.895	0.00	0.00	H
ATOM	1742	HA	ALA	111	-7.194	-6.061	13.004	0.00	0.00	H
ATOM	1743	1HB	ALA	111	-8.213	-7.525	11.367	0.00	0.00	H
ATOM	1744	2HB	ALA	111	-7.571	-8.489	12.701	0.00	0.00	H
ATOM	1745	3HB	ALA	111	-9.323	-8.193	12.587	0.00	0.00	H
ATOM	1746	N	GLU	112	-10.170	-5.173	13.851	0.00	0.00	N
ATOM	1747	CA	GLU	112	-11.221	-4.173	13.715	0.00	0.00	C
ATOM	1748	C	GLU	112	-10.715	-2.786	14.136	0.00	0.00	C
ATOM	1749	O	GLU	112	-11.020	-1.805	13.459	0.00	0.00	O
ATOM	1750	CB	GLU	112	-12.431	-4.622	14.551	0.00	0.00	C
ATOM	1751	CG	GLU	112	-13.646	-3.701	14.376	0.00	0.00	C
ATOM	1752	CD	GLU	112	-14.845	-4.220	15.168	0.00	0.00	C
ATOM	1753	OE1	GLU	112	-14.940	-3.859	16.362	0.00	0.00	O
ATOM	1754	OE2	GLU	112	-15.645	-4.972	14.569	0.00	0.00	O
ATOM	1755	H	GLU	112	-10.132	-5.673	14.728	0.00	0.00	H

ATOM	1756	HA	GLU	112	-11.531	-4.128	12.669	0.00	0.00	H
ATOM	1757	ZHB	GLU	112	-12.714	-5.630	14.242	0.00	0.00	H
ATOM	1758	3HB	GLU	112	-12.151	-4.652	15.605	0.00	0.00	H
ATOM	1759	ZHG	GLU	112	-13.400	-2.696	14.724	0.00	0.00	H
ATOM	1760	3HG	GLU	112	-13.907	-3.645	13.319	0.00	0.00	H
ATOM	1761	N	ASN	113	-9.921	-2.712	15.218	0.00	0.00	N
ATOM	1762	CA	ASN	113	-9.294	-1.474	15.686	0.00	0.00	C
ATOM	1763	C	ASN	113	-7.947	-1.210	14.990	0.00	0.00	C
ATOM	1764	O	ASN	113	-7.351	-0.150	15.190	0.00	0.00	O
ATOM	1765	CB	ASN	113	-9.170	-1.503	17.217	0.00	0.00	C
ATOM	1766	CG	ASN	113	-9.189	-0.090	17.807	0.00	0.00	C
ATOM	1767	ND2	ASN	113	-10.389	0.448	18.036	0.00	0.00	N
ATOM	1768	OD1	ASN	113	-8.145	0.514	18.037	0.00	0.00	O
ATOM	1769	H	ASN	113	-9.704	-3.557	15.726	0.00	0.00	H
ATOM	1770	HA	ASN	113	-9.964	-0.653	15.427	0.00	0.00	H
ATOM	1771	ZHB	ASN	113	-10.008	-2.059	17.639	0.00	0.00	H
ATOM	1772	3HB	ASN	113	-8.250	-2.014	17.503	0.00	0.00	H
ATOM	1773	1HD2	ASN	113	-10.457	1.385	18.409	0.00	0.00	H
ATOM	1774	ZHD2	ASN	113	-11.227	-0.075	17.827	0.00	0.00	H
ATOM	1775	N	ALA	114	-7.485	-2.147	14.146	0.00	0.00	N
ATOM	1776	CA	ALA	114	-6.357	-1.950	13.246	0.00	0.00	C
ATOM	1777	C	ALA	114	-6.733	-1.028	12.072	0.00	0.00	C
ATOM	1778	O	ALA	114	-5.845	-0.409	11.484	0.00	0.00	O
ATOM	1779	CB	ALA	114	-5.882	-3.321	12.754	0.00	0.00	C
ATOM	1780	H	ALA	114	-8.008	-3.004	14.038	0.00	0.00	H
ATOM	1781	HA	ALA	114	-5.547	-1.489	13.809	0.00	0.00	H
ATOM	1782	1HB	ALA	114	-6.669	-3.806	12.176	0.00	0.00	H
ATOM	1783	ZHB	ALA	114	-5.001	-3.208	12.128	0.00	0.00	H
ATOM	1784	3HB	ALA	114	-5.613	-3.948	13.603	0.00	0.00	H
ATOM	1785	N	TYR	115	-8.036	-0.897	11.766	0.00	0.00	N
ATOM	1786	CA	TYR	115	-8.566	0.071	10.812	0.00	0.00	C
ATOM	1787	C	TYR	115	-8.722	1.465	11.431	0.00	0.00	C
ATOM	1788	O	TYR	115	-8.624	2.449	10.700	0.00	0.00	O
ATOM	1789	CB	TYR	115	-9.930	-0.405	10.297	0.00	0.00	C
ATOM	1790	CG	TYR	115	-9.934	-1.659	9.442	0.00	0.00	C
ATOM	1791	CD1	TYR	115	-9.000	-1.818	8.399	0.00	0.00	C
ATOM	1792	CD2	TYR	115	-10.934	-2.632	9.637	0.00	0.00	C
ATOM	1793	CE1	TYR	115	-9.058	-2.940	7.558	0.00	0.00	C
ATOM	1794	CE2	TYR	115	-11.007	-3.752	8.792	0.00	0.00	C
ATOM	1795	CZ	TYR	115	-10.067	-3.911	7.747	0.00	0.00	C
ATOM	1796	OH	TYR	115	-10.143	-4.992	6.921	0.00	0.00	O
ATOM	1797	H	TYR	115	-8.712	-1.441	12.283	0.00	0.00	H
ATOM	1798	HA	TYR	115	-7.878	0.155	9.972	0.00	0.00	H
ATOM	1799	ZHB	TYR	115	-10.591	-0.550	11.152	0.00	0.00	H
ATOM	1800	3HB	TYR	115	-10.365	0.393	9.700	0.00	0.00	H
ATOM	1801	HD1	TYR	115	-8.247	-1.067	8.220	0.00	0.00	H
ATOM	1802	HD2	TYR	115	-11.666	-2.511	10.423	0.00	0.00	H
ATOM	1803	HE1	TYR	115	-8.345	-3.043	6.754	0.00	0.00	H
ATOM	1804	HE2	TYR	115	-11.790	-4.481	8.935	0.00	0.00	H
ATOM	1805	HH	TYR	115	-10.869	-5.581	7.142	0.00	0.00	H
ATOM	1806	N	GLU	116	-8.949	1.556	12.753	0.00	0.00	N
ATOM	1807	CA	GLU	116	-9.064	2.829	13.458	0.00	0.00	C
ATOM	1808	C	GLU	116	-7.704	3.536	13.505	0.00	0.00	C
ATOM	1809	O	GLU	116	-7.645	4.750	13.315	0.00	0.00	O
ATOM	1810	CB	GLU	116	-9.625	2.580	14.870	0.00	0.00	C
ATOM	1811	CG	GLU	116	-9.899	3.894	15.616	0.00	0.00	C
ATOM	1812	CD	GLU	116	-10.471	3.640	17.009	0.00	0.00	C
ATOM	1813	OE1	GLU	116	-9.667	3.651	17.967	0.00	0.00	O
ATOM	1814	OE2	GLU	116	-11.702	3.439	17.094	0.00	0.00	O
ATOM	1815	H	GLU	116	-9.020	0.711	13.302	0.00	0.00	H
ATOM	1816	HA	GLU	116	-9.770	3.460	12.915	0.00	0.00	H
ATOM	1817	ZHB	GLU	116	-10.558	2.022	14.788	0.00	0.00	H
ATOM	1818	3HB	GLU	116	-8.915	1.988	15.446	0.00	0.00	H
ATOM	1819	ZHG	GLU	116	-8.971	4.457	15.717	0.00	0.00	H
ATOM	1820	3HG	GLU	116	-10.604	4.496	15.042	0.00	0.00	H
ATOM	1821	N	TYR	117	-6.621	2.770	13.699	0.00	0.00	N
ATOM	1822	CA	TYR	117	-5.250	3.263	13.667	0.00	0.00	C
ATOM	1823	C	TYR	117	-4.857	3.726	12.259	0.00	0.00	C
ATOM	1824	O	TYR	117	-4.143	4.720	12.135	0.00	0.00	O
ATOM	1825	CB	TYR	117	-4.328	2.139	14.157	0.00	0.00	C
ATOM	1826	CG	TYR	117	-2.847	2.475	14.141	0.00	0.00	C
ATOM	1827	CD1	TYR	117	-2.216	2.962	15.303	0.00	0.00	C
ATOM	1828	CD2	TYR	117	-2.097	2.296	12.961	0.00	0.00	C
ATOM	1829	CE1	TYR	117	-0.844	3.269	15.287	0.00	0.00	C
ATOM	1830	CE2	TYR	117	-0.723	2.588	12.941	0.00	0.00	C
ATOM	1831	CZ	TYR	117	-0.093	3.077	14.104	0.00	0.00	C
ATOM	1832	OH	TYR	117	1.237	3.366	14.077	0.00	0.00	O
ATOM	1833	H	TYR	117	-6.745	1.778	13.842	0.00	0.00	H
ATOM	1834	HA	TYR	117	-5.166	4.109	14.348	0.00	0.00	H
ATOM	1835	ZHB	TYR	117	-4.616	1.867	15.173	0.00	0.00	H
ATOM	1836	3HB	TYR	117	-4.490	1.262	13.529	0.00	0.00	H
ATOM	1837	HD1	TYR	117	-2.784	3.100	16.211	0.00	0.00	H
ATOM	1838	HD2	TYR	117	-2.575	1.932	12.063	0.00	0.00	H
ATOM	1839	HE1	TYR	117	-0.367	3.648	16.180	0.00	0.00	H
ATOM	1840	HE2	TYR	117	-0.154	2.443	12.036	0.00	0.00	H
ATOM	1841	HH	TYR	117	1.565	3.701	14.915	0.00	0.00	H
ATOM	1842	N	PHE	118	-5.331	3.026	11.214	0.00	0.00	N
ATOM	1843	CA	PHE	118	-4.992	3.313	9.825	0.00	0.00	C
ATOM	1844	C	PHE	118	-5.690	4.576	9.306	0.00	0.00	C
ATOM	1845	O	PHE	118	-5.149	5.231	8.418	0.00	0.00	O
ATOM	1846	CB	PHE	118	-5.341	2.096	8.960	0.00	0.00	C
ATOM	1847	CG	PHE	118	-4.833	2.183	7.530	0.00	0.00	C
ATOM	1848	CD1	PHE	118	-3.511	1.802	7.229	0.00	0.00	C
ATOM	1849	CD2	PHE	118	-5.676	2.635	6.497	0.00	0.00	C
ATOM	1850	CE1	PHE	118	-3.043	1.851	5.904	0.00	0.00	C
ATOM	1851	CE2	PHE	118	-5.209	2.685	5.172	0.00	0.00	C
ATOM	1852	CZ	PHE	118	-3.895	2.283	4.874	0.00	0.00	C
ATOM	1853	H	PHE	118	-5.927	2.229	11.388	0.00	0.00	H
ATOM	1854	HA	PHE	118	-3.914	3.461	9.767	0.00	0.00	H
ATOM	1855	ZHB	PHE	118	-4.905	1.210	9.422	0.00	0.00	H
ATOM	1856	3HB	PHE	118	-6.423	1.960	8.949	0.00	0.00	H
ATOM	1857	HD1	PHE	118	-2.857	1.456	8.015	0.00	0.00	H
ATOM	1858	HD2	PHE	118	-6.683	2.952	6.717	0.00	0.00	H
ATOM	1859	HE1	PHE	118	-2.030	1.553	5.679	0.00	0.00	H
ATOM	1860	HE2	PHE	118	-5.859	3.032	4.382	0.00	0.00	H

ATOM	1861	HZ	PHE	118	-3.538	2.314	3.855	0.00	0.00	H
ATOM	1862	N	THR	119	-6.854	4.939	9.864	0.00	0.00	N
ATOM	1863	CA	THR	119	-7.591	6.148	9.504	0.00	0.00	C
ATOM	1864	C	THR	119	-7.003	7.376	10.217	0.00	0.00	C
ATOM	1865	O	THR	119	-7.024	8.467	9.651	0.00	0.00	O
ATOM	1866	CB	THR	119	-9.084	5.942	9.832	0.00	0.00	C
ATOM	1867	CG2	THR	119	-9.945	7.166	9.493	0.00	0.00	C
ATOM	1868	OG1	THR	119	-9.587	4.848	9.092	0.00	0.00	O
ATOM	1869	H	THR	119	-7.246	4.361	10.595	0.00	0.00	H
ATOM	1870	HA	THR	119	-7.502	6.305	8.428	0.00	0.00	H
ATOM	1871	HB	THR	119	-9.191	5.724	10.896	0.00	0.00	H
ATOM	1872	1HG	THR	119	-9.123	4.054	9.369	0.00	0.00	H
ATOM	1873	1HG2	THR	119	-10.998	6.930	9.653	0.00	0.00	H
ATOM	1874	2HG2	THR	119	-9.682	8.003	10.139	0.00	0.00	H
ATOM	1875	3HG2	THR	119	-9.797	7.451	8.450	0.00	0.00	H
ATOM	1876	N	LYS	120	-6.445	7.198	11.425	0.00	0.00	N
ATOM	1877	CA	LYS	120	-5.843	8.265	12.225	0.00	0.00	C
ATOM	1878	C	LYS	120	-4.439	8.668	11.734	0.00	0.00	C
ATOM	1879	O	LYS	120	-3.858	9.600	12.292	0.00	0.00	O
ATOM	1880	CB	LYS	120	-5.837	7.843	13.704	0.00	0.00	C
ATOM	1881	CG	LYS	120	-7.251	7.889	14.307	0.00	0.00	C
ATOM	1882	CD	LYS	120	-7.251	7.316	15.726	0.00	0.00	C
ATOM	1883	CE	LYS	120	-8.652	7.373	16.334	0.00	0.00	C
ATOM	1884	NZ	LYS	120	-8.669	6.790	17.686	0.00	0.00	N
ATOM	1885	H	LYS	120	-6.446	6.272	11.829	0.00	0.00	H
ATOM	1886	HA	LYS	120	-6.473	9.151	12.135	0.00	0.00	H
ATOM	1887	2HB	LYS	120	-5.424	6.836	13.792	0.00	0.00	H
ATOM	1888	3HB	LYS	120	-5.207	8.524	14.275	0.00	0.00	H
ATOM	1889	2HG	LYS	120	-7.592	8.925	14.336	0.00	0.00	H
ATOM	1890	3HG	LYS	120	-7.943	7.315	13.691	0.00	0.00	H
ATOM	1891	2HD	LYS	120	-6.923	6.276	15.693	0.00	0.00	H
ATOM	1892	3HD	LYS	120	-6.567	7.893	16.348	0.00	0.00	H
ATOM	1893	2HE	LYS	120	-8.977	8.412	16.388	0.00	0.00	H
ATOM	1894	3HE	LYS	120	-9.341	6.817	15.698	0.00	0.00	H
ATOM	1895	1HZ	LYS	120	-9.602	6.847	18.067	0.00	0.00	H
ATOM	1896	2HZ	LYS	120	-8.385	5.822	17.639	0.00	0.00	H
ATOM	1897	3HZ	LYS	120	-8.029	7.298	18.281	0.00	0.00	H
ATOM	1898	N	ILE	121	-3.916	8.009	10.686	0.00	0.00	N
ATOM	1899	CA	ILE	121	-2.649	8.342	10.034	0.00	0.00	C
ATOM	1900	C	ILE	121	-2.852	8.700	8.555	0.00	0.00	C
ATOM	1901	O	ILE	121	-2.050	9.466	8.023	0.00	0.00	O
ATOM	1902	CB	ILE	121	-1.609	7.209	10.222	0.00	0.00	C
ATOM	1903	CG1	ILE	121	-2.054	5.894	9.546	0.00	0.00	C
ATOM	1904	CG2	ILE	121	-1.290	7.018	11.716	0.00	0.00	C
ATOM	1905	CD1	ILE	121	-1.088	4.721	9.727	0.00	0.00	C
ATOM	1906	H	ILE	121	-4.446	7.251	10.281	0.00	0.00	H
ATOM	1907	HA	ILE	121	-2.240	9.233	10.508	0.00	0.00	H
ATOM	1908	HB	ILE	121	-0.686	7.530	9.738	0.00	0.00	H
ATOM	1909	2HG1	ILE	121	-3.020	5.596	9.944	0.00	0.00	H
ATOM	1910	3HG1	ILE	121	-2.166	6.063	8.475	0.00	0.00	H
ATOM	1911	1HG2	ILE	121	-1.050	7.980	12.159	0.00	0.00	H
ATOM	1912	2HG2	ILE	121	-2.142	6.587	12.243	0.00	0.00	H
ATOM	1913	3HG2	ILE	121	-0.426	6.366	11.839	0.00	0.00	H
ATOM	1914	1HD1	ILE	121	-1.433	3.890	9.115	0.00	0.00	H
ATOM	1915	2HD1	ILE	121	-0.082	5.004	9.418	0.00	0.00	H
ATOM	1916	3HD1	ILE	121	-1.074	4.401	10.767	0.00	0.00	H
ATOM	1917	N	ALA	122	-3.909	8.178	7.906	0.00	0.00	N
ATOM	1918	CA	ALA	122	-4.157	8.326	6.472	0.00	0.00	C
ATOM	1919	C	ALA	122	-5.063	9.514	6.139	0.00	0.00	C
ATOM	1920	O	ALA	122	-4.963	10.049	5.037	0.00	0.00	O
ATOM	1921	CB	ALA	122	-4.773	7.035	5.936	0.00	0.00	C
ATOM	1922	H	ALA	122	-4.540	7.574	8.416	0.00	0.00	H
ATOM	1923	HA	ALA	122	-3.202	8.470	5.967	0.00	0.00	H
ATOM	1924	1HB	ALA	122	-4.872	7.104	4.852	0.00	0.00	H
ATOM	1925	2HB	ALA	122	-4.127	6.191	6.178	0.00	0.00	H
ATOM	1926	3HB	ALA	122	-5.759	6.879	6.374	0.00	0.00	H
ATOM	1927	N	THR	123	-5.924	9.939	7.076	0.00	0.00	N
ATOM	1928	CA	THR	123	-6.691	11.179	6.960	0.00	0.00	C
ATOM	1929	C	THR	123	-5.765	12.370	7.227	0.00	0.00	C
ATOM	1930	O	THR	123	-5.900	13.404	6.576	0.00	0.00	O
ATOM	1931	CB	THR	123	-7.882	11.145	7.939	0.00	0.00	C
ATOM	1932	CG2	THR	123	-8.739	12.416	7.882	0.00	0.00	C
ATOM	1933	OG1	THR	123	-8.719	10.047	7.640	0.00	0.00	O
ATOM	1934	H	THR	123	-5.975	9.446	7.957	0.00	0.00	H
ATOM	1935	HA	THR	123	-7.081	11.262	5.946	0.00	0.00	H
ATOM	1936	HB	THR	123	-7.504	11.029	8.955	0.00	0.00	H
ATOM	1937	1HG	THR	123	-8.220	9.238	7.775	0.00	0.00	H
ATOM	1938	1HG2	THR	123	-8.156	13.279	8.205	0.00	0.00	H
ATOM	1939	2HG2	THR	123	-9.100	12.581	6.868	0.00	0.00	H
ATOM	1940	3HG2	THR	123	-9.593	12.310	8.552	0.00	0.00	H
ATOM	1941	N	SER	124	-4.803	12.193	8.147	0.00	0.00	N
ATOM	1942	CA	SER	124	-3.802	13.180	8.531	0.00	0.00	C
ATOM	1943	C	SER	124	-2.650	13.297	7.514	0.00	0.00	C
ATOM	1944	O	SER	124	-1.838	14.214	7.633	0.00	0.00	O
ATOM	1945	CB	SER	124	-3.267	12.796	9.914	0.00	0.00	C
ATOM	1946	OG	SER	124	-4.288	12.840	10.890	0.00	0.00	O
ATOM	1947	H	SER	124	-4.757	11.304	8.623	0.00	0.00	H
ATOM	1948	HA	SER	124	-4.287	14.151	8.615	0.00	0.00	H
ATOM	1949	2HB	SER	124	-2.863	11.784	9.871	0.00	0.00	H
ATOM	1950	3HB	SER	124	-2.476	13.489	10.204	0.00	0.00	H
ATOM	1951	HG	SER	124	-3.913	12.581	11.735	0.00	0.00	H
ATOM	1952	N	LEU	125	-2.574	12.389	6.525	0.00	0.00	N
ATOM	1953	CA	LEU	125	-1.492	12.310	5.547	0.00	0.00	C
ATOM	1954	C	LEU	125	-1.567	13.426	4.494	0.00	0.00	C
ATOM	1955	O	LEU	125	-0.521	13.875	4.032	0.00	0.00	O
ATOM	1956	CB	LEU	125	-1.545	10.913	4.898	0.00	0.00	C
ATOM	1957	CG	LEU	125	-0.494	10.611	3.811	0.00	0.00	C
ATOM	1958	CD1	LEU	125	0.940	10.833	4.306	0.00	0.00	C
ATOM	1959	CD2	LEU	125	-0.637	9.151	3.361	0.00	0.00	C
ATOM	1960	H	LEU	125	-3.283	11.671	6.474	0.00	0.00	H
ATOM	1961	HA	LEU	125	-0.546	12.405	6.084	0.00	0.00	H
ATOM	1962	2HB	LEU	125	-1.431	10.171	5.686	0.00	0.00	H
ATOM	1963	3HB	LEU	125	-2.530	10.779	4.456	0.00	0.00	H
ATOM	1964	HG	LEU	125	-0.671	11.255	2.949	0.00	0.00	H
ATOM	1965	1HD1	LEU	125	1.103	10.288	5.236	0.00	0.00	H

ATOM	1966	ZHD1	LEU	125	1.109	11.892	4.477	0.00	0.00	H
ATOM	1967	3HD1	LEU	125	1.650	10.490	3.555	0.00	0.00	H
ATOM	1968	1HD2	LEU	125	-1.637	8.977	2.969	0.00	0.00	H
ATOM	1969	2HD2	LEU	125	0.092	8.934	2.581	0.00	0.00	H
ATOM	1970	3HD2	LEU	125	-0.467	8.478	4.200	0.00	0.00	H
ATOM	1971	N	PHE	126	-2.777	13.877	4.125	0.00	0.00	N
ATOM	1972	CA	PHE	126	-3.007	14.788	2.999	0.00	0.00	C
ATOM	1973	C	PHE	126	-3.421	16.201	3.442	0.00	0.00	C
ATOM	1974	O	PHE	126	-3.974	16.956	2.641	0.00	0.00	O
ATOM	1975	CB	PHE	126	-4.011	14.158	2.021	0.00	0.00	C
ATOM	1976	CG	PHE	126	-3.619	12.780	1.521	0.00	0.00	C
ATOM	1977	CD1	PHE	126	-2.795	12.634	0.389	0.00	0.00	C
ATOM	1978	CD2	PHE	126	-4.075	11.637	2.200	0.00	0.00	C
ATOM	1979	CE1	PHE	126	-2.451	11.351	-0.074	0.00	0.00	C
ATOM	1980	CE2	PHE	126	-3.717	10.358	1.748	0.00	0.00	C
ATOM	1981	CZ	PHE	126	-2.909	10.212	0.608	0.00	0.00	C
ATOM	1982	H	PHE	126	-3.596	13.489	4.571	0.00	0.00	H
ATOM	1983	HA	PHE	126	-2.068	14.894	2.458	0.00	0.00	H
ATOM	1984	ZHB	PHE	126	-4.982	14.097	2.512	0.00	0.00	H
ATOM	1985	ZHB	PHE	126	-4.125	14.812	1.156	0.00	0.00	H
ATOM	1986	HD1	PHE	126	-2.429	13.507	-0.127	0.00	0.00	H
ATOM	1987	HD2	PHE	126	-4.693	11.741	3.077	0.00	0.00	H
ATOM	1988	HE1	PHE	126	-1.829	11.241	-0.949	0.00	0.00	H
ATOM	1989	HE2	PHE	126	-4.070	9.490	2.282	0.00	0.00	H
ATOM	1990	HZ	PHE	126	-2.638	9.226	0.258	0.00	0.00	H
ATOM	1991	N	GLU	127	-3.159	16.563	4.708	0.00	0.00	N
ATOM	1992	CA	GLU	127	-3.566	17.835	5.310	0.00	0.00	C
ATOM	1993	C	GLU	127	-2.615	18.998	4.970	0.00	0.00	C
ATOM	1994	O	GLU	127	-2.752	20.081	5.542	0.00	0.00	O
ATOM	1995	CB	GLU	127	-3.747	17.655	6.829	0.00	0.00	C
ATOM	1996	CG	GLU	127	-4.757	16.559	7.203	0.00	0.00	C
ATOM	1997	CD	GLU	127	-6.152	16.813	6.627	0.00	0.00	C
ATOM	1998	OE1	GLU	127	-6.446	16.233	5.558	0.00	0.00	O
ATOM	1999	OE2	GLU	127	-6.900	17.584	7.266	0.00	0.00	O
ATOM	2000	H	GLU	127	-2.696	15.902	5.315	0.00	0.00	H
ATOM	2001	HA	GLU	127	-4.538	18.100	4.892	0.00	0.00	H
ATOM	2002	ZHB	GLU	127	-2.783	17.407	7.274	0.00	0.00	H
ATOM	2003	ZHB	GLU	127	-4.091	18.595	7.262	0.00	0.00	H
ATOM	2004	ZHG	GLU	127	-4.827	16.505	8.290	0.00	0.00	H
ATOM	2005	ZHG	GLU	127	-4.389	15.597	6.846	0.00	0.00	H
ATOM	2006	N	SER	128	-1.666	18.786	4.044	0.00	0.00	N
ATOM	2007	CA	SER	128	-0.728	19.794	3.555	0.00	0.00	C
ATOM	2008	C	SER	128	-0.407	19.624	2.056	0.00	0.00	C
ATOM	2009	O	SER	128	0.466	20.325	1.545	0.00	0.00	O
ATOM	2010	CB	SER	128	0.538	19.782	4.427	0.00	0.00	C
ATOM	2011	OG	SER	128	1.185	18.527	4.390	0.00	0.00	O
ATOM	2012	H	SER	128	-1.608	17.873	3.617	0.00	0.00	H
ATOM	2013	HA	SER	128	-1.195	20.773	3.663	0.00	0.00	H
ATOM	2014	ZHB	SER	128	1.228	20.550	4.079	0.00	0.00	H
ATOM	2015	ZHB	SER	128	0.264	20.006	5.459	0.00	0.00	H
ATOM	2016	HG	SER	128	0.598	17.873	4.778	0.00	0.00	H
ATOM	2017	N	GLY	129	-1.104	18.712	1.354	0.00	0.00	N
ATOM	2018	CA	GLY	129	-0.939	18.468	-0.075	0.00	0.00	C
ATOM	2019	C	GLY	129	-1.364	17.054	-0.479	0.00	0.00	C
ATOM	2020	O	GLY	129	-1.871	16.283	0.336	0.00	0.00	O
ATOM	2021	H	GLY	129	-1.808	18.167	1.830	0.00	0.00	H
ATOM	2022	ZHA	GLY	129	-1.537	19.191	-0.630	0.00	0.00	H
ATOM	2023	ZHA	GLY	129	0.107	18.606	-0.349	0.00	0.00	H
ATOM	2024	N	ILE	130	-1.133	16.720	-1.755	0.00	0.00	N
ATOM	2025	CA	ILE	130	-1.282	15.372	-2.296	0.00	0.00	C
ATOM	2026	C	ILE	130	-0.308	15.189	-3.468	0.00	0.00	C
ATOM	2027	O	ILE	130	-0.201	16.044	-4.348	0.00	0.00	O
ATOM	2028	CB	ILE	130	-2.757	15.054	-2.656	0.00	0.00	C
ATOM	2029	CG1	ILE	130	-2.868	13.620	-3.225	0.00	0.00	C
ATOM	2030	CG2	ILE	130	-3.386	16.095	-3.603	0.00	0.00	C
ATOM	2031	CD1	ILE	130	-4.290	13.045	-3.200	0.00	0.00	C
ATOM	2032	H	ILE	130	-0.736	17.414	-2.372	0.00	0.00	H
ATOM	2033	HA	ILE	130	-0.981	14.673	-1.513	0.00	0.00	H
ATOM	2034	HB	ILE	130	-3.326	15.083	-1.727	0.00	0.00	H
ATOM	2035	ZHG1	ILE	130	-2.497	13.601	-4.249	0.00	0.00	H
ATOM	2036	ZHG1	ILE	130	-2.238	12.955	-2.633	0.00	0.00	H
ATOM	2037	ZHG2	ILE	130	-2.837	16.135	-4.542	0.00	0.00	H
ATOM	2038	ZHG2	ILE	130	-4.425	15.841	-3.809	0.00	0.00	H
ATOM	2039	ZHG2	ILE	130	-3.369	17.083	-3.143	0.00	0.00	H
ATOM	2040	1HD1	ILE	130	-4.269	12.021	-3.574	0.00	0.00	H
ATOM	2041	2HD1	ILE	130	-4.672	13.042	-2.179	0.00	0.00	H
ATOM	2042	3HD1	ILE	130	-4.952	13.634	-3.833	0.00	0.00	H
ATOM	2043	N	ASN	131	0.402	14.054	-3.450	0.00	0.00	N
ATOM	2044	CA	ASN	131	1.422	13.681	-4.425	0.00	0.00	C
ATOM	2045	C	ASN	131	1.549	12.153	-4.506	0.00	0.00	C
ATOM	2046	O	ASN	131	1.007	11.429	-3.671	0.00	0.00	O
ATOM	2047	CB	ASN	131	2.760	14.352	-4.066	0.00	0.00	C
ATOM	2048	CG	ASN	131	3.246	14.024	-2.651	0.00	0.00	C
ATOM	2049	ND2	ASN	131	3.015	14.929	-1.698	0.00	0.00	N
ATOM	2050	OD1	ASN	131	3.820	12.964	-2.425	0.00	0.00	O
ATOM	2051	H	ASN	131	0.247	13.403	-2.695	0.00	0.00	H
ATOM	2052	HA	ASN	131	1.121	14.045	-5.407	0.00	0.00	H
ATOM	2053	ZHB	ASN	131	3.521	14.045	-4.784	0.00	0.00	H
ATOM	2054	ZHB	ASN	131	2.647	15.433	-4.162	0.00	0.00	H
ATOM	2055	1HD2	ASN	131	3.324	14.755	-0.752	0.00	0.00	H
ATOM	2056	2HD2	ASN	131	2.537	15.790	-1.923	0.00	0.00	H
ATOM	2057	N	TRP	132	2.280	11.669	-5.522	0.00	0.00	N
ATOM	2058	CA	TRP	132	2.464	10.247	-5.811	0.00	0.00	C
ATOM	2059	C	TRP	132	3.309	9.525	-4.746	0.00	0.00	C
ATOM	2060	O	TRP	132	3.221	8.302	-4.637	0.00	0.00	O
ATOM	2061	CB	TRP	132	3.087	10.124	-7.211	0.00	0.00	C
ATOM	2062	CG	TRP	132	3.301	8.732	-7.732	0.00	0.00	C
ATOM	2063	CD1	TRP	132	4.492	8.217	-8.107	0.00	0.00	C
ATOM	2064	CD2	TRP	132	2.321	7.675	-7.988	0.00	0.00	C
ATOM	2065	CE2	TRP	132	3.012	6.533	-8.495	0.00	0.00	C
ATOM	2066	CE3	TRP	132	0.916	7.567	-7.873	0.00	0.00	C
ATOM	2067	NE1	TRP	132	4.335	6.918	-8.532	0.00	0.00	N
ATOM	2068	CZ2	TRP	132	2.349	5.355	-8.865	0.00	0.00	C
ATOM	2069	CZ3	TRP	132	0.239	6.396	-8.265	0.00	0.00	C
ATOM	2070	CH2	TRP	132	0.953	5.292	-8.762	0.00	0.00	C

ATOM	2071	H	TRP	132	2.708	12.322	-6.164	0.00	0.00	H
ATOM	2072	HA	TRP	132	1.479	9.781	-5.836	0.00	0.00	H
ATOM	2073	2HB	TRP	132	2.441	10.641	-7.923	0.00	0.00	H
ATOM	2074	3HB	TRP	132	4.048	10.641	-7.207	0.00	0.00	H
ATOM	2075	HD1	TRP	132	5.434	8.744	-8.074	0.00	0.00	H
ATOM	2076	HE1	TRP	132	5.105	6.352	-8.857	0.00	0.00	H
ATOM	2077	HE3	TRP	132	0.347	8.405	-7.500	0.00	0.00	H
ATOM	2078	HZ2	TRP	132	2.907	4.518	-9.253	0.00	0.00	H
ATOM	2079	HZ3	TRP	132	-0.837	6.346	-8.192	0.00	0.00	H
ATOM	2080	HH2	TRP	132	0.429	4.403	-9.076	0.00	0.00	H
ATOM	2081	N	GLY	133	4.090	10.262	-3.940	0.00	0.00	N
ATOM	2082	CA	GLY	133	4.824	9.720	-2.804	0.00	0.00	C
ATOM	2083	C	GLY	133	3.929	9.425	-1.597	0.00	0.00	C
ATOM	2084	O	GLY	133	4.264	8.539	-0.817	0.00	0.00	O
ATOM	2085	H	GLY	133	4.127	11.263	-4.076	0.00	0.00	H
ATOM	2086	2HA	GLY	133	5.338	8.806	-3.103	0.00	0.00	H
ATOM	2087	3HA	GLY	133	5.568	10.452	-2.503	0.00	0.00	H
ATOM	2088	N	ARG	134	2.791	10.127	-1.459	0.00	0.00	N
ATOM	2089	CA	ARG	134	1.793	9.884	-0.418	0.00	0.00	C
ATOM	2090	C	ARG	134	0.782	8.804	-0.837	0.00	0.00	C
ATOM	2091	O	ARG	134	0.128	8.231	0.033	0.00	0.00	O
ATOM	2092	CB	ARG	134	1.069	11.194	-0.061	0.00	0.00	C
ATOM	2093	CG	ARG	134	1.993	12.198	0.640	0.00	0.00	C
ATOM	2094	CD	ARG	134	1.253	13.486	1.005	0.00	0.00	C
ATOM	2095	NE	ARG	134	2.171	14.434	1.652	0.00	0.00	N
ATOM	2096	CZ	ARG	134	1.833	15.623	2.177	0.00	0.00	C
ATOM	2097	NH1	ARG	134	0.566	16.058	2.184	0.00	0.00	N
ATOM	2098	NH2	ARG	134	2.785	16.397	2.709	0.00	0.00	N
ATOM	2099	H	ARG	134	2.578	10.844	-2.138	0.00	0.00	H
ATOM	2100	HA	ARG	134	2.301	9.529	0.480	0.00	0.00	H
ATOM	2101	2HB	ARG	134	0.657	11.645	-0.965	0.00	0.00	H
ATOM	2102	3HB	ARG	134	0.249	10.964	0.618	0.00	0.00	H
ATOM	2103	2HG	ARG	134	2.381	11.746	1.551	0.00	0.00	H
ATOM	2104	3HG	ARG	134	2.824	12.448	-0.015	0.00	0.00	H
ATOM	2105	2HD	ARG	134	0.848	13.940	0.100	0.00	0.00	H
ATOM	2106	3HD	ARG	134	0.433	13.249	1.682	0.00	0.00	H
ATOM	2107	HE	ARG	134	3.145	14.167	1.682	0.00	0.00	H
ATOM	2108	1HH1	ARG	134	-0.166	15.487	1.788	0.00	0.00	H
ATOM	2109	2HH1	ARG	134	0.344	16.959	2.581	0.00	0.00	H
ATOM	2110	1HH2	ARG	134	3.746	16.086	2.706	0.00	0.00	H
ATOM	2111	2HH2	ARG	134	2.545	17.294	3.105	0.00	0.00	H
ATOM	2112	N	VAL	135	0.673	8.502	-2.141	0.00	0.00	N
ATOM	2113	CA	VAL	135	-0.158	7.419	-2.659	0.00	0.00	C
ATOM	2114	C	VAL	135	0.507	6.066	-2.367	0.00	0.00	C
ATOM	2115	O	VAL	135	-0.179	5.137	-1.943	0.00	0.00	O
ATOM	2116	CB	VAL	135	-0.397	7.624	-4.174	0.00	0.00	C
ATOM	2117	CG1	VAL	135	-1.032	6.386	-4.828	0.00	0.00	C
ATOM	2118	CG2	VAL	135	-1.312	8.832	-4.436	0.00	0.00	C
ATOM	2119	H	VAL	135	1.234	9.010	-2.809	0.00	0.00	H
ATOM	2120	HA	VAL	135	-1.125	7.441	-2.153	0.00	0.00	H
ATOM	2121	HB	VAL	135	0.561	7.805	-4.664	0.00	0.00	H
ATOM	2122	1HG1	VAL	135	-0.337	5.548	-4.808	0.00	0.00	H
ATOM	2123	2HG1	VAL	135	-1.948	6.112	-4.303	0.00	0.00	H
ATOM	2124	3HG1	VAL	135	-1.265	6.598	-5.870	0.00	0.00	H
ATOM	2125	1HG2	VAL	135	-2.296	8.650	-4.007	0.00	0.00	H
ATOM	2126	2HG2	VAL	135	-0.895	9.732	-3.989	0.00	0.00	H
ATOM	2127	3HG2	VAL	135	-1.415	8.994	-5.510	0.00	0.00	H
ATOM	2128	N	VAL	136	1.826	5.968	-2.593	0.00	0.00	N
ATOM	2129	CA	VAL	136	2.584	4.720	-2.530	0.00	0.00	C
ATOM	2130	C	VAL	136	3.166	4.489	-1.121	0.00	0.00	C
ATOM	2131	O	VAL	136	3.505	3.351	-0.796	0.00	0.00	O
ATOM	2132	CB	VAL	136	3.639	4.710	-3.667	0.00	0.00	C
ATOM	2133	CG1	VAL	136	4.455	3.405	-3.717	0.00	0.00	C
ATOM	2134	CG2	VAL	136	2.969	4.876	-5.047	0.00	0.00	C
ATOM	2135	H	VAL	136	2.324	6.784	-2.921	0.00	0.00	H
ATOM	2136	HA	VAL	136	1.894	3.897	-2.729	0.00	0.00	H
ATOM	2137	HB	VAL	136	4.327	5.541	-3.509	0.00	0.00	H
ATOM	2138	1HG1	VAL	136	3.787	2.547	-3.802	0.00	0.00	H
ATOM	2139	2HG1	VAL	136	5.129	3.417	-4.574	0.00	0.00	H
ATOM	2140	3HG1	VAL	136	5.064	3.298	-2.821	0.00	0.00	H
ATOM	2141	1HG2	VAL	136	3.717	4.818	-5.839	0.00	0.00	H
ATOM	2142	2HG2	VAL	136	2.228	4.093	-5.197	0.00	0.00	H
ATOM	2143	3HG2	VAL	136	2.473	5.843	-5.126	0.00	0.00	H
ATOM	2144	N	ALA	137	3.219	5.524	-0.262	0.00	0.00	N
ATOM	2145	CA	ALA	137	3.517	5.371	1.163	0.00	0.00	C
ATOM	2146	C	ALA	137	2.290	4.860	1.927	0.00	0.00	C
ATOM	2147	O	ALA	137	2.453	4.095	2.876	0.00	0.00	O
ATOM	2148	CB	ALA	137	3.994	6.705	1.750	0.00	0.00	C
ATOM	2149	H	ALA	137	2.935	6.439	-0.577	0.00	0.00	H
ATOM	2150	HA	ALA	137	4.325	4.648	1.279	0.00	0.00	H
ATOM	2151	1HB	ALA	137	4.175	6.591	2.819	0.00	0.00	H
ATOM	2152	2HB	ALA	137	4.925	7.010	1.274	0.00	0.00	H
ATOM	2153	3HB	ALA	137	3.235	7.474	1.600	0.00	0.00	H
ATOM	2154	N	LEU	138	1.076	5.246	1.495	0.00	0.00	N
ATOM	2155	CA	LEU	138	-0.179	4.781	2.076	0.00	0.00	C
ATOM	2156	C	LEU	138	-0.488	3.344	1.647	0.00	0.00	C
ATOM	2157	O	LEU	138	-0.985	2.567	2.462	0.00	0.00	O
ATOM	2158	CB	LEU	138	-1.312	5.736	1.664	0.00	0.00	C
ATOM	2159	CG	LEU	138	-2.696	5.355	2.228	0.00	0.00	C
ATOM	2160	CD1	LEU	138	-2.712	5.314	3.762	0.00	0.00	C
ATOM	2161	CD2	LEU	138	-3.743	6.363	1.742	0.00	0.00	C
ATOM	2162	H	LEU	138	1.013	5.872	0.705	0.00	0.00	H
ATOM	2163	HA	LEU	138	-0.074	4.810	3.161	0.00	0.00	H
ATOM	2164	2HB	LEU	138	-1.058	6.738	2.007	0.00	0.00	H
ATOM	2165	3HB	LEU	138	-1.372	5.757	0.574	0.00	0.00	H
ATOM	2166	HG	LEU	138	-2.982	4.373	1.849	0.00	0.00	H
ATOM	2167	1HD1	LEU	138	-2.043	4.541	4.136	0.00	0.00	H
ATOM	2168	2HD1	LEU	138	-2.408	6.280	4.168	0.00	0.00	H
ATOM	2169	3HD1	LEU	138	-3.720	5.078	4.102	0.00	0.00	H
ATOM	2170	1HD2	LEU	138	-4.733	6.057	2.077	0.00	0.00	H
ATOM	2171	2HD2	LEU	138	-3.517	7.348	2.143	0.00	0.00	H
ATOM	2172	3HD2	LEU	138	-3.736	6.408	0.655	0.00	0.00	H
ATOM	2173	N	LEU	139	-0.157	2.982	0.397	0.00	0.00	N
ATOM	2174	CA	LEU	139	-0.206	1.603	-0.074	0.00	0.00	C
ATOM	2175	C	LEU	139	0.890	0.774	0.615	0.00	0.00	C

ATOM	2176	O	LEU	139	0.696	-0.420	0.835	0.00	0.00	O
ATOM	2177	CB	LEU	139	-0.026	1.580	-1.605	0.00	0.00	C
ATOM	2178	CG	LEU	139	-0.657	0.333	-2.260	0.00	0.00	C
ATOM	2179	CD1	LEU	139	-2.168	0.531	-2.463	0.00	0.00	C
ATOM	2180	CD2	LEU	139	-0.010	0.042	-3.620	0.00	0.00	C
ATOM	2181	H	LEU	139	0.238	3.670	-0.227	0.00	0.00	H
ATOM	2182	HA	LEU	139	-1.184	1.191	0.183	0.00	0.00	H
ATOM	2183	ZHB	LEU	139	-0.482	2.467	-2.047	0.00	0.00	H
ATOM	2184	3HB	LEU	139	1.042	1.617	-1.828	0.00	0.00	H
ATOM	2185	HG	LEU	139	-0.496	-0.536	-1.621	0.00	0.00	H
ATOM	2186	1HD1	LEU	139	-2.352	1.384	-3.117	0.00	0.00	H
ATOM	2187	2HD1	LEU	139	-2.655	0.712	-1.506	0.00	0.00	H
ATOM	2188	3HD1	LEU	139	-2.599	-0.359	-2.921	0.00	0.00	H
ATOM	2189	1HD2	LEU	139	1.061	-0.116	-3.493	0.00	0.00	H
ATOM	2190	2HD2	LEU	139	-0.445	-0.862	-4.048	0.00	0.00	H
ATOM	2191	3HD2	LEU	139	-0.178	0.878	-4.299	0.00	0.00	H
ATOM	2192	N	GLY	140	2.012	1.423	0.972	0.00	0.00	N
ATOM	2193	CA	GLY	140	3.198	0.832	1.571	0.00	0.00	C
ATOM	2194	C	GLY	140	2.947	0.287	2.976	0.00	0.00	C
ATOM	2195	O	GLY	140	3.367	-0.833	3.265	0.00	0.00	O
ATOM	2196	H	GLY	140	2.069	2.412	0.769	0.00	0.00	H
ATOM	2197	ZHA	GLY	140	3.575	0.042	0.929	0.00	0.00	H
ATOM	2198	3HA	GLY	140	3.959	1.609	1.632	0.00	0.00	H
ATOM	2199	N	PHE	141	2.226	1.047	3.815	0.00	0.00	N
ATOM	2200	CA	PHE	141	1.783	0.599	5.132	0.00	0.00	C
ATOM	2201	C	PHE	141	0.424	-0.123	5.068	0.00	0.00	C
ATOM	2202	O	PHE	141	0.052	-0.792	6.031	0.00	0.00	O
ATOM	2203	CB	PHE	141	1.768	1.784	6.111	0.00	0.00	C
ATOM	2204	CG	PHE	141	1.413	1.371	7.530	0.00	0.00	C
ATOM	2205	CD1	PHE	141	2.288	0.542	8.258	0.00	0.00	C
ATOM	2206	CD2	PHE	141	0.167	1.719	8.086	0.00	0.00	C
ATOM	2207	CE1	PHE	141	1.911	0.050	9.518	0.00	0.00	C
ATOM	2208	CE2	PHE	141	-0.206	1.231	9.351	0.00	0.00	C
ATOM	2209	CZ	PHE	141	0.664	0.392	10.067	0.00	0.00	C
ATOM	2210	H	PHE	141	1.914	1.957	3.508	0.00	0.00	H
ATOM	2211	HA	PHE	141	2.515	-0.118	5.507	0.00	0.00	H
ATOM	2212	ZHB	PHE	141	2.756	2.247	6.124	0.00	0.00	H
ATOM	2213	3HB	PHE	141	1.054	2.530	5.757	0.00	0.00	H
ATOM	2214	HD1	PHE	141	3.240	0.259	7.838	0.00	0.00	H
ATOM	2215	HD2	PHE	141	-0.517	2.343	7.529	0.00	0.00	H
ATOM	2216	HE1	PHE	141	2.583	-0.592	10.066	0.00	0.00	H
ATOM	2217	HE2	PHE	141	-1.166	1.493	9.771	0.00	0.00	H
ATOM	2218	HZ	PHE	141	0.377	0.015	11.037	0.00	0.00	H
ATOM	2219	N	GLY	142	-0.299	-0.030	3.940	0.00	0.00	N
ATOM	2220	CA	GLY	142	-1.512	-0.801	3.692	0.00	0.00	C
ATOM	2221	C	GLY	142	-1.208	-2.292	3.507	0.00	0.00	C
ATOM	2222	O	GLY	142	-2.011	-3.127	3.916	0.00	0.00	O
ATOM	2223	H	GLY	142	0.046	0.539	3.182	0.00	0.00	H
ATOM	2224	ZHA	GLY	142	-2.207	-0.670	4.523	0.00	0.00	H
ATOM	2225	3HA	GLY	142	-1.976	-0.420	2.782	0.00	0.00	H
ATOM	2226	N	TYR	143	-0.026	-2.616	2.961	0.00	0.00	N
ATOM	2227	CA	TYR	143	0.501	-3.972	2.853	0.00	0.00	C
ATOM	2228	C	TYR	143	0.956	-4.514	4.212	0.00	0.00	C
ATOM	2229	O	TYR	143	0.847	-5.717	4.437	0.00	0.00	O
ATOM	2230	CB	TYR	143	1.671	-3.959	1.859	0.00	0.00	C
ATOM	2231	CG	TYR	143	2.561	-5.189	1.882	0.00	0.00	C
ATOM	2232	CD1	TYR	143	2.023	-6.459	1.601	0.00	0.00	C
ATOM	2233	CD2	TYR	143	3.924	-5.068	2.219	0.00	0.00	C
ATOM	2234	CE1	TYR	143	2.833	-7.606	1.649	0.00	0.00	C
ATOM	2235	CE2	TYR	143	4.741	-6.209	2.267	0.00	0.00	C
ATOM	2236	CZ	TYR	143	4.201	-7.484	1.984	0.00	0.00	C
ATOM	2237	OH	TYR	143	4.998	-8.589	2.036	0.00	0.00	O
ATOM	2238	H	TYR	143	0.583	-1.871	2.653	0.00	0.00	H
ATOM	2239	HA	TYR	143	-0.278	-4.626	2.460	0.00	0.00	H
ATOM	2240	ZHB	TYR	143	1.265	-3.845	0.855	0.00	0.00	H
ATOM	2241	3HB	TYR	143	2.292	-3.088	2.073	0.00	0.00	H
ATOM	2242	HD1	TYR	143	0.978	-6.554	1.360	0.00	0.00	H
ATOM	2243	HD2	TYR	143	4.347	-4.100	2.440	0.00	0.00	H
ATOM	2244	HE1	TYR	143	2.409	-8.576	1.436	0.00	0.00	H
ATOM	2245	HE2	TYR	143	5.785	-6.107	2.511	0.00	0.00	H
ATOM	2246	HH	TYR	143	5.908	-8.382	2.264	0.00	0.00	H
ATOM	2247	N	ARG	144	1.446	-3.650	5.114	0.00	0.00	N
ATOM	2248	CA	ARG	144	1.900	-4.052	6.442	0.00	0.00	C
ATOM	2249	C	ARG	144	0.726	-4.208	7.416	0.00	0.00	C
ATOM	2250	O	ARG	144	0.833	-5.000	8.349	0.00	0.00	O
ATOM	2251	CB	ARG	144	2.958	-3.061	6.954	0.00	0.00	C
ATOM	2252	CG	ARG	144	4.225	-2.991	6.082	0.00	0.00	C
ATOM	2253	CD	ARG	144	4.935	-4.343	5.925	0.00	0.00	C
ATOM	2254	NE	ARG	144	6.141	-4.210	5.100	0.00	0.00	N
ATOM	2255	CZ	ARG	144	6.991	-5.202	4.780	0.00	0.00	C
ATOM	2256	NH1	ARG	144	6.826	-6.449	5.243	0.00	0.00	N
ATOM	2257	NH2	ARG	144	8.023	-4.938	3.971	0.00	0.00	N
ATOM	2258	H	ARG	144	1.508	-2.670	4.877	0.00	0.00	H
ATOM	2259	HA	ARG	144	2.368	-5.032	6.363	0.00	0.00	H
ATOM	2260	ZHB	ARG	144	2.514	-2.067	7.010	0.00	0.00	H
ATOM	2261	3HB	ARG	144	3.254	-3.350	7.960	0.00	0.00	H
ATOM	2262	ZHG	ARG	144	3.963	-2.615	5.094	0.00	0.00	H
ATOM	2263	3HG	ARG	144	4.917	-2.283	6.539	0.00	0.00	H
ATOM	2264	ZHD	ARG	144	5.207	-4.722	6.910	0.00	0.00	H
ATOM	2265	3HD	ARG	144	4.268	-5.056	5.439	0.00	0.00	H
ATOM	2266	HE	ARG	144	6.331	-3.290	4.730	0.00	0.00	H
ATOM	2267	1HH1	ARG	144	6.049	-6.664	5.851	0.00	0.00	H
ATOM	2268	2HH1	ARG	144	7.480	-7.174	4.981	0.00	0.00	H
ATOM	2269	1HH2	ARG	144	8.165	-3.999	3.624	0.00	0.00	H
ATOM	2270	2HH2	ARG	144	8.660	-5.673	3.720	0.00	0.00	H
ATOM	2271	N	LEU	145	-0.403	-3.526	7.165	0.00	0.00	N
ATOM	2272	CA	LEU	145	-1.680	-3.755	7.833	0.00	0.00	C
ATOM	2273	C	LEU	145	-2.279	-5.096	7.379	0.00	0.00	C
ATOM	2274	O	LEU	145	-2.863	-5.806	8.197	0.00	0.00	O
ATOM	2275	CB	LEU	145	-2.613	-2.574	7.500	0.00	0.00	C
ATOM	2276	CG	LEU	145	-4.074	-2.722	7.979	0.00	0.00	C
ATOM	2277	CD1	LEU	145	-4.189	-2.834	9.503	0.00	0.00	C
ATOM	2278	CD2	LEU	145	-4.900	-1.521	7.500	0.00	0.00	C
ATOM	2279	H	LEU	145	-0.413	-2.885	6.384	0.00	0.00	H
ATOM	2280	HA	LEU	145	-1.516	-3.785	8.911	0.00	0.00	H

ATOM	2281	ZHB	LEU	145	-2.188	-1.665	7.933	0.00	0.00	H
ATOM	2282	3HB	LEU	145	-2.629	-2.445	6.418	0.00	0.00	H
ATOM	2283	HG	LEU	145	-4.510	-3.618	7.541	0.00	0.00	H
ATOM	2284	1HD1	LEU	145	-3.721	-1.972	9.979	0.00	0.00	H
ATOM	2285	2HD1	LEU	145	-5.242	-2.873	9.783	0.00	0.00	H
ATOM	2286	3HD1	LEU	145	-3.708	-3.747	9.848	0.00	0.00	H
ATOM	2287	1HD2	LEU	145	-4.543	-0.618	7.988	0.00	0.00	H
ATOM	2288	2HD2	LEU	145	-4.808	-1.406	6.420	0.00	0.00	H
ATOM	2289	3HD2	LEU	145	-5.950	-1.671	7.751	0.00	0.00	H
ATOM	2290	N	ALA	146	-2.108	-5.447	6.095	0.00	0.00	N
ATOM	2291	CA	ALA	146	-2.603	-6.683	5.503	0.00	0.00	C
ATOM	2292	C	ALA	146	-1.759	-7.897	5.908	0.00	0.00	C
ATOM	2293	O	ALA	146	-2.285	-9.006	5.937	0.00	0.00	O
ATOM	2294	CB	ALA	146	-2.631	-6.517	3.981	0.00	0.00	C
ATOM	2295	H	ALA	146	-1.609	-4.817	5.482	0.00	0.00	H
ATOM	2296	HA	ALA	146	-3.626	-6.845	5.842	0.00	0.00	H
ATOM	2297	1HB	ALA	146	-3.261	-5.670	3.722	0.00	0.00	H
ATOM	2298	2HB	ALA	146	-1.625	-6.350	3.598	0.00	0.00	H
ATOM	2299	3HB	ALA	146	-3.045	-7.406	3.512	0.00	0.00	H
ATOM	2300	N	LEU	147	-0.478	-7.689	6.248	0.00	0.00	N
ATOM	2301	CA	LEU	147	0.453	-8.731	6.669	0.00	0.00	C
ATOM	2302	C	LEU	147	0.392	-8.954	8.188	0.00	0.00	C
ATOM	2303	O	LEU	147	0.714	-10.047	8.649	0.00	0.00	O
ATOM	2304	CB	LEU	147	1.861	-8.334	6.186	0.00	0.00	C
ATOM	2305	CG	LEU	147	2.972	-9.375	6.428	0.00	0.00	C
ATOM	2306	CD1	LEU	147	2.698	-10.713	5.718	0.00	0.00	C
ATOM	2307	CD2	LEU	147	4.311	-8.803	5.942	0.00	0.00	C
ATOM	2308	H	LEU	147	-0.114	-6.748	6.208	0.00	0.00	H
ATOM	2309	HA	LEU	147	0.169	-9.657	6.170	0.00	0.00	H
ATOM	2310	2HB	LEU	147	1.812	-8.137	5.113	0.00	0.00	H
ATOM	2311	3HB	LEU	147	2.141	-7.404	6.683	0.00	0.00	H
ATOM	2312	HG	LEU	147	3.060	-9.560	7.497	0.00	0.00	H
ATOM	2313	1HD1	LEU	147	3.543	-11.388	5.861	0.00	0.00	H
ATOM	2314	2HD1	LEU	147	1.811	-11.188	6.135	0.00	0.00	H
ATOM	2315	3HD1	LEU	147	2.551	-10.548	4.649	0.00	0.00	H
ATOM	2316	1HD2	LEU	147	4.529	-7.876	6.475	0.00	0.00	H
ATOM	2317	2HD2	LEU	147	4.268	-8.598	4.872	0.00	0.00	H
ATOM	2318	3HD2	LEU	147	5.114	-9.514	6.139	0.00	0.00	H
ATOM	2319	N	HIP	148	-0.052	-7.949	8.960	0.00	0.00	N
ATOM	2320	CA	HIP	148	-0.213	-8.030	10.409	0.00	0.00	C
ATOM	2321	C	HIP	148	-1.381	-8.948	10.782	0.00	0.00	C
ATOM	2322	O	HIP	148	-1.254	-9.728	11.725	0.00	0.00	O
ATOM	2323	CB	HIP	148	-0.417	-6.608	10.947	0.00	0.00	C
ATOM	2324	CG	HIP	148	-0.552	-6.494	12.445	0.00	0.00	C
ATOM	2325	CD2	HIP	148	-1.720	-6.312	13.136	0.00	0.00	C
ATOM	2326	ND1	HIP	148	0.491	-6.389	13.347	0.00	0.00	N
ATOM	2327	CE1	HIP	148	-0.034	-6.143	14.561	0.00	0.00	C
ATOM	2328	NE2	HIP	148	-1.374	-6.094	14.455	0.00	0.00	N
ATOM	2329	H	HIP	148	-0.310	-7.077	8.521	0.00	0.00	H
ATOM	2330	HA	HIP	148	0.705	-8.433	10.840	0.00	0.00	H
ATOM	2331	ZHB	HIP	148	0.444	-6.011	10.655	0.00	0.00	H
ATOM	2332	3HB	HIP	148	-1.301	-6.169	10.483	0.00	0.00	H
ATOM	2333	HD1	HIP	148	1.474	-6.442	13.126	0.00	0.00	H
ATOM	2334	HD2	HIP	148	-2.716	-6.281	12.720	0.00	0.00	H
ATOM	2335	HE1	HIP	148	0.530	-5.983	15.469	0.00	0.00	H
ATOM	2336	HE2	HIP	148	-2.020	-5.897	15.208	0.00	0.00	H
ATOM	2337	N	VAL	149	-2.483	-8.891	10.016	0.00	0.00	N
ATOM	2338	CA	VAL	149	-3.653	-9.749	10.193	0.00	0.00	C
ATOM	2339	C	VAL	149	-3.420	-11.144	9.593	0.00	0.00	C
ATOM	2340	O	VAL	149	-3.977	-12.114	10.100	0.00	0.00	O
ATOM	2341	CB	VAL	149	-4.920	-9.075	9.617	0.00	0.00	C
ATOM	2342	CG1	VAL	149	-5.224	-7.751	10.339	0.00	0.00	C
ATOM	2343	CG2	VAL	149	-4.843	-8.839	8.098	0.00	0.00	C
ATOM	2344	H	VAL	149	-2.512	-8.232	9.252	0.00	0.00	H
ATOM	2345	HA	VAL	149	-3.815	-9.879	11.265	0.00	0.00	H
ATOM	2346	HB	VAL	149	-5.765	-9.741	9.802	0.00	0.00	H
ATOM	2347	1HG1	VAL	149	-4.434	-7.022	10.157	0.00	0.00	H
ATOM	2348	2HG1	VAL	149	-6.167	-7.342	9.978	0.00	0.00	H
ATOM	2349	3HG1	VAL	149	-5.306	-7.927	11.413	0.00	0.00	H
ATOM	2350	1HG2	VAL	149	-4.747	-9.789	7.571	0.00	0.00	H
ATOM	2351	2HG2	VAL	149	-5.749	-8.349	7.749	0.00	0.00	H
ATOM	2352	3HG2	VAL	149	-3.993	-8.204	7.858	0.00	0.00	H
ATOM	2353	N	TYR	150	-2.572	-11.260	8.558	0.00	0.00	N
ATOM	2354	CA	TYR	150	-2.218	-12.533	7.934	0.00	0.00	C
ATOM	2355	C	TYR	150	-1.365	-13.400	8.872	0.00	0.00	C
ATOM	2356	O	TYR	150	-1.453	-14.626	8.818	0.00	0.00	O
ATOM	2357	CB	TYR	150	-1.464	-12.234	6.633	0.00	0.00	C
ATOM	2358	CG	TYR	150	-1.239	-13.435	5.740	0.00	0.00	C
ATOM	2359	CD1	TYR	150	-0.012	-14.127	5.761	0.00	0.00	C
ATOM	2360	CD2	TYR	150	-2.268	-13.852	4.876	0.00	0.00	C
ATOM	2361	CE1	TYR	150	0.182	-15.240	4.924	0.00	0.00	C
ATOM	2362	CE2	TYR	150	-2.081	-14.960	4.037	0.00	0.00	C
ATOM	2363	CZ	TYR	150	-0.855	-15.661	4.059	0.00	0.00	C
ATOM	2364	OH	TYR	150	-0.679	-16.740	3.248	0.00	0.00	O
ATOM	2365	H	TYR	150	-2.135	-10.429	8.187	0.00	0.00	H
ATOM	2366	HA	TYR	150	-3.137	-13.067	7.691	0.00	0.00	H
ATOM	2367	ZHB	TYR	150	-2.041	-11.510	6.063	0.00	0.00	H
ATOM	2368	3HB	TYR	150	-0.503	-11.780	6.872	0.00	0.00	H
ATOM	2369	HD1	TYR	150	0.780	-13.810	6.422	0.00	0.00	H
ATOM	2370	HD2	TYR	150	-3.209	-13.324	4.860	0.00	0.00	H
ATOM	2371	HE1	TYR	150	1.123	-15.772	4.944	0.00	0.00	H
ATOM	2372	HE2	TYR	150	-2.877	-15.277	3.382	0.00	0.00	H
ATOM	2373	HH	TYR	150	0.182	-17.151	3.350	0.00	0.00	H
ATOM	2374	N	GLN	151	-0.580	-12.754	9.747	0.00	0.00	N
ATOM	2375	CA	GLN	151	0.251	-13.380	10.770	0.00	0.00	C
ATOM	2376	C	GLN	151	-0.536	-13.667	12.063	0.00	0.00	C
ATOM	2377	O	GLN	151	-0.014	-14.355	12.939	0.00	0.00	O
ATOM	2378	CB	GLN	151	1.472	-12.479	11.024	0.00	0.00	C
ATOM	2379	CG	GLN	151	2.463	-12.527	9.844	0.00	0.00	C
ATOM	2380	CD	GLN	151	3.585	-11.486	9.930	0.00	0.00	C
ATOM	2381	NE2	GLN	151	4.541	-11.570	9.003	0.00	0.00	N
ATOM	2382	OE1	GLN	151	3.593	-10.615	10.799	0.00	0.00	O
ATOM	2383	H	GLN	151	-0.570	-11.744	9.721	0.00	0.00	H
ATOM	2384	HA	GLN	151	0.611	-14.337	10.390	0.00	0.00	H
ATOM	2385	ZHB	GLN	151	1.129	-11.456	11.187	0.00	0.00	H

ATOM	2386	3HB	GLN	151	1.994	-12.815	11.922	0.00	0.00	H
ATOM	2387	ZHG	GLN	151	2.910	-13.522	9.806	0.00	0.00	H
ATOM	2388	3HG	GLN	151	1.933	-12.374	8.904	0.00	0.00	H
ATOM	2389	1HE2	GLN	151	5.306	-10.910	9.005	0.00	0.00	H
ATOM	2390	2HE2	GLN	151	4.502	-12.296	8.301	0.00	0.00	H
ATOM	2391	N	HIP	152	-1.789	-13.191	12.164	0.00	0.00	N
ATOM	2392	CA	HIP	152	-2.751	-13.587	13.195	0.00	0.00	C
ATOM	2393	C	HIP	152	-3.616	-14.781	12.746	0.00	0.00	C
ATOM	2394	O	HIP	152	-4.551	-15.152	13.456	0.00	0.00	O
ATOM	2395	CB	HIP	152	-3.616	-12.380	13.597	0.00	0.00	C
ATOM	2396	CG	HIP	152	-2.850	-11.206	14.155	0.00	0.00	C
ATOM	2397	CD2	HIP	152	-3.279	-9.907	14.168	0.00	0.00	C
ATOM	2398	ND1	HIP	152	-1.611	-11.243	14.773	0.00	0.00	N
ATOM	2399	CE1	HIP	152	-1.295	-9.989	15.145	0.00	0.00	C
ATOM	2400	NE2	HIP	152	-2.296	-9.165	14.789	0.00	0.00	N
ATOM	2401	H	HIP	152	-2.147	-12.616	11.415	0.00	0.00	H
ATOM	2402	HA	HIP	152	-2.199	-13.906	14.081	0.00	0.00	H
ATOM	2403	ZHB	HIP	152	-4.186	-12.044	12.732	0.00	0.00	H
ATOM	2404	3HB	HIP	152	-4.329	-12.695	14.361	0.00	0.00	H
ATOM	2405	HD1	HIP	152	-1.044	-12.066	14.915	0.00	0.00	H
ATOM	2406	HD2	HIP	152	-4.214	-9.534	13.773	0.00	0.00	H
ATOM	2407	HE1	HIP	152	-0.387	-9.694	15.650	0.00	0.00	H
ATOM	2408	HE2	HIP	152	-2.325	-8.169	14.951	0.00	0.00	H
ATOM	2409	N	GLY	153	-3.321	-15.375	11.576	0.00	0.00	N
ATOM	2410	CA	GLY	153	-4.087	-16.469	10.987	0.00	0.00	C
ATOM	2411	C	GLY	153	-5.388	-16.014	10.312	0.00	0.00	C
ATOM	2412	O	GLY	153	-6.183	-16.867	9.920	0.00	0.00	O
ATOM	2413	H	GLY	153	-2.538	-15.030	11.039	0.00	0.00	H
ATOM	2414	ZHA	GLY	153	-3.461	-16.951	10.236	0.00	0.00	H
ATOM	2415	3HA	GLY	153	-4.323	-17.199	11.761	0.00	0.00	H
ATOM	2416	N	LEU	154	-5.604	-14.694	10.179	0.00	0.00	N
ATOM	2417	CA	LEU	154	-6.771	-14.092	9.544	0.00	0.00	C
ATOM	2418	C	LEU	154	-6.447	-13.868	8.060	0.00	0.00	C
ATOM	2419	O	LEU	154	-6.257	-12.739	7.607	0.00	0.00	O
ATOM	2420	CB	LEU	154	-7.197	-12.807	10.290	0.00	0.00	C
ATOM	2421	CG	LEU	154	-7.318	-12.924	11.823	0.00	0.00	C
ATOM	2422	CD1	LEU	154	-7.649	-11.544	12.412	0.00	0.00	C
ATOM	2423	CD2	LEU	154	-8.383	-13.947	12.246	0.00	0.00	C
ATOM	2424	H	LEU	154	-4.905	-14.057	10.530	0.00	0.00	H
ATOM	2425	HA	LEU	154	-7.603	-14.795	9.603	0.00	0.00	H
ATOM	2426	ZHB	LEU	154	-6.485	-12.015	10.068	0.00	0.00	H
ATOM	2427	3HB	LEU	154	-8.161	-12.495	9.893	0.00	0.00	H
ATOM	2428	HG	LEU	154	-6.359	-13.233	12.239	0.00	0.00	H
ATOM	2429	1HD1	LEU	154	-6.863	-10.835	12.151	0.00	0.00	H
ATOM	2430	2HD1	LEU	154	-8.602	-11.185	12.019	0.00	0.00	H
ATOM	2431	3HD1	LEU	154	-7.711	-11.609	13.499	0.00	0.00	H
ATOM	2432	1HD2	LEU	154	-8.106	-14.942	11.900	0.00	0.00	H
ATOM	2433	2HD2	LEU	154	-8.460	-13.970	13.333	0.00	0.00	H
ATOM	2434	3HD2	LEU	154	-9.352	-13.676	11.824	0.00	0.00	H
ATOM	2435	N	THR	155	-6.327	-14.980	7.322	0.00	0.00	N
ATOM	2436	CA	THR	155	-5.884	-15.008	5.930	0.00	0.00	C
ATOM	2437	C	THR	155	-7.041	-14.788	4.941	0.00	0.00	C
ATOM	2438	O	THR	155	-6.786	-14.436	3.790	0.00	0.00	O
ATOM	2439	CB	THR	155	-5.134	-16.322	5.642	0.00	0.00	C
ATOM	2440	CG2	THR	155	-3.946	-16.545	6.592	0.00	0.00	C
ATOM	2441	OG1	THR	155	-6.016	-17.422	5.738	0.00	0.00	O
ATOM	2442	H	THR	155	-6.489	-15.874	7.763	0.00	0.00	H
ATOM	2443	HA	THR	155	-5.175	-14.192	5.787	0.00	0.00	H
ATOM	2444	HB	THR	155	-4.751	-16.272	4.623	0.00	0.00	H
ATOM	2445	1HG	THR	155	-5.537	-18.220	5.499	0.00	0.00	H
ATOM	2446	1HG2	THR	155	-3.310	-17.357	6.199	0.00	0.00	H
ATOM	2447	2HG2	THR	155	-3.357	-15.633	6.676	0.00	0.00	H
ATOM	2448	3HG2	THR	155	-4.298	-16.829	7.584	0.00	0.00	H
ATOM	2449	N	GLY	156	-8.297	-14.958	5.388	0.00	0.00	N
ATOM	2450	CA	GLY	156	-9.491	-14.523	4.669	0.00	0.00	C
ATOM	2451	C	GLY	156	-9.781	-13.031	4.878	0.00	0.00	C
ATOM	2452	O	GLY	156	-10.482	-12.430	4.064	0.00	0.00	O
ATOM	2453	H	GLY	156	-8.432	-15.278	6.336	0.00	0.00	H
ATOM	2454	ZHA	GLY	156	-9.373	-14.725	3.604	0.00	0.00	H
ATOM	2455	3HA	GLY	156	-10.340	-15.097	5.042	0.00	0.00	H
ATOM	2456	N	PHE	157	-9.207	-12.431	5.934	0.00	0.00	N
ATOM	2457	CA	PHE	157	-9.251	-10.999	6.221	0.00	0.00	C
ATOM	2458	C	PHE	157	-8.204	-10.224	5.398	0.00	0.00	C
ATOM	2459	O	PHE	157	-8.171	-8.996	5.458	0.00	0.00	O
ATOM	2460	CB	PHE	157	-9.072	-10.807	7.735	0.00	0.00	C
ATOM	2461	CG	PHE	157	-9.696	-9.557	8.328	0.00	0.00	C
ATOM	2462	CD1	PHE	157	-8.951	-8.370	8.447	0.00	0.00	C
ATOM	2463	CD2	PHE	157	-11.012	-9.602	8.829	0.00	0.00	C
ATOM	2464	CE1	PHE	157	-9.514	-7.238	9.060	0.00	0.00	C
ATOM	2465	CE2	PHE	157	-11.574	-8.472	9.447	0.00	0.00	C
ATOM	2466	CZ	PHE	157	-10.822	-7.291	9.569	0.00	0.00	C
ATOM	2467	H	PHE	157	-8.644	-12.994	6.557	0.00	0.00	H
ATOM	2468	HA	PHE	157	-10.241	-10.635	5.948	0.00	0.00	H
ATOM	2469	ZHB	PHE	157	-9.525	-11.658	8.246	0.00	0.00	H
ATOM	2470	3HB	PHE	157	-8.009	-10.816	7.973	0.00	0.00	H
ATOM	2471	HD1	PHE	157	-7.939	-8.327	8.083	0.00	0.00	H
ATOM	2472	HD2	PHE	157	-11.592	-10.511	8.752	0.00	0.00	H
ATOM	2473	HE1	PHE	157	-8.931	-6.334	9.159	0.00	0.00	H
ATOM	2474	HE2	PHE	157	-12.580	-8.514	9.838	0.00	0.00	H
ATOM	2475	HZ	PHE	157	-11.247	-6.431	10.061	0.00	0.00	H
ATOM	2476	N	LEU	158	-7.368	-10.927	4.613	0.00	0.00	N
ATOM	2477	CA	LEU	158	-6.382	-10.348	3.706	0.00	0.00	C
ATOM	2478	C	LEU	158	-7.070	-9.576	2.569	0.00	0.00	C
ATOM	2479	O	LEU	158	-6.617	-8.491	2.207	0.00	0.00	O
ATOM	2480	CB	LEU	158	-5.523	-11.501	3.153	0.00	0.00	C
ATOM	2481	CG	LEU	158	-4.308	-11.071	2.308	0.00	0.00	C
ATOM	2482	CD1	LEU	158	-3.240	-10.383	3.167	0.00	0.00	C
ATOM	2483	CD2	LEU	158	-3.691	-12.300	1.625	0.00	0.00	C
ATOM	2484	H	LEU	158	-7.442	-11.934	4.612	0.00	0.00	H
ATOM	2485	HA	LEU	158	-5.756	-9.664	4.279	0.00	0.00	H
ATOM	2486	ZHB	LEU	158	-5.164	-12.105	3.988	0.00	0.00	H
ATOM	2487	3HB	LEU	158	-6.164	-12.133	2.538	0.00	0.00	H
ATOM	2488	HG	LEU	158	-4.633	-10.379	1.530	0.00	0.00	H
ATOM	2489	1HD1	LEU	158	-3.668	-9.513	3.658	0.00	0.00	H
ATOM	2490	2HD1	LEU	158	-2.869	-11.071	3.925	0.00	0.00	H

ATOM	2491	3HD1	LEU	158	-2.407	-10.059	2.546	0.00	0.00	H
ATOM	2492	1HD2	LEU	158	-3.353	-13.017	2.370	0.00	0.00	H
ATOM	2493	2HD2	LEU	158	-4.429	-12.780	0.984	0.00	0.00	H
ATOM	2494	3HD2	LEU	158	-2.842	-11.992	1.018	0.00	0.00	H
ATOM	2495	N	GLY	159	-8.183	-10.121	2.047	0.00	0.00	N
ATOM	2496	CA	GLY	159	-9.027	-9.496	1.036	0.00	0.00	C
ATOM	2497	C	GLY	159	-9.994	-8.447	1.601	0.00	0.00	C
ATOM	2498	O	GLY	159	-10.704	-7.814	0.819	0.00	0.00	O
ATOM	2499	H	GLY	159	-8.492	-11.015	2.404	0.00	0.00	H
ATOM	2500	2HA	GLY	159	-8.393	-9.028	0.283	0.00	0.00	H
ATOM	2501	3HA	GLY	159	-9.611	-10.279	0.554	0.00	0.00	H
ATOM	2502	N	GLN	160	-10.027	-8.255	2.930	0.00	0.00	N
ATOM	2503	CA	GLN	160	-10.853	-7.252	3.601	0.00	0.00	C
ATOM	2504	C	GLN	160	-10.052	-5.975	3.882	0.00	0.00	C
ATOM	2505	O	GLN	160	-10.643	-4.896	3.894	0.00	0.00	O
ATOM	2506	CB	GLN	160	-11.452	-7.827	4.895	0.00	0.00	C
ATOM	2507	CG	GLN	160	-12.347	-9.051	4.634	0.00	0.00	C
ATOM	2508	CD	GLN	160	-13.000	-9.591	5.909	0.00	0.00	C
ATOM	2509	NE2	GLN	160	-13.087	-10.919	6.026	0.00	0.00	N
ATOM	2510	OE1	GLN	160	-13.433	-8.829	6.770	0.00	0.00	O
ATOM	2511	H	GLN	160	-9.421	-8.811	3.517	0.00	0.00	H
ATOM	2512	HA	GLN	160	-11.684	-6.985	2.948	0.00	0.00	H
ATOM	2513	ZHB	GLN	160	-10.652	-8.103	5.582	0.00	0.00	H
ATOM	2514	3HB	GLN	160	-12.052	-7.047	5.367	0.00	0.00	H
ATOM	2515	ZHG	GLN	160	-13.133	-8.780	3.929	0.00	0.00	H
ATOM	2516	3HG	GLN	160	-11.748	-9.843	4.181	0.00	0.00	H
ATOM	2517	1HE2	GLN	160	-13.514	-11.326	6.846	0.00	0.00	H
ATOM	2518	ZHE2	GLN	160	-12.722	-11.516	5.297	0.00	0.00	H
ATOM	2519	N	VAL	161	-8.723	-6.082	4.057	0.00	0.00	N
ATOM	2520	CA	VAL	161	-7.820	-4.932	4.107	0.00	0.00	C
ATOM	2521	C	VAL	161	-7.623	-4.370	2.688	0.00	0.00	C
ATOM	2522	O	VAL	161	-7.433	-3.162	2.542	0.00	0.00	O
ATOM	2523	CB	VAL	161	-6.481	-5.317	4.779	0.00	0.00	C
ATOM	2524	CG1	VAL	161	-5.531	-4.109	4.842	0.00	0.00	C
ATOM	2525	CG2	VAL	161	-6.677	-5.820	6.222	0.00	0.00	C
ATOM	2526	H	VAL	161	-8.300	-6.999	4.051	0.00	0.00	H
ATOM	2527	HA	VAL	161	-8.289	-4.157	4.713	0.00	0.00	H
ATOM	2528	HB	VAL	161	-6.004	-6.108	4.197	0.00	0.00	H
ATOM	2529	1HG1	VAL	161	-4.612	-4.384	5.356	0.00	0.00	H
ATOM	2530	2HG1	VAL	161	-5.265	-3.778	3.841	0.00	0.00	H
ATOM	2531	3HG1	VAL	161	-6.011	-3.287	5.371	0.00	0.00	H
ATOM	2532	1HG2	VAL	161	-7.131	-5.044	6.834	0.00	0.00	H
ATOM	2533	2HG2	VAL	161	-7.316	-6.700	6.237	0.00	0.00	H
ATOM	2534	3HG2	VAL	161	-5.714	-6.088	6.655	0.00	0.00	H
ATOM	2535	N	THR	162	-7.742	-5.217	1.650	0.00	0.00	N
ATOM	2536	CA	THR	162	-7.837	-4.786	0.259	0.00	0.00	C
ATOM	2537	C	THR	162	-9.052	-3.869	0.092	0.00	0.00	C
ATOM	2538	O	THR	162	-8.924	-2.796	-0.493	0.00	0.00	O
ATOM	2539	CB	THR	162	-7.970	-6.015	-0.665	0.00	0.00	C
ATOM	2540	CG2	THR	162	-8.105	-5.618	-2.141	0.00	0.00	C
ATOM	2541	OG1	THR	162	-6.865	-6.883	-0.525	0.00	0.00	O
ATOM	2542	H	THR	162	-7.893	-6.198	1.836	0.00	0.00	H
ATOM	2543	HA	THR	162	-6.941	-4.229	-0.007	0.00	0.00	H
ATOM	2544	HB	THR	162	-8.867	-6.564	-0.386	0.00	0.00	H
ATOM	2545	1HG	THR	162	-6.824	-7.181	0.387	0.00	0.00	H
ATOM	2546	1HG2	THR	162	-8.982	-4.991	-2.287	0.00	0.00	H
ATOM	2547	ZHG2	THR	162	-7.219	-5.075	-2.470	0.00	0.00	H
ATOM	2548	3HG2	THR	162	-8.236	-6.515	-2.746	0.00	0.00	H
ATOM	2549	N	ARG	163	-10.207	-4.285	0.632	0.00	0.00	N
ATOM	2550	CA	ARG	163	-11.478	-3.594	0.481	0.00	0.00	C
ATOM	2551	C	ARG	163	-11.537	-2.295	1.302	0.00	0.00	C
ATOM	2552	O	ARG	163	-12.300	-1.400	0.942	0.00	0.00	O
ATOM	2553	CB	ARG	163	-12.595	-4.579	0.859	0.00	0.00	C
ATOM	2554	CG	ARG	163	-13.985	-4.102	0.404	0.00	0.00	C
ATOM	2555	CD	ARG	163	-15.077	-5.147	0.674	0.00	0.00	C
ATOM	2556	NE	ARG	163	-14.844	-6.416	-0.038	0.00	0.00	N
ATOM	2557	CZ	ARG	163	-15.042	-6.641	-1.349	0.00	0.00	C
ATOM	2558	NH1	ARG	163	-14.754	-7.847	-1.853	0.00	0.00	N
ATOM	2559	NH2	ARG	163	-15.519	-5.691	-2.168	0.00	0.00	N
ATOM	2560	H	ARG	163	-10.222	-5.168	1.124	0.00	0.00	H
ATOM	2561	HA	ARG	163	-11.593	-3.341	-0.574	0.00	0.00	H
ATOM	2562	ZHB	ARG	163	-12.382	-5.534	0.378	0.00	0.00	H
ATOM	2563	3HB	ARG	163	-12.600	-4.732	1.939	0.00	0.00	H
ATOM	2564	ZHG	ARG	163	-14.248	-3.192	0.942	0.00	0.00	H
ATOM	2565	3HG	ARG	163	-13.957	-3.876	-0.663	0.00	0.00	H
ATOM	2566	ZHD	ARG	163	-15.115	-5.350	1.744	0.00	0.00	H
ATOM	2567	3HD	ARG	163	-16.042	-4.738	0.371	0.00	0.00	H
ATOM	2568	HE	ARG	163	-14.484	-7.177	0.520	0.00	0.00	H
ATOM	2569	1HH1	ARG	163	-14.393	-8.572	-1.249	0.00	0.00	H
ATOM	2570	2HH1	ARG	163	-14.896	-8.032	-2.835	0.00	0.00	H
ATOM	2571	1HH2	ARG	163	-15.739	-4.775	-1.803	0.00	0.00	H
ATOM	2572	2HH2	ARG	163	-15.654	-5.889	-3.148	0.00	0.00	H
ATOM	2573	N	PHE	164	-10.727	-2.173	2.367	0.00	0.00	N
ATOM	2574	CA	PHE	164	-10.697	-0.997	3.230	0.00	0.00	C
ATOM	2575	C	PHE	164	-9.818	0.123	2.657	0.00	0.00	C
ATOM	2576	O	PHE	164	-10.116	1.292	2.891	0.00	0.00	O
ATOM	2577	CB	PHE	164	-10.230	-1.399	4.634	0.00	0.00	C
ATOM	2578	CG	PHE	164	-10.426	-0.294	5.656	0.00	0.00	C
ATOM	2579	CD1	PHE	164	-9.359	0.556	6.011	0.00	0.00	C
ATOM	2580	CD2	PHE	164	-11.700	-0.086	6.218	0.00	0.00	C
ATOM	2581	CE1	PHE	164	-9.572	1.608	6.920	0.00	0.00	C
ATOM	2582	CE2	PHE	164	-11.912	0.969	7.123	0.00	0.00	C
ATOM	2583	CZ	PHE	164	-10.849	1.820	7.468	0.00	0.00	C
ATOM	2584	H	PHE	164	-10.111	-2.938	2.606	0.00	0.00	H
ATOM	2585	HA	PHE	164	-11.716	-0.618	3.317	0.00	0.00	H
ATOM	2586	ZHB	PHE	164	-10.799	-2.270	4.962	0.00	0.00	H
ATOM	2587	3HB	PHE	164	-9.177	-1.685	4.598	0.00	0.00	H
ATOM	2588	HD1	PHE	164	-8.379	0.409	5.582	0.00	0.00	H
ATOM	2589	HD2	PHE	164	-12.525	-0.730	5.947	0.00	0.00	H
ATOM	2590	HE1	PHE	164	-8.758	2.259	7.198	0.00	0.00	H
ATOM	2591	HE2	PHE	164	-12.891	1.128	7.548	0.00	0.00	H
ATOM	2592	HZ	PHE	164	-11.012	2.630	8.164	0.00	0.00	H
ATOM	2593	N	VAL	165	-8.766	-0.223	1.897	0.00	0.00	N
ATOM	2594	CA	VAL	165	-7.889	0.735	1.221	0.00	0.00	C
ATOM	2595	C	VAL	165	-8.518	1.182	-0.112	0.00	0.00	C

ATOM	2596	O	VAL	165	-8.295	2.316	-0.534	0.00	0.00	O
ATOM	2597	CB	VAL	165	-6.478	0.116	1.067	0.00	0.00	C
ATOM	2598	CG1	VAL	165	-5.537	0.996	0.226	0.00	0.00	C
ATOM	2599	CG2	VAL	165	-5.833	-0.080	2.453	0.00	0.00	C
ATOM	2600	H	VAL	165	-8.576	-1.203	1.746	0.00	0.00	H
ATOM	2601	HA	VAL	165	-7.794	1.621	1.850	0.00	0.00	H
ATOM	2602	HB	VAL	165	-6.564	-0.856	0.579	0.00	0.00	H
ATOM	2603	1HG1	VAL	165	-5.496	2.004	0.642	0.00	0.00	H
ATOM	2604	2HG1	VAL	165	-4.533	0.572	0.225	0.00	0.00	H
ATOM	2605	3HG1	VAL	165	-5.886	1.044	-0.806	0.00	0.00	H
ATOM	2606	1HG2	VAL	165	-5.743	0.881	2.958	0.00	0.00	H
ATOM	2607	2HG2	VAL	165	-6.434	-0.746	3.070	0.00	0.00	H
ATOM	2608	3HG2	VAL	165	-4.840	-0.516	2.347	0.00	0.00	H
ATOM	2609	N	VAL	166	-9.352	0.330	-0.727	0.00	0.00	N
ATOM	2610	CA	VAL	166	-10.201	0.670	-1.867	0.00	0.00	C
ATOM	2611	C	VAL	166	-11.274	1.680	-1.444	0.00	0.00	C
ATOM	2612	O	VAL	166	-11.540	2.622	-2.191	0.00	0.00	O
ATOM	2613	CB	VAL	166	-10.814	-0.635	-2.424	0.00	0.00	C
ATOM	2614	CG1	VAL	166	-12.066	-0.418	-3.290	0.00	0.00	C
ATOM	2615	CG2	VAL	166	-9.767	-1.386	-3.260	0.00	0.00	C
ATOM	2616	H	VAL	166	-9.484	-0.588	-0.326	0.00	0.00	H
ATOM	2617	HA	VAL	166	-9.589	1.131	-2.644	0.00	0.00	H
ATOM	2618	HB	VAL	166	-11.107	-1.272	-1.589	0.00	0.00	H
ATOM	2619	1HG1	VAL	166	-12.893	-0.066	-2.672	0.00	0.00	H
ATOM	2620	2HG1	VAL	166	-11.861	0.320	-4.063	0.00	0.00	H
ATOM	2621	3HG1	VAL	166	-12.367	-1.356	-3.757	0.00	0.00	H
ATOM	2622	1HG2	VAL	166	-9.558	-0.834	-4.173	0.00	0.00	H
ATOM	2623	2HG2	VAL	166	-8.838	-1.504	-2.705	0.00	0.00	H
ATOM	2624	3HG2	VAL	166	-10.150	-2.373	-3.513	0.00	0.00	H
ATOM	2625	N	ASP	167	-11.861	1.501	-0.250	0.00	0.00	N
ATOM	2626	CA	ASP	167	-12.912	2.361	0.273	0.00	0.00	C
ATOM	2627	C	ASP	167	-12.349	3.695	0.777	0.00	0.00	C
ATOM	2628	O	ASP	167	-13.022	4.714	0.638	0.00	0.00	O
ATOM	2629	CB	ASP	167	-13.658	1.612	1.389	0.00	0.00	C
ATOM	2630	CG	ASP	167	-14.848	2.411	1.920	0.00	0.00	C
ATOM	2631	OD1	ASP	167	-15.927	2.307	1.297	0.00	0.00	O
ATOM	2632	OD2	ASP	167	-14.660	3.116	2.935	0.00	0.00	O
ATOM	2633	H	ASP	167	-11.584	0.713	0.319	0.00	0.00	H
ATOM	2634	HA	ASP	167	-13.622	2.564	-0.530	0.00	0.00	H
ATOM	2635	2HB	ASP	167	-14.026	0.665	0.994	0.00	0.00	H
ATOM	2636	3HB	ASP	167	-12.970	1.396	2.207	0.00	0.00	H
ATOM	2637	N	PHE	168	-11.127	3.705	1.333	0.00	0.00	N
ATOM	2638	CA	PHE	168	-10.526	4.915	1.876	0.00	0.00	C
ATOM	2639	C	PHE	168	-10.069	5.861	0.762	0.00	0.00	C
ATOM	2640	O	PHE	168	-10.217	7.072	0.913	0.00	0.00	O
ATOM	2641	CB	PHE	168	-9.364	4.574	2.817	0.00	0.00	C
ATOM	2642	CG	PHE	168	-8.810	5.818	3.486	0.00	0.00	C
ATOM	2643	CD1	PHE	168	-9.488	6.376	4.587	0.00	0.00	C
ATOM	2644	CD2	PHE	168	-7.694	6.485	2.942	0.00	0.00	C
ATOM	2645	CE1	PHE	168	-9.068	7.603	5.127	0.00	0.00	C
ATOM	2646	CE2	PHE	168	-7.277	7.714	3.482	0.00	0.00	C
ATOM	2647	CZ	PHE	168	-7.971	8.277	4.566	0.00	0.00	C
ATOM	2648	H	PHE	168	-10.606	2.842	1.413	0.00	0.00	H
ATOM	2649	HA	PHE	168	-11.287	5.429	2.466	0.00	0.00	H
ATOM	2650	2HB	PHE	168	-9.719	3.891	3.591	0.00	0.00	H
ATOM	2651	3HB	PHE	168	-8.574	4.073	2.257	0.00	0.00	H
ATOM	2652	HD1	PHE	168	-10.354	5.879	5.001	0.00	0.00	H
ATOM	2653	HD2	PHE	168	-7.180	6.073	2.085	0.00	0.00	H
ATOM	2654	HE1	PHE	168	-9.604	8.037	5.957	0.00	0.00	H
ATOM	2655	HE2	PHE	168	-6.429	8.231	3.058	0.00	0.00	H
ATOM	2656	HZ	PHE	168	-7.668	9.232	4.961	0.00	0.00	H
ATOM	2657	N	MET	169	-9.549	5.325	-0.353	0.00	0.00	N
ATOM	2658	CA	MET	169	-9.113	6.126	-1.491	0.00	0.00	C
ATOM	2659	C	MET	169	-10.307	6.647	-2.304	0.00	0.00	C
ATOM	2660	O	MET	169	-10.213	7.728	-2.883	0.00	0.00	O
ATOM	2661	CB	MET	169	-8.132	5.315	-2.354	0.00	0.00	C
ATOM	2662	CG	MET	169	-6.793	5.099	-1.631	0.00	0.00	C
ATOM	2663	SD	MET	169	-5.558	4.199	-2.600	0.00	0.00	S
ATOM	2664	CE	MET	169	-4.135	4.302	-1.485	0.00	0.00	C
ATOM	2665	H	MET	169	-9.459	4.321	-0.426	0.00	0.00	H
ATOM	2666	HA	MET	169	-8.582	6.996	-1.105	0.00	0.00	H
ATOM	2667	2HB	MET	169	-8.574	4.351	-2.609	0.00	0.00	H
ATOM	2668	3HB	MET	169	-7.936	5.860	-3.278	0.00	0.00	H
ATOM	2669	2HG	MET	169	-6.375	6.071	-1.375	0.00	0.00	H
ATOM	2670	3HG	MET	169	-6.966	4.555	-0.703	0.00	0.00	H
ATOM	2671	1HE	MET	169	-4.408	3.915	-0.503	0.00	0.00	H
ATOM	2672	2HE	MET	169	-3.311	3.715	-1.890	0.00	0.00	H
ATOM	2673	3HE	MET	169	-3.822	5.342	-1.394	0.00	0.00	H
ATOM	2674	N	LEU	170	-11.440	5.928	-2.292	0.00	0.00	N
ATOM	2675	CA	LEU	170	-12.693	6.358	-2.908	0.00	0.00	C
ATOM	2676	C	LEU	170	-13.350	7.505	-2.120	0.00	0.00	C
ATOM	2677	O	LEU	170	-14.042	8.326	-2.722	0.00	0.00	O
ATOM	2678	CB	LEU	170	-13.620	5.130	-2.998	0.00	0.00	C
ATOM	2679	CG	LEU	170	-15.004	5.378	-3.631	0.00	0.00	C
ATOM	2680	CD1	LEU	170	-14.918	5.903	-5.072	0.00	0.00	C
ATOM	2681	CD2	LEU	170	-15.812	4.072	-3.612	0.00	0.00	C
ATOM	2682	H	LEU	170	-11.457	5.051	-1.790	0.00	0.00	H
ATOM	2683	HA	LEU	170	-12.471	6.707	-3.916	0.00	0.00	H
ATOM	2684	2HB	LEU	170	-13.110	4.360	-3.576	0.00	0.00	H
ATOM	2685	3HB	LEU	170	-13.773	4.742	-1.990	0.00	0.00	H
ATOM	2686	HG	LEU	170	-15.543	6.111	-3.032	0.00	0.00	H
ATOM	2687	1HD1	LEU	170	-14.415	5.174	-5.705	0.00	0.00	H
ATOM	2688	2HD1	LEU	170	-15.922	6.078	-5.459	0.00	0.00	H
ATOM	2689	3HD1	LEU	170	-14.373	6.846	-5.102	0.00	0.00	H
ATOM	2690	1HD2	LEU	170	-15.315	3.313	-4.216	0.00	0.00	H
ATOM	2691	2HD2	LEU	170	-15.906	3.709	-2.588	0.00	0.00	H
ATOM	2692	3HD2	LEU	170	-16.812	4.250	-4.012	0.00	0.00	H
ATOM	2693	N	HIP	171	-13.123	7.571	-0.796	0.00	0.00	N
ATOM	2694	CA	HIP	171	-13.768	8.510	0.123	0.00	0.00	C
ATOM	2695	C	HIP	171	-12.764	9.463	0.798	0.00	0.00	C
ATOM	2696	O	HIP	171	-13.046	9.998	1.871	0.00	0.00	O
ATOM	2697	CB	HIP	171	-14.648	7.733	1.117	0.00	0.00	C
ATOM	2698	CG	HIP	171	-15.715	6.895	0.451	0.00	0.00	C
ATOM	2699	CD2	HIP	171	-16.638	7.334	-0.460	0.00	0.00	C
ATOM	2700	ND1	HIP	171	-15.930	5.542	0.641	0.00	0.00	N

ATOM	2701	CE1	HIP	171	-16.956	5.168	-0.144	0.00	0.00	C
ATOM	2702	NE2	HIP	171	-17.402	6.242	-0.820	0.00	0.00	N
ATOM	2703	H	HIP	171	-12.522	6.874	-0.378	0.00	0.00	H
ATOM	2704	HA	HIP	171	-14.435	9.148	-0.455	0.00	0.00	H
ATOM	2705	ZHB	HIP	171	-14.014	7.089	1.729	0.00	0.00	H
ATOM	2706	3HB	HIP	171	-15.149	8.440	1.780	0.00	0.00	H
ATOM	2707	HD1	HIP	171	-15.399	4.936	1.252	0.00	0.00	H
ATOM	2708	HD2	HIP	171	-16.743	8.341	-0.836	0.00	0.00	H
ATOM	2709	HE1	HIP	171	-17.353	4.167	-0.223	0.00	0.00	H
ATOM	2710	HE2	HIP	171	-18.162	6.248	-1.486	0.00	0.00	H
ATOM	2711	N	HIP	172	-11.606	9.692	0.157	0.00	0.00	N
ATOM	2712	CA	HIP	172	-10.633	10.722	0.527	0.00	0.00	C
ATOM	2713	C	HIP	172	-10.044	11.404	-0.728	0.00	0.00	C
ATOM	2714	O	HIP	172	-9.058	12.133	-0.626	0.00	0.00	O
ATOM	2715	CB	HIP	172	-9.566	10.124	1.464	0.00	0.00	C
ATOM	2716	CG	HIP	172	-8.835	11.150	2.297	0.00	0.00	C
ATOM	2717	CD2	HIP	172	-7.585	11.655	2.064	0.00	0.00	C
ATOM	2718	ND1	HIP	172	-9.323	11.755	3.441	0.00	0.00	N
ATOM	2719	CE1	HIP	172	-8.392	12.618	3.885	0.00	0.00	C
ATOM	2720	NE2	HIP	172	-7.327	12.569	3.065	0.00	0.00	N
ATOM	2721	H	HIP	172	-11.428	9.197	-0.704	0.00	0.00	H
ATOM	2722	HA	HIP	172	-11.167	11.494	1.082	0.00	0.00	H
ATOM	2723	ZHB	HIP	172	-10.053	9.442	2.162	0.00	0.00	H
ATOM	2724	3HB	HIP	172	-8.851	9.545	0.880	0.00	0.00	H
ATOM	2725	HD1	HIP	172	-10.226	11.588	3.862	0.00	0.00	H
ATOM	2726	HD2	HIP	172	-6.930	11.405	1.243	0.00	0.00	H
ATOM	2727	HE1	HIP	172	-8.484	13.254	4.752	0.00	0.00	H
ATOM	2728	HE2	HIP	172	-6.484	13.119	3.160	0.00	0.00	H
ATOM	2729	N	CYS	173	-10.669	11.187	-1.902	0.00	0.00	N
ATOM	2730	CA	CYS	173	-10.313	11.769	-3.198	0.00	0.00	C
ATOM	2731	C	CYS	173	-8.885	11.435	-3.665	0.00	0.00	C
ATOM	2732	O	CYS	173	-8.283	12.204	-4.415	0.00	0.00	O
ATOM	2733	CB	CYS	173	-10.637	13.273	-3.228	0.00	0.00	C
ATOM	2734	SG	CYS	173	-12.369	13.568	-2.778	0.00	0.00	S
ATOM	2735	H	CYS	173	-11.476	10.582	-1.901	0.00	0.00	H
ATOM	2736	HA	CYS	173	-10.978	11.295	-3.922	0.00	0.00	H
ATOM	2737	ZHB	CYS	173	-9.989	13.804	-2.530	0.00	0.00	H
ATOM	2738	3HB	CYS	173	-10.467	13.663	-4.232	0.00	0.00	H
ATOM	2739	HG	CYS	173	-12.324	14.897	-2.911	0.00	0.00	H
ATOM	2740	N	ILE	174	-8.345	10.287	-3.225	0.00	0.00	N
ATOM	2741	CA	ILE	174	-7.031	9.788	-3.623	0.00	0.00	C
ATOM	2742	C	ILE	174	-7.169	9.051	-4.963	0.00	0.00	C
ATOM	2743	O	ILE	174	-6.344	9.257	-5.851	0.00	0.00	O
ATOM	2744	CB	ILE	174	-6.446	8.879	-2.517	0.00	0.00	C
ATOM	2745	CG1	ILE	174	-6.362	9.604	-1.152	0.00	0.00	C
ATOM	2746	CG2	ILE	174	-5.056	8.358	-2.932	0.00	0.00	C
ATOM	2747	CD1	ILE	174	-6.081	8.665	0.024	0.00	0.00	C
ATOM	2748	H	ILE	174	-8.886	9.702	-2.605	0.00	0.00	H
ATOM	2749	HA	ILE	174	-6.358	10.636	-3.758	0.00	0.00	H
ATOM	2750	HB	ILE	174	-7.110	8.026	-2.409	0.00	0.00	H
ATOM	2751	ZHG1	ILE	174	-5.590	10.374	-1.191	0.00	0.00	H
ATOM	2752	3HG1	ILE	174	-7.309	10.093	-0.934	0.00	0.00	H
ATOM	2753	1HG2	ILE	174	-4.647	7.694	-2.172	0.00	0.00	H
ATOM	2754	ZHG2	ILE	174	-5.122	7.786	-3.857	0.00	0.00	H
ATOM	2755	3HG2	ILE	174	-4.377	9.199	-3.075	0.00	0.00	H
ATOM	2756	1HD1	ILE	174	-6.145	9.227	0.952	0.00	0.00	H
ATOM	2757	ZHD1	ILE	174	-6.823	7.867	0.054	0.00	0.00	H
ATOM	2758	3HD1	ILE	174	-5.085	8.237	-0.059	0.00	0.00	H
ATOM	2759	N	ALA	175	-8.233	8.249	-5.128	0.00	0.00	N
ATOM	2760	CA	ALA	175	-8.600	7.617	-6.391	0.00	0.00	C
ATOM	2761	C	ALA	175	-9.116	8.643	-7.411	0.00	0.00	C
ATOM	2762	O	ALA	175	-9.062	8.373	-8.610	0.00	0.00	O
ATOM	2763	CB	ALA	175	-9.658	6.540	-6.126	0.00	0.00	C
ATOM	2764	H	ALA	175	-8.871	8.124	-4.356	0.00	0.00	H
ATOM	2765	HA	ALA	175	-7.714	7.132	-6.805	0.00	0.00	H
ATOM	2766	1HB	ALA	175	-9.267	5.798	-5.429	0.00	0.00	H
ATOM	2767	ZHB	ALA	175	-10.557	6.992	-5.706	0.00	0.00	H
ATOM	2768	3HB	ALA	175	-9.916	6.041	-7.060	0.00	0.00	H
ATOM	2769	N	ARG	176	-9.576	9.820	-6.954	0.00	0.00	N
ATOM	2770	CA	ARG	176	-9.960	10.937	-7.811	0.00	0.00	C
ATOM	2771	C	ARG	176	-8.720	11.651	-8.364	0.00	0.00	C
ATOM	2772	O	ARG	176	-8.734	12.073	-9.518	0.00	0.00	O
ATOM	2773	CB	ARG	176	-10.850	11.898	-7.004	0.00	0.00	C
ATOM	2774	CG	ARG	176	-11.543	12.939	-7.897	0.00	0.00	C
ATOM	2775	CD	ARG	176	-12.318	13.981	-7.082	0.00	0.00	C
ATOM	2776	NE	ARG	176	-13.442	13.391	-6.342	0.00	0.00	N
ATOM	2777	CZ	ARG	176	-14.329	14.082	-5.603	0.00	0.00	C
ATOM	2778	NH1	ARG	176	-14.257	15.416	-5.485	0.00	0.00	N
ATOM	2779	NH2	ARG	176	-15.305	13.424	-4.966	0.00	0.00	N
ATOM	2780	H	ARG	176	-9.597	9.981	-5.956	0.00	0.00	H
ATOM	2781	HA	ARG	176	-10.540	10.545	-8.648	0.00	0.00	H
ATOM	2782	ZHB	ARG	176	-11.612	11.322	-6.478	0.00	0.00	H
ATOM	2783	3HB	ARG	176	-10.237	12.413	-6.265	0.00	0.00	H
ATOM	2784	ZHG	ARG	176	-10.794	13.470	-8.485	0.00	0.00	H
ATOM	2785	3HG	ARG	176	-12.226	12.434	-8.584	0.00	0.00	H
ATOM	2786	ZHD	ARG	176	-11.638	14.463	-6.379	0.00	0.00	H
ATOM	2787	3HD	ARG	176	-12.705	14.736	-7.766	0.00	0.00	H
ATOM	2788	HE	ARG	176	-13.548	12.387	-6.398	0.00	0.00	H
ATOM	2789	1HH1	ARG	176	-13.525	15.925	-5.960	0.00	0.00	H
ATOM	2790	ZHH1	ARG	176	-14.935	15.910	-4.925	0.00	0.00	H
ATOM	2791	1HH2	ARG	176	-15.374	12.420	-5.051	0.00	0.00	H
ATOM	2792	ZHH2	ARG	176	-15.977	13.931	-4.409	0.00	0.00	H
ATOM	2793	N	TRP	177	-7.646	11.751	-7.565	0.00	0.00	N
ATOM	2794	CA	TRP	177	-6.380	12.363	-7.960	0.00	0.00	C
ATOM	2795	C	TRP	177	-5.593	11.471	-8.935	0.00	0.00	C
ATOM	2796	O	TRP	177	-4.794	11.986	-9.715	0.00	0.00	O
ATOM	2797	CB	TRP	177	-5.569	12.656	-6.690	0.00	0.00	C
ATOM	2798	CG	TRP	177	-4.310	13.446	-6.885	0.00	0.00	C
ATOM	2799	CD1	TRP	177	-4.228	14.794	-6.882	0.00	0.00	C
ATOM	2800	CD2	TRP	177	-2.945	12.971	-7.110	0.00	0.00	C
ATOM	2801	CE2	TRP	177	-2.085	14.104	-7.227	0.00	0.00	C
ATOM	2802	CE3	TRP	177	-2.344	11.699	-7.235	0.00	0.00	C
ATOM	2803	NE1	TRP	177	-2.923	15.187	-7.077	0.00	0.00	N
ATOM	2804	CZ2	TRP	177	-0.708	13.981	-7.468	0.00	0.00	C
ATOM	2805	CZ3	TRP	177	-0.966	11.564	-7.487	0.00	0.00	C

ATOM	2806	CH2	TRP	177	-0.150	12.702	-7.612	0.00	0.00	C
ATOM	2807	H	TRP	177	-7.699	11.373	-6.629	0.00	0.00	H
ATOM	2808	HA	TRP	177	-6.596	13.311	-8.453	0.00	0.00	H
ATOM	2809	2HB	TRP	177	-6.204	13.213	-5.999	0.00	0.00	H
ATOM	2810	3HB	TRP	177	-5.309	11.713	-6.207	0.00	0.00	H
ATOM	2811	HD1	TRP	177	-5.061	15.467	-6.740	0.00	0.00	H
ATOM	2812	HE1	TRP	177	-2.644	16.158	-7.108	0.00	0.00	H
ATOM	2813	HE3	TRP	177	-2.954	10.814	-7.147	0.00	0.00	H
ATOM	2814	HZ2	TRP	177	-0.090	14.861	-7.560	0.00	0.00	H
ATOM	2815	HZ3	TRP	177	-0.533	10.581	-7.591	0.00	0.00	H
ATOM	2816	HH2	TRP	177	0.904	12.594	-7.818	0.00	0.00	H
ATOM	2817	N	ILE	178	-5.840	10.153	-8.913	0.00	0.00	N
ATOM	2818	CA	ILE	178	-5.219	9.169	-9.797	0.00	0.00	C
ATOM	2819	C	ILE	178	-6.060	9.010	-11.082	0.00	0.00	C
ATOM	2820	O	ILE	178	-5.503	8.644	-12.117	0.00	0.00	O
ATOM	2821	CB	ILE	178	-5.006	7.853	-9.005	0.00	0.00	C
ATOM	2822	CG1	ILE	178	-4.020	8.060	-7.831	0.00	0.00	C
ATOM	2823	CG2	ILE	178	-4.482	6.718	-9.903	0.00	0.00	C
ATOM	2824	CD1	ILE	178	-4.045	6.914	-6.813	0.00	0.00	C
ATOM	2825	H	ILE	178	-6.513	9.799	-8.248	0.00	0.00	H
ATOM	2826	HA	ILE	178	-4.235	9.537	-10.090	0.00	0.00	H
ATOM	2827	HB	ILE	178	-5.968	7.550	-8.593	0.00	0.00	H
ATOM	2828	2HG1	ILE	178	-3.005	8.184	-8.211	0.00	0.00	H
ATOM	2829	3HG1	ILE	178	-4.275	8.967	-7.288	0.00	0.00	H
ATOM	2830	1HG2	ILE	178	-5.212	6.478	-10.673	0.00	0.00	H
ATOM	2831	2HG2	ILE	178	-3.545	7.016	-10.374	0.00	0.00	H
ATOM	2832	3HG2	ILE	178	-4.315	5.816	-9.321	0.00	0.00	H
ATOM	2833	1HD1	ILE	178	-5.073	6.643	-6.571	0.00	0.00	H
ATOM	2834	2HD1	ILE	178	-3.517	6.048	-7.208	0.00	0.00	H
ATOM	2835	3HD1	ILE	178	-3.552	7.240	-5.898	0.00	0.00	H
ATOM	2836	N	ALA	179	-7.364	9.341	-11.045	0.00	0.00	N
ATOM	2837	CA	ALA	179	-8.243	9.394	-12.215	0.00	0.00	C
ATOM	2838	C	ALA	179	-8.005	10.644	-13.073	0.00	0.00	C
ATOM	2839	O	ALA	179	-8.294	10.619	-14.269	0.00	0.00	O
ATOM	2840	CB	ALA	179	-9.702	9.342	-11.751	0.00	0.00	C
ATOM	2841	H	ALA	179	-7.763	9.635	-10.166	0.00	0.00	H
ATOM	2842	HA	ALA	179	-8.049	8.522	-12.839	0.00	0.00	H
ATOM	2843	1HB	ALA	179	-9.880	8.432	-11.182	0.00	0.00	H
ATOM	2844	2HB	ALA	179	-9.929	10.206	-11.126	0.00	0.00	H
ATOM	2845	3HB	ALA	179	-10.357	9.352	-12.619	0.00	0.00	H
ATOM	2846	N	GLN	180	-7.436	11.705	-12.478	0.00	0.00	N
ATOM	2847	CA	GLN	180	-6.906	12.875	-13.177	0.00	0.00	C
ATOM	2848	C	GLN	180	-5.581	12.552	-13.894	0.00	0.00	C
ATOM	2849	O	GLN	180	-5.069	13.395	-14.630	0.00	0.00	O
ATOM	2850	CB	GLN	180	-6.691	13.998	-12.147	0.00	0.00	C
ATOM	2851	CG	GLN	180	-8.008	14.587	-11.615	0.00	0.00	C
ATOM	2852	CD	GLN	180	-7.835	15.405	-10.328	0.00	0.00	C
ATOM	2853	NE2	GLN	180	-8.958	15.761	-9.697	0.00	0.00	N
ATOM	2854	OE1	GLN	180	-6.723	15.711	-9.901	0.00	0.00	O
ATOM	2855	H	GLN	180	-7.250	11.654	-11.487	0.00	0.00	H
ATOM	2856	HA	GLN	180	-7.629	13.208	-13.922	0.00	0.00	H
ATOM	2857	2HB	GLN	180	-6.110	13.595	-11.318	0.00	0.00	H
ATOM	2858	3HB	GLN	180	-6.117	14.807	-12.601	0.00	0.00	H
ATOM	2859	2HG	GLN	180	-8.448	15.225	-12.383	0.00	0.00	H
ATOM	2860	3HG	GLN	180	-8.719	13.786	-11.418	0.00	0.00	H
ATOM	2861	1HE2	GLN	180	-8.906	16.300	-8.845	0.00	0.00	H
ATOM	2862	2HE2	GLN	180	-9.855	15.491	-10.074	0.00	0.00	H
ATOM	2863	N	ARG	181	-5.024	11.351	-13.661	0.00	0.00	N
ATOM	2864	CA	ARG	181	-3.701	10.911	-14.095	0.00	0.00	C
ATOM	2865	C	ARG	181	-3.778	9.541	-14.794	0.00	0.00	C
ATOM	2866	O	ARG	181	-2.818	8.776	-14.744	0.00	0.00	O
ATOM	2867	CB	ARG	181	-2.739	10.938	-12.889	0.00	0.00	C
ATOM	2868	CG	ARG	181	-2.444	12.379	-12.447	0.00	0.00	C
ATOM	2869	CD	ARG	181	-1.674	12.433	-11.126	0.00	0.00	C
ATOM	2870	NE	ARG	181	-1.247	13.806	-10.810	0.00	0.00	N
ATOM	2871	CZ	ARG	181	-2.041	14.838	-10.469	0.00	0.00	C
ATOM	2872	NH1	ARG	181	-1.486	16.034	-10.241	0.00	0.00	N
ATOM	2873	NH2	ARG	181	-3.371	14.708	-10.345	0.00	0.00	N
ATOM	2874	H	ARG	181	-5.522	10.710	-13.061	0.00	0.00	H
ATOM	2875	HA	ARG	181	-3.325	11.612	-14.840	0.00	0.00	H
ATOM	2876	2HB	ARG	181	-3.180	10.380	-12.061	0.00	0.00	H
ATOM	2877	3HB	ARG	181	-1.791	10.471	-13.158	0.00	0.00	H
ATOM	2878	2HG	ARG	181	-1.860	12.871	-13.227	0.00	0.00	H
ATOM	2879	3HG	ARG	181	-3.378	12.923	-12.319	0.00	0.00	H
ATOM	2880	2HD	ARG	181	-2.296	12.048	-10.319	0.00	0.00	H
ATOM	2881	3HD	ARG	181	-0.789	11.802	-11.205	0.00	0.00	H
ATOM	2882	HE	ARG	181	-0.255	13.984	-10.872	0.00	0.00	H
ATOM	2883	1HH1	ARG	181	-0.486	16.151	-10.327	0.00	0.00	H
ATOM	2884	2HH1	ARG	181	-2.066	16.819	-9.982	0.00	0.00	H
ATOM	2885	1HH2	ARG	181	-3.807	13.811	-10.505	0.00	0.00	H
ATOM	2886	2HH2	ARG	181	-3.936	15.504	-10.083	0.00	0.00	H
ATOM	2887	N	GLY	182	-4.912	9.235	-15.452	0.00	0.00	N
ATOM	2888	CA	GLY	182	-5.064	8.095	-16.353	0.00	0.00	C
ATOM	2889	C	GLY	182	-5.020	6.734	-15.653	0.00	0.00	C
ATOM	2890	O	GLY	182	-4.463	5.787	-16.210	0.00	0.00	O
ATOM	2891	H	GLY	182	-5.677	9.894	-15.427	0.00	0.00	H
ATOM	2892	2HA	GLY	182	-6.025	8.190	-16.856	0.00	0.00	H
ATOM	2893	3HA	GLY	182	-4.279	8.136	-17.109	0.00	0.00	H
ATOM	2894	N	GLY	183	-5.553	6.649	-14.425	0.00	0.00	N
ATOM	2895	CA	GLY	183	-5.433	5.478	-13.565	0.00	0.00	C
ATOM	2896	C	GLY	183	-4.020	5.337	-12.994	0.00	0.00	C
ATOM	2897	O	GLY	183	-3.201	6.252	-13.093	0.00	0.00	O
ATOM	2898	H	GLY	183	-5.996	7.465	-14.026	0.00	0.00	H
ATOM	2899	2HA	GLY	183	-6.140	5.569	-12.740	0.00	0.00	H
ATOM	2900	3HA	GLY	183	-5.686	4.581	-14.133	0.00	0.00	H
ATOM	2901	N	TRP	184	-3.741	4.175	-12.390	0.00	0.00	N
ATOM	2902	CA	TRP	184	-2.455	3.878	-11.761	0.00	0.00	C
ATOM	2903	C	TRP	184	-1.336	3.614	-12.786	0.00	0.00	C
ATOM	2904	O	TRP	184	-0.165	3.659	-12.411	0.00	0.00	O
ATOM	2905	CB	TRP	184	-2.617	2.687	-10.807	0.00	0.00	C
ATOM	2906	CG	TRP	184	-3.468	2.910	-9.591	0.00	0.00	C
ATOM	2907	CD1	TRP	184	-4.814	3.015	-9.573	0.00	0.00	C
ATOM	2908	CD2	TRP	184	-3.049	3.045	-8.196	0.00	0.00	C
ATOM	2909	CE2	TRP	184	-4.210	3.231	-7.388	0.00	0.00	C
ATOM	2910	CE3	TRP	184	-1.803	3.028	-7.531	0.00	0.00	C

ATOM	2911	NE1	TRP	184	-5.259	3.202	-8.283	0.00	0.00	N
ATOM	2912	CZ2	TRP	184	-4.133	3.401	-5.996	0.00	0.00	C
ATOM	2913	CZ3	TRP	184	-1.717	3.186	-6.135	0.00	0.00	C
ATOM	2914	CH2	TRP	184	-2.878	3.378	-5.369	0.00	0.00	C
ATOM	2915	H	TRP	184	-4.454	3.461	-12.343	0.00	0.00	H
ATOM	2916	HA	TRP	184	-2.162	4.741	-11.162	0.00	0.00	H
ATOM	2917	ZHB	TRP	184	-3.015	1.838	-11.365	0.00	0.00	H
ATOM	2918	3HB	TRP	184	-1.628	2.406	-10.448	0.00	0.00	H
ATOM	2919	HD1	TRP	184	-5.448	2.968	-10.445	0.00	0.00	H
ATOM	2920	HE1	TRP	184	-6.238	3.302	-8.051	0.00	0.00	H
ATOM	2921	HE3	TRP	184	-0.901	2.872	-8.100	0.00	0.00	H
ATOM	2922	HZ2	TRP	184	-5.027	3.557	-5.415	0.00	0.00	H
ATOM	2923	HZ3	TRP	184	-0.751	3.162	-5.651	0.00	0.00	H
ATOM	2924	HH2	TRP	184	-2.804	3.510	-4.300	0.00	0.00	H
ATOM	2925	N	VAL	185	-1.679	3.367	-14.062	0.00	0.00	N
ATOM	2926	CA	VAL	185	-0.729	3.095	-15.142	0.00	0.00	C
ATOM	2927	C	VAL	185	0.044	4.370	-15.505	0.00	0.00	C
ATOM	2928	O	VAL	185	1.270	4.324	-15.601	0.00	0.00	O
ATOM	2929	CB	VAL	185	-1.478	2.511	-16.367	0.00	0.00	C
ATOM	2930	CG1	VAL	185	-0.546	2.318	-17.576	0.00	0.00	C
ATOM	2931	CG2	VAL	185	-2.127	1.152	-16.054	0.00	0.00	C
ATOM	2932	H	VAL	185	-2.660	3.354	-14.306	0.00	0.00	H
ATOM	2933	HA	VAL	185	-0.008	2.357	-14.794	0.00	0.00	H
ATOM	2934	HB	VAL	185	-2.269	3.207	-16.654	0.00	0.00	H
ATOM	2935	1HG1	VAL	185	0.296	1.681	-17.303	0.00	0.00	H
ATOM	2936	2HG1	VAL	185	-0.172	3.280	-17.926	0.00	0.00	H
ATOM	2937	3HG1	VAL	185	-1.095	1.851	-18.395	0.00	0.00	H
ATOM	2938	1HG2	VAL	185	-1.362	0.394	-15.887	0.00	0.00	H
ATOM	2939	2HG2	VAL	185	-2.751	0.842	-16.893	0.00	0.00	H
ATOM	2940	3HG2	VAL	185	-2.753	1.227	-15.168	0.00	0.00	H
ATOM	2941	N	ALA	186	-0.668	5.492	-15.689	0.00	0.00	N
ATOM	2942	CA	ALA	186	-0.089	6.771	-16.087	0.00	0.00	C
ATOM	2943	C	ALA	186	0.207	7.694	-14.892	0.00	0.00	C
ATOM	2944	O	ALA	186	0.824	8.742	-15.085	0.00	0.00	O
ATOM	2945	CB	ALA	186	-0.985	7.417	-17.149	0.00	0.00	C
ATOM	2946	H	ALA	186	-1.672	5.459	-15.578	0.00	0.00	H
ATOM	2947	HA	ALA	186	0.864	6.569	-16.573	0.00	0.00	H
ATOM	2948	1HB	ALA	186	-1.998	7.529	-16.772	0.00	0.00	H
ATOM	2949	2HB	ALA	186	-0.588	8.394	-17.428	0.00	0.00	H
ATOM	2950	3HB	ALA	186	-1.012	6.782	-18.035	0.00	0.00	H
ATOM	2951	N	ALA	187	-0.176	7.296	-13.667	0.00	0.00	N
ATOM	2952	CA	ALA	187	0.266	7.931	-12.427	0.00	0.00	C
ATOM	2953	C	ALA	187	1.609	7.351	-11.952	0.00	0.00	C
ATOM	2954	O	ALA	187	2.340	8.039	-11.242	0.00	0.00	O
ATOM	2955	CB	ALA	187	-0.819	7.775	-11.359	0.00	0.00	C
ATOM	2956	H	ALA	187	-0.698	6.436	-13.575	0.00	0.00	H
ATOM	2957	HA	ALA	187	0.399	8.998	-12.606	0.00	0.00	H
ATOM	2958	1HB	ALA	187	-0.520	8.305	-10.454	0.00	0.00	H
ATOM	2959	2HB	ALA	187	-1.755	8.199	-11.719	0.00	0.00	H
ATOM	2960	3HB	ALA	187	-0.963	6.720	-11.126	0.00	0.00	H
ATOM	2961	N	LEU	188	1.950	6.123	-12.381	0.00	0.00	N
ATOM	2962	CA	LEU	188	3.281	5.539	-12.239	0.00	0.00	C
ATOM	2963	C	LEU	188	4.238	6.122	-13.290	0.00	0.00	C
ATOM	2964	O	LEU	188	5.421	6.293	-12.997	0.00	0.00	O
ATOM	2965	CB	LEU	188	3.162	4.007	-12.355	0.00	0.00	C
ATOM	2966	CG	LEU	188	4.503	3.241	-12.310	0.00	0.00	C
ATOM	2967	CD1	LEU	188	5.276	3.454	-10.998	0.00	0.00	C
ATOM	2968	CD2	LEU	188	4.247	1.743	-12.518	0.00	0.00	C
ATOM	2969	H	LEU	188	1.289	5.608	-12.945	0.00	0.00	H
ATOM	2970	HA	LEU	188	3.667	5.785	-11.251	0.00	0.00	H
ATOM	2971	ZHB	LEU	188	2.525	3.645	-11.546	0.00	0.00	H
ATOM	2972	3HB	LEU	188	2.667	3.772	-13.299	0.00	0.00	H
ATOM	2973	HG	LEU	188	5.129	3.578	-13.136	0.00	0.00	H
ATOM	2974	1HD1	LEU	188	4.669	3.143	-10.150	0.00	0.00	H
ATOM	2975	2HD1	LEU	188	5.543	4.503	-10.880	0.00	0.00	H
ATOM	2976	3HD1	LEU	188	6.194	2.865	-11.012	0.00	0.00	H
ATOM	2977	1HD2	LEU	188	3.703	1.584	-13.449	0.00	0.00	H
ATOM	2978	2HD2	LEU	188	3.673	1.335	-11.687	0.00	0.00	H
ATOM	2979	3HD2	LEU	188	5.201	1.223	-12.586	0.00	0.00	H
ATOM	2980	N	ASN	189	3.723	6.468	-14.482	0.00	0.00	N
ATOM	2981	CA	ASN	189	4.485	7.142	-15.531	0.00	0.00	C
ATOM	2982	C	ASN	189	4.827	8.590	-15.133	0.00	0.00	C
ATOM	2983	O	ASN	189	5.809	9.139	-15.632	0.00	0.00	O
ATOM	2984	CB	ASN	189	3.669	7.092	-16.834	0.00	0.00	C
ATOM	2985	CG	ASN	189	4.455	7.470	-18.094	0.00	0.00	C
ATOM	2986	ND2	ASN	189	3.732	7.802	-19.167	0.00	0.00	N
ATOM	2987	OD1	ASN	189	5.685	7.446	-18.119	0.00	0.00	O
ATOM	2988	H	ASN	189	2.744	6.305	-14.660	0.00	0.00	H
ATOM	2989	HA	ASN	189	5.413	6.587	-15.678	0.00	0.00	H
ATOM	2990	ZHB	ASN	189	3.283	6.082	-16.977	0.00	0.00	H
ATOM	2991	3HB	ASN	189	2.816	7.765	-16.738	0.00	0.00	H
ATOM	2992	1HD2	ASN	189	4.196	8.052	-20.028	0.00	0.00	H
ATOM	2993	2HD2	ASN	189	2.724	7.803	-19.114	0.00	0.00	H
ATOM	2994	N	LEU	190	4.053	9.184	-14.208	0.00	0.00	N
ATOM	2995	CA	LEU	190	4.328	10.478	-13.603	0.00	0.00	C
ATOM	2996	C	LEU	190	5.362	10.305	-12.488	0.00	0.00	C
ATOM	2997	O	LEU	190	5.147	9.570	-11.525	0.00	0.00	O
ATOM	2998	CB	LEU	190	3.012	11.097	-13.100	0.00	0.00	C
ATOM	2999	CG	LEU	190	3.169	12.508	-12.492	0.00	0.00	C
ATOM	3000	CD1	LEU	190	3.618	13.547	-13.531	0.00	0.00	C
ATOM	3001	CD2	LEU	190	1.836	12.946	-11.873	0.00	0.00	C
ATOM	3002	H	LEU	190	3.261	8.674	-13.844	0.00	0.00	H
ATOM	3003	HA	LEU	190	4.752	11.131	-14.367	0.00	0.00	H
ATOM	3004	ZHB	LEU	190	2.307	11.149	-13.932	0.00	0.00	H
ATOM	3005	3HB	LEU	190	2.586	10.438	-12.345	0.00	0.00	H
ATOM	3006	HG	LEU	190	3.910	12.474	-11.693	0.00	0.00	H
ATOM	3007	1HD1	LEU	190	4.613	13.305	-13.904	0.00	0.00	H
ATOM	3008	2HD1	LEU	190	3.657	14.535	-13.072	0.00	0.00	H
ATOM	3009	3HD1	LEU	190	2.916	13.571	-14.366	0.00	0.00	H
ATOM	3010	1HD2	LEU	190	1.940	13.935	-11.426	0.00	0.00	H
ATOM	3011	2HD2	LEU	190	1.545	12.242	-11.092	0.00	0.00	H
ATOM	3012	3HD2	LEU	190	1.059	12.978	-12.638	0.00	0.00	H

END

DATASET 53

HEADER APOPTOSIS 28-JUN-10 XXXX
 COMPND MOLECULE: APOPTOSIS REGULATOR BAK;
 COMPND 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
 COMPND 3 PROTEIN;
 SOURCE MOLECULE 1 (RESIDUES 1-27): NOXA;
 SOURCE 2 NCBI ACCESSION: Q13794;
 SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 4 ORGANISM_COMMON: HUMAN;
 SOURCE 5 MOLECULE 2 (RESIDUES 28-190): BAK;
 SOURCE 6 NCBI ACCESSION: Q16611;
 SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 8 ORGANISM_COMMON: HUMAN;
 KEYWDS HETERODIMER, APOPTOSIS
 EXPDTA THEORETICAL MODEL
 JRNL AUTH Y-P PANG, H DAI, A SMITH, XM MENG, PA SCHNEIDER, SH KAUFMANN
 JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING:
 JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
 JRNL REF SCIENTIFIC REPORTS, SUBMITTED
 REMARK 220 THIS IS AN INSTANTANEOUS STRUCTURE CLOSEST TO THE
 REMARK 220 AVERAGE OF 5100 SIMILAR CONFORMERS IDENTIFIED BY
 REMARK 220 CLUSTER ANALYSIS OF 52 10-NS MOLECULAR
 REMARK 220 DYNAMICS SIMULATIONS OF BAK*NOXA USING PMEMD WITH
 REMARK 220 THE FF99SB FORCE FIELD. NOTE: THIS STRUCTURE
 REMARK 220 CONTAINS WATERS.
 MOL 1
 ATOM 1 N ALA 1 1.961 16.863 18.953 0.00 0.00 N
 ATOM 2 CA ALA 1 0.710 16.152 18.623 0.00 0.00 C
 ATOM 3 C ALA 1 0.665 14.676 19.174 0.00 0.00 C
 ATOM 4 O ALA 1 1.638 14.166 19.682 0.00 0.00 O
 ATOM 5 CB ALA 1 0.570 16.138 17.030 0.00 0.00 C
 ATOM 6 H ALA 1 2.715 16.261 19.253 0.00 0.00 H
 ATOM 7 HA ALA 1 -0.155 16.634 19.077 0.00 0.00 H
 ATOM 8 HB1 ALA 1 -0.464 16.202 16.687 0.00 0.00 H
 ATOM 9 HB2 ALA 1 1.006 15.181 16.746 0.00 0.00 H
 ATOM 10 HB3 ALA 1 1.042 17.043 16.646 0.00 0.00 H
 ATOM 11 N GLU 2 -0.504 14.022 19.137 0.00 0.00 N
 ATOM 12 CA GLU 2 -0.649 12.711 19.714 0.00 0.00 C
 ATOM 13 C GLU 2 -0.006 11.607 18.800 0.00 0.00 C
 ATOM 14 O GLU 2 0.180 11.759 17.575 0.00 0.00 O
 ATOM 15 CB GLU 2 -2.105 12.256 19.919 0.00 0.00 C
 ATOM 16 CG GLU 2 -2.928 13.158 20.813 0.00 0.00 C
 ATOM 17 CD GLU 2 -2.361 13.141 22.235 0.00 0.00 C
 ATOM 18 OE1 GLU 2 -1.817 14.155 22.655 0.00 0.00 O
 ATOM 19 OE2 GLU 2 -2.276 12.027 22.792 0.00 0.00 O
 ATOM 20 H GLU 2 -1.248 14.529 18.679 0.00 0.00 H
 ATOM 21 HA GLU 2 -0.175 12.593 20.688 0.00 0.00 H
 ATOM 22 HB2 GLU 2 -2.080 11.226 20.272 0.00 0.00 H
 ATOM 23 HB3 GLU 2 -2.545 12.176 18.924 0.00 0.00 H
 ATOM 24 HG2 GLU 2 -2.969 14.200 20.496 0.00 0.00 H
 ATOM 25 HG3 GLU 2 -3.958 12.837 20.660 0.00 0.00 H
 ATOM 26 N LEU 3 0.230 10.421 19.316 0.00 0.00 N
 ATOM 27 CA LEU 3 1.245 9.569 18.601 0.00 0.00 C
 ATOM 28 C LEU 3 0.642 8.878 17.336 0.00 0.00 C
 ATOM 29 O LEU 3 1.353 8.574 16.396 0.00 0.00 O
 ATOM 30 CB LEU 3 1.735 8.606 19.701 0.00 0.00 C
 ATOM 31 CG LEU 3 2.766 7.518 19.304 0.00 0.00 C
 ATOM 32 CD1 LEU 3 4.164 8.083 18.831 0.00 0.00 C
 ATOM 33 CD2 LEU 3 2.944 6.497 20.441 0.00 0.00 C
 ATOM 34 H LEU 3 0.177 10.342 20.321 0.00 0.00 H
 ATOM 35 HA LEU 3 2.057 10.165 18.185 0.00 0.00 H
 ATOM 36 HB2 LEU 3 2.222 9.178 20.491 0.00 0.00 H
 ATOM 37 HB3 LEU 3 0.796 8.168 20.042 0.00 0.00 H
 ATOM 38 HG LEU 3 2.313 7.044 18.433 0.00 0.00 H
 ATOM 39 1HD1 LEU 3 4.103 8.711 17.941 0.00 0.00 H
 ATOM 40 2HD1 LEU 3 4.866 7.282 18.599 0.00 0.00 H
 ATOM 41 3HD1 LEU 3 4.604 8.769 19.555 0.00 0.00 H
 ATOM 42 1HD2 LEU 3 3.743 5.771 20.289 0.00 0.00 H
 ATOM 43 2HD2 LEU 3 3.151 7.007 21.382 0.00 0.00 H
 ATOM 44 3HD2 LEU 3 2.023 5.944 20.627 0.00 0.00 H
 ATOM 45 N GLU 4 -0.599 8.985 17.173 0.00 0.00 N
 ATOM 46 CA GLU 4 -1.359 8.639 16.002 0.00 0.00 C
 ATOM 47 C GLU 4 -1.255 9.733 14.888 0.00 0.00 C
 ATOM 48 O GLU 4 -1.564 9.464 13.729 0.00 0.00 O
 ATOM 49 CB GLU 4 -2.830 8.335 16.358 0.00 0.00 C
 ATOM 50 CG GLU 4 -3.661 9.572 16.870 0.00 0.00 C
 ATOM 51 CD GLU 4 -5.134 9.291 17.214 0.00 0.00 C
 ATOM 52 OE1 GLU 4 -5.353 8.305 18.012 0.00 0.00 O
 ATOM 53 OE2 GLU 4 -5.995 10.075 16.833 0.00 0.00 O
 ATOM 54 H GLU 4 -1.136 9.353 17.946 0.00 0.00 H
 ATOM 55 HA GLU 4 -1.013 7.667 15.650 0.00 0.00 H
 ATOM 56 HB2 GLU 4 -3.299 7.970 15.445 0.00 0.00 H
 ATOM 57 HB3 GLU 4 -2.872 7.528 17.090 0.00 0.00 H
 ATOM 58 HG2 GLU 4 -3.194 10.058 17.728 0.00 0.00 H
 ATOM 59 HG3 GLU 4 -3.554 10.256 16.028 0.00 0.00 H
 ATOM 60 N VAL 5 -0.935 10.924 15.231 0.00 0.00 N
 ATOM 61 CA VAL 5 -0.682 12.065 14.321 0.00 0.00 C
 ATOM 62 C VAL 5 0.811 12.187 14.088 0.00 0.00 C
 ATOM 63 O VAL 5 1.275 12.320 12.955 0.00 0.00 O
 ATOM 64 CB VAL 5 -1.313 13.400 14.747 0.00 0.00 C
 ATOM 65 CG1 VAL 5 -1.625 14.281 13.520 0.00 0.00 C
 ATOM 66 CG2 VAL 5 -2.622 13.184 15.402 0.00 0.00 C
 ATOM 67 H VAL 5 -0.600 11.041 16.177 0.00 0.00 H
 ATOM 68 HA VAL 5 -1.100 11.834 13.342 0.00 0.00 H
 ATOM 69 HB VAL 5 -0.617 13.984 15.349 0.00 0.00 H
 ATOM 70 1HG1 VAL 5 -0.846 14.557 12.810 0.00 0.00 H
 ATOM 71 2HG1 VAL 5 -2.365 13.726 12.941 0.00 0.00 H
 ATOM 72 3HG1 VAL 5 -2.128 15.176 13.888 0.00 0.00 H
 ATOM 73 1HG2 VAL 5 -3.009 14.180 15.621 0.00 0.00 H
 ATOM 74 2HG2 VAL 5 -3.316 12.615 14.783 0.00 0.00 H
 ATOM 75 3HG2 VAL 5 -2.509 12.663 16.353 0.00 0.00 H
 ATOM 76 N GLU 6 1.629 11.909 15.104 0.00 0.00 N
 ATOM 77 CA GLU 6 3.099 11.812 14.907 0.00 0.00 C
 ATOM 78 C GLU 6 3.382 10.717 13.829 0.00 0.00 C
 ATOM 79 O GLU 6 4.057 10.948 12.766 0.00 0.00 O
 ATOM 80 CB GLU 6 3.698 11.550 16.249 0.00 0.00 C

ATOM	81	CG	GLU	6	5.174	11.827	16.290	0.00	0.00	C
ATOM	82	CD	GLU	6	5.795	11.538	17.675	0.00	0.00	C
ATOM	83	OE1	GLU	6	6.401	10.413	17.852	0.00	0.00	O
ATOM	84	OE2	GLU	6	5.441	12.273	18.619	0.00	0.00	O
ATOM	85	H	GLU	6	1.157	11.702	15.973	0.00	0.00	H
ATOM	86	HA	GLU	6	3.535	12.744	14.547	0.00	0.00	H
ATOM	87	HB2	GLU	6	3.223	12.151	17.025	0.00	0.00	H
ATOM	88	HB3	GLU	6	3.601	10.492	16.496	0.00	0.00	H
ATOM	89	HG2	GLU	6	5.718	11.187	15.597	0.00	0.00	H
ATOM	90	HG3	GLU	6	5.453	12.828	15.961	0.00	0.00	H
ATOM	91	N	CYS	7	2.809	9.479	14.053	0.00	0.00	N
ATOM	92	CA	CYS	7	2.955	8.420	13.143	0.00	0.00	C
ATOM	93	C	CYS	7	2.423	8.678	11.727	0.00	0.00	C
ATOM	94	O	CYS	7	2.921	8.162	10.741	0.00	0.00	O
ATOM	95	CB	CYS	7	2.374	7.126	13.672	0.00	0.00	C
ATOM	96	SG	CYS	7	3.668	6.407	14.791	0.00	0.00	S
ATOM	97	H	CYS	7	2.266	9.329	14.890	0.00	0.00	H
ATOM	98	HA	CYS	7	4.000	8.137	13.021	0.00	0.00	H
ATOM	99	HB2	CYS	7	1.421	7.405	14.119	0.00	0.00	H
ATOM	100	HB3	CYS	7	2.258	6.449	12.826	0.00	0.00	H
ATOM	101	HG	CYS	7	3.907	7.538	15.461	0.00	0.00	H
ATOM	102	N	ALA	8	1.410	9.564	11.592	0.00	0.00	N
ATOM	103	CA	ALA	8	0.981	10.204	10.372	0.00	0.00	C
ATOM	104	C	ALA	8	2.044	11.143	9.756	0.00	0.00	C
ATOM	105	O	ALA	8	2.419	10.938	8.574	0.00	0.00	O
ATOM	106	CB	ALA	8	-0.392	10.753	10.599	0.00	0.00	C
ATOM	107	H	ALA	8	1.023	9.853	12.478	0.00	0.00	H
ATOM	108	HA	ALA	8	0.844	9.285	9.802	0.00	0.00	H
ATOM	109	HB1	ALA	8	-0.801	11.093	9.647	0.00	0.00	H
ATOM	110	HB2	ALA	8	-1.062	9.931	10.851	0.00	0.00	H
ATOM	111	HB3	ALA	8	-0.414	11.534	11.359	0.00	0.00	H
ATOM	112	N	THR	9	2.645	11.989	10.532	0.00	0.00	N
ATOM	113	CA	THR	9	3.702	12.895	10.085	0.00	0.00	C
ATOM	114	C	THR	9	4.904	12.062	9.616	0.00	0.00	C
ATOM	115	O	THR	9	5.502	12.253	8.517	0.00	0.00	O
ATOM	116	CB	THR	9	4.053	13.949	11.206	0.00	0.00	C
ATOM	117	CG2	THR	9	4.877	15.178	10.680	0.00	0.00	C
ATOM	118	OG1	THR	9	2.919	14.572	11.835	0.00	0.00	O
ATOM	119	H	THR	9	2.250	12.135	11.451	0.00	0.00	H
ATOM	120	HA	THR	9	3.295	13.473	9.254	0.00	0.00	H
ATOM	121	HB	THR	9	4.712	13.405	11.884	0.00	0.00	H
ATOM	122	HG1	THR	9	2.105	14.220	11.469	0.00	0.00	H
ATOM	123	1HG2	THR	9	4.199	15.904	10.232	0.00	0.00	H
ATOM	124	2HG2	THR	9	5.638	14.995	9.921	0.00	0.00	H
ATOM	125	3HG2	THR	9	5.350	15.628	11.553	0.00	0.00	H
ATOM	126	N	GLN	10	5.116	10.897	10.248	0.00	0.00	N
ATOM	127	CA	GLN	10	6.150	9.904	9.881	0.00	0.00	C
ATOM	128	C	GLN	10	5.950	9.299	8.405	0.00	0.00	C
ATOM	129	O	GLN	10	6.891	9.276	7.599	0.00	0.00	O
ATOM	130	CB	GLN	10	6.282	8.735	10.933	0.00	0.00	C
ATOM	131	CG	GLN	10	7.415	7.788	10.454	0.00	0.00	C
ATOM	132	CD	GLN	10	7.751	6.812	11.496	0.00	0.00	C
ATOM	133	NE2	GLN	10	7.496	5.581	11.378	0.00	0.00	N
ATOM	134	OE1	GLN	10	8.307	7.206	12.532	0.00	0.00	O
ATOM	135	H	GLN	10	4.508	10.812	11.048	0.00	0.00	H
ATOM	136	HA	GLN	10	7.082	10.466	9.886	0.00	0.00	H
ATOM	137	HB2	GLN	10	6.513	9.112	11.930	0.00	0.00	H
ATOM	138	HB3	GLN	10	5.344	8.186	11.007	0.00	0.00	H
ATOM	139	HG2	GLN	10	7.188	7.231	9.545	0.00	0.00	H
ATOM	140	HG3	GLN	10	8.338	8.327	10.239	0.00	0.00	H
ATOM	141	1HE2	GLN	10	7.405	5.232	10.434	0.00	0.00	H
ATOM	142	2HE2	GLN	10	7.708	4.932	12.120	0.00	0.00	H
ATOM	143	N	LEU	11	4.733	8.871	8.084	0.00	0.00	N
ATOM	144	CA	LEU	11	4.266	8.327	6.797	0.00	0.00	C
ATOM	145	C	LEU	11	4.056	9.427	5.773	0.00	0.00	C
ATOM	146	O	LEU	11	4.184	9.196	4.582	0.00	0.00	O
ATOM	147	CB	LEU	11	3.002	7.533	7.094	0.00	0.00	C
ATOM	148	CG	LEU	11	2.596	6.711	5.868	0.00	0.00	C
ATOM	149	CD1	LEU	11	3.639	5.605	5.584	0.00	0.00	C
ATOM	150	CD2	LEU	11	1.316	5.991	5.973	0.00	0.00	C
ATOM	151	H	LEU	11	4.102	8.924	8.871	0.00	0.00	H
ATOM	152	HA	LEU	11	5.124	7.744	6.464	0.00	0.00	H
ATOM	153	HB2	LEU	11	3.088	6.863	7.948	0.00	0.00	H
ATOM	154	HB3	LEU	11	2.131	8.061	7.481	0.00	0.00	H
ATOM	155	HG	LEU	11	2.630	7.261	4.926	0.00	0.00	H
ATOM	156	1HD1	LEU	11	3.277	4.910	4.824	0.00	0.00	H
ATOM	157	2HD1	LEU	11	3.873	5.111	6.527	0.00	0.00	H
ATOM	158	3HD1	LEU	11	4.515	6.172	5.271	0.00	0.00	H
ATOM	159	1HD2	LEU	11	1.383	5.399	6.887	0.00	0.00	H
ATOM	160	2HD2	LEU	11	0.502	6.714	5.942	0.00	0.00	H
ATOM	161	3HD2	LEU	11	1.209	5.317	5.123	0.00	0.00	H
ATOM	162	N	ARG	12	3.968	10.715	6.228	0.00	0.00	N
ATOM	163	CA	ARG	12	3.880	11.890	5.407	0.00	0.00	C
ATOM	164	C	ARG	12	5.191	12.390	4.914	0.00	0.00	C
ATOM	165	O	ARG	12	5.299	12.779	3.746	0.00	0.00	O
ATOM	166	CB	ARG	12	3.134	12.933	6.138	0.00	0.00	C
ATOM	167	CG	ARG	12	2.756	14.103	5.208	0.00	0.00	C
ATOM	168	CD	ARG	12	2.050	15.244	5.960	0.00	0.00	C
ATOM	169	NE	ARG	12	3.080	16.171	6.434	0.00	0.00	N
ATOM	170	CZ	ARG	12	3.006	17.057	7.381	0.00	0.00	C
ATOM	171	NH1	ARG	12	1.887	17.549	7.823	0.00	0.00	N
ATOM	172	NH2	ARG	12	4.086	17.422	8.008	0.00	0.00	N
ATOM	173	H	ARG	12	3.841	10.860	7.219	0.00	0.00	H
ATOM	174	HA	ARG	12	3.293	11.559	4.550	0.00	0.00	H
ATOM	175	HB2	ARG	12	2.270	12.412	6.548	0.00	0.00	H
ATOM	176	HB3	ARG	12	3.715	13.367	6.951	0.00	0.00	H
ATOM	177	HG2	ARG	12	3.658	14.496	4.742	0.00	0.00	H
ATOM	178	HG3	ARG	12	2.147	13.743	4.377	0.00	0.00	H
ATOM	179	HD2	ARG	12	1.425	15.758	5.232	0.00	0.00	H
ATOM	180	HD3	ARG	12	1.352	14.967	6.750	0.00	0.00	H
ATOM	181	HE	ARG	12	4.028	15.983	6.143	0.00	0.00	H
ATOM	182	1HH1	ARG	12	1.082	17.596	7.214	0.00	0.00	H
ATOM	183	2HH1	ARG	12	2.035	18.132	8.635	0.00	0.00	H
ATOM	184	1HH2	ARG	12	4.992	17.135	7.667	0.00	0.00	H
ATOM	185	2HH2	ARG	12	4.135	18.216	8.631	0.00	0.00	H

ATOM	186	N	ARG	13	6.227	12.365	5.808	0.00	0.00	N
ATOM	187	CA	ARG	13	7.654	12.792	5.519	0.00	0.00	C
ATOM	188	C	ARG	13	8.397	11.638	4.864	0.00	0.00	C
ATOM	189	O	ARG	13	9.303	11.957	4.082	0.00	0.00	O
ATOM	190	CB	ARG	13	8.295	13.475	6.781	0.00	0.00	C
ATOM	191	CG	ARG	13	8.996	12.413	7.698	0.00	0.00	C
ATOM	192	CD	ARG	13	9.599	12.961	8.952	0.00	0.00	C
ATOM	193	NE	ARG	13	9.859	11.853	9.917	0.00	0.00	N
ATOM	194	CZ	ARG	13	9.162	11.617	11.054	0.00	0.00	C
ATOM	195	NH1	ARG	13	8.288	12.371	11.632	0.00	0.00	N
ATOM	196	NH2	ARG	13	9.511	10.529	11.641	0.00	0.00	N
ATOM	197	H	ARG	13	6.005	12.294	6.791	0.00	0.00	H
ATOM	198	HA	ARG	13	7.506	13.569	4.769	0.00	0.00	H
ATOM	199	HB2	ARG	13	9.013	14.246	6.507	0.00	0.00	H
ATOM	200	HB3	ARG	13	7.541	13.905	7.442	0.00	0.00	H
ATOM	201	HG2	ARG	13	8.327	11.568	7.858	0.00	0.00	H
ATOM	202	HG3	ARG	13	9.788	11.936	7.119	0.00	0.00	H
ATOM	203	HD2	ARG	13	10.500	13.504	8.663	0.00	0.00	H
ATOM	204	HD3	ARG	13	8.871	13.620	9.426	0.00	0.00	H
ATOM	205	HE	ARG	13	10.608	11.232	9.647	0.00	0.00	H
ATOM	206	1HH1	ARG	13	8.305	13.353	11.394	0.00	0.00	H
ATOM	207	2HH1	ARG	13	8.064	12.141	12.589	0.00	0.00	H
ATOM	208	1HH2	ARG	13	10.253	9.938	11.291	0.00	0.00	H
ATOM	209	2HH2	ARG	13	8.880	10.095	12.299	0.00	0.00	H
ATOM	210	N	PHE	14	7.963	10.348	4.992	0.00	0.00	N
ATOM	211	CA	PHE	14	8.276	9.305	4.035	0.00	0.00	C
ATOM	212	C	PHE	14	7.588	9.529	2.679	0.00	0.00	C
ATOM	213	O	PHE	14	8.179	9.148	1.691	0.00	0.00	O
ATOM	214	CB	PHE	14	7.948	7.953	4.576	0.00	0.00	C
ATOM	215	CG	PHE	14	8.343	6.782	3.765	0.00	0.00	C
ATOM	216	CD1	PHE	14	9.703	6.493	3.530	0.00	0.00	C
ATOM	217	CD2	PHE	14	7.373	5.895	3.261	0.00	0.00	C
ATOM	218	CE1	PHE	14	10.042	5.526	2.518	0.00	0.00	C
ATOM	219	CE2	PHE	14	7.656	4.943	2.362	0.00	0.00	C
ATOM	220	CZ	PHE	14	9.011	4.765	1.961	0.00	0.00	C
ATOM	221	H	PHE	14	7.257	10.139	5.683	0.00	0.00	H
ATOM	222	HA	PHE	14	9.335	9.292	3.781	0.00	0.00	H
ATOM	223	HB2	PHE	14	8.481	7.889	5.524	0.00	0.00	H
ATOM	224	HB3	PHE	14	6.886	7.815	4.774	0.00	0.00	H
ATOM	225	HD1	PHE	14	10.440	7.090	4.048	0.00	0.00	H
ATOM	226	HD2	PHE	14	6.347	6.042	3.569	0.00	0.00	H
ATOM	227	HE1	PHE	14	11.058	5.244	2.289	0.00	0.00	H
ATOM	228	HE2	PHE	14	6.862	4.312	1.992	0.00	0.00	H
ATOM	229	HZ	PHE	14	9.233	4.009	1.223	0.00	0.00	H
ATOM	230	N	GLY	15	6.413	10.180	2.595	0.00	0.00	N
ATOM	231	CA	GLY	15	5.889	10.441	1.250	0.00	0.00	C
ATOM	232	C	GLY	15	6.750	11.430	0.410	0.00	0.00	C
ATOM	233	O	GLY	15	6.985	11.136	-0.731	0.00	0.00	O
ATOM	234	H	GLY	15	6.049	10.615	3.431	0.00	0.00	H
ATOM	235	HA2	GLY	15	5.897	9.515	0.677	0.00	0.00	H
ATOM	236	HA3	GLY	15	4.859	10.792	1.329	0.00	0.00	H
ATOM	237	N	ASP	16	7.010	12.599	1.026	0.00	0.00	N
ATOM	238	CA	ASP	16	7.826	13.649	0.337	0.00	0.00	C
ATOM	239	C	ASP	16	9.114	13.198	-0.290	0.00	0.00	C
ATOM	240	O	ASP	16	9.468	13.633	-1.356	0.00	0.00	O
ATOM	241	CB	ASP	16	8.094	14.806	1.181	0.00	0.00	C
ATOM	242	CG	ASP	16	6.833	15.508	1.636	0.00	0.00	C
ATOM	243	OD1	ASP	16	6.807	15.928	2.807	0.00	0.00	O
ATOM	244	OD2	ASP	16	5.785	15.564	0.963	0.00	0.00	O
ATOM	245	H	ASP	16	6.749	12.744	1.991	0.00	0.00	H
ATOM	246	HA	ASP	16	7.196	13.944	-0.502	0.00	0.00	H
ATOM	247	HB2	ASP	16	8.647	14.443	2.047	0.00	0.00	H
ATOM	248	HB3	ASP	16	8.750	15.495	0.649	0.00	0.00	H
ATOM	249	N	LYS	17	9.802	12.355	0.499	0.00	0.00	N
ATOM	250	CA	LYS	17	10.973	11.503	0.103	0.00	0.00	C
ATOM	251	C	LYS	17	10.681	10.637	-1.104	0.00	0.00	C
ATOM	252	O	LYS	17	11.400	10.700	-2.091	0.00	0.00	O
ATOM	253	CB	LYS	17	11.432	10.678	1.333	0.00	0.00	C
ATOM	254	CG	LYS	17	12.641	11.279	2.112	0.00	0.00	C
ATOM	255	CD	LYS	17	12.899	10.338	3.234	0.00	0.00	C
ATOM	256	CE	LYS	17	14.110	10.804	4.021	0.00	0.00	C
ATOM	257	NZ	LYS	17	13.803	12.078	4.771	0.00	0.00	N
ATOM	258	H	LYS	17	9.463	12.376	1.450	0.00	0.00	H
ATOM	259	HA	LYS	17	11.786	12.187	-0.140	0.00	0.00	H
ATOM	260	HB2	LYS	17	10.586	10.409	1.967	0.00	0.00	H
ATOM	261	HB3	LYS	17	11.733	9.742	0.863	0.00	0.00	H
ATOM	262	HG2	LYS	17	13.563	11.238	1.535	0.00	0.00	H
ATOM	263	HG3	LYS	17	12.381	12.310	2.359	0.00	0.00	H
ATOM	264	HD2	LYS	17	11.999	10.268	3.844	0.00	0.00	H
ATOM	265	HD3	LYS	17	13.116	9.326	2.890	0.00	0.00	H
ATOM	266	HE2	LYS	17	14.496	10.097	4.754	0.00	0.00	H
ATOM	267	HE3	LYS	17	14.891	10.999	3.287	0.00	0.00	H
ATOM	268	HZ1	LYS	17	13.596	12.892	4.210	0.00	0.00	H
ATOM	269	HZ2	LYS	17	13.004	12.045	5.388	0.00	0.00	H
ATOM	270	HZ3	LYS	17	14.661	12.222	5.285	0.00	0.00	H
ATOM	271	N	LEU	18	9.601	9.900	-1.069	0.00	0.00	N
ATOM	272	CA	LEU	18	9.162	8.975	-2.176	0.00	0.00	C
ATOM	273	C	LEU	18	8.651	9.737	-3.392	0.00	0.00	C
ATOM	274	O	LEU	18	8.804	9.338	-4.549	0.00	0.00	O
ATOM	275	CB	LEU	18	8.285	7.922	-1.548	0.00	0.00	C
ATOM	276	CG	LEU	18	7.990	6.822	-2.547	0.00	0.00	C
ATOM	277	CD1	LEU	18	9.182	6.000	-3.070	0.00	0.00	C
ATOM	278	CD2	LEU	18	6.830	5.945	-2.082	0.00	0.00	C
ATOM	279	H	LEU	18	9.011	9.937	-0.250	0.00	0.00	H
ATOM	280	HA	LEU	18	10.053	8.449	-2.517	0.00	0.00	H
ATOM	281	HB2	LEU	18	8.888	7.567	-0.711	0.00	0.00	H
ATOM	282	HB3	LEU	18	7.369	8.374	-1.165	0.00	0.00	H
ATOM	283	HG	LEU	18	7.552	7.224	-3.461	0.00	0.00	H
ATOM	284	1HD1	LEU	18	9.758	5.828	-2.161	0.00	0.00	H
ATOM	285	2HD1	LEU	18	8.954	4.970	-3.343	0.00	0.00	H
ATOM	286	3HD1	LEU	18	9.835	6.563	-3.739	0.00	0.00	H
ATOM	287	1HD2	LEU	18	7.202	5.283	-1.300	0.00	0.00	H
ATOM	288	2HD2	LEU	18	5.972	6.601	-1.936	0.00	0.00	H
ATOM	289	3HD2	LEU	18	6.602	5.248	-2.889	0.00	0.00	H
ATOM	290	N	ASN	19	8.124	10.961	-3.192	0.00	0.00	N

ATOM	291	CA	ASN	19	7.796	11.874	-4.274	0.00	0.00	C
ATOM	292	C	ASN	19	9.083	12.339	-4.996	0.00	0.00	C
ATOM	293	O	ASN	19	9.147	12.255	-6.181	0.00	0.00	O
ATOM	294	CB	ASN	19	6.965	13.067	-3.760	0.00	0.00	C
ATOM	295	CG	ASN	19	6.397	13.788	-4.951	0.00	0.00	C
ATOM	296	ND2	ASN	19	5.986	15.032	-4.892	0.00	0.00	N
ATOM	297	OD1	ASN	19	6.166	13.115	-5.963	0.00	0.00	O
ATOM	298	H	ASN	19	8.151	11.381	-2.273	0.00	0.00	H
ATOM	299	HA	ASN	19	7.246	11.298	-5.018	0.00	0.00	H
ATOM	300	HB2	ASN	19	6.088	12.645	-3.268	0.00	0.00	H
ATOM	301	HB3	ASN	19	7.418	13.670	-2.973	0.00	0.00	H
ATOM	302	1HD2	ASN	19	5.700	15.446	-5.769	0.00	0.00	H
ATOM	303	2HD2	ASN	19	6.354	15.594	-4.139	0.00	0.00	H
ATOM	304	N	PHE	20	10.119	12.742	-4.200	0.00	0.00	N
ATOM	305	CA	PHE	20	11.469	13.011	-4.805	0.00	0.00	C
ATOM	306	C	PHE	20	12.297	11.803	-5.304	0.00	0.00	C
ATOM	307	O	PHE	20	13.358	12.030	-5.925	0.00	0.00	O
ATOM	308	CB	PHE	20	12.227	13.828	-3.682	0.00	0.00	C
ATOM	309	CG	PHE	20	13.474	14.596	-4.138	0.00	0.00	C
ATOM	310	CD1	PHE	20	13.435	15.524	-5.192	0.00	0.00	C
ATOM	311	CD2	PHE	20	14.738	14.350	-3.490	0.00	0.00	C
ATOM	312	CE1	PHE	20	14.612	15.971	-5.735	0.00	0.00	C
ATOM	313	CE2	PHE	20	15.948	14.922	-4.035	0.00	0.00	C
ATOM	314	CZ	PHE	20	15.866	15.708	-5.154	0.00	0.00	C
ATOM	315	H	PHE	20	9.991	12.990	-3.228	0.00	0.00	H
ATOM	316	HA	PHE	20	11.451	13.757	-5.600	0.00	0.00	H
ATOM	317	HB2	PHE	20	11.521	14.586	-3.339	0.00	0.00	H
ATOM	318	HB3	PHE	20	12.438	13.079	-2.919	0.00	0.00	H
ATOM	319	HD1	PHE	20	12.494	15.591	-5.718	0.00	0.00	H
ATOM	320	HD2	PHE	20	14.787	13.526	-2.794	0.00	0.00	H
ATOM	321	HE1	PHE	20	14.452	16.644	-6.564	0.00	0.00	H
ATOM	322	HE2	PHE	20	16.895	14.614	-3.620	0.00	0.00	H
ATOM	323	HZ	PHE	20	16.718	16.025	-5.737	0.00	0.00	H
ATOM	324	N	ARG	21	11.809	10.579	-5.106	0.00	0.00	N
ATOM	325	CA	ARG	21	12.492	9.353	-5.724	0.00	0.00	C
ATOM	326	C	ARG	21	12.358	9.229	-7.272	0.00	0.00	C
ATOM	327	O	ARG	21	12.047	8.165	-7.863	0.00	0.00	O
ATOM	328	CB	ARG	21	12.061	8.104	-4.947	0.00	0.00	C
ATOM	329	CG	ARG	21	13.183	7.016	-5.163	0.00	0.00	C
ATOM	330	CD	ARG	21	14.270	7.234	-4.090	0.00	0.00	C
ATOM	331	NE	ARG	21	15.349	6.212	-4.255	0.00	0.00	N
ATOM	332	CZ	ARG	21	16.517	6.377	-4.780	0.00	0.00	C
ATOM	333	NH1	ARG	21	16.936	7.490	-5.330	0.00	0.00	N
ATOM	334	NH2	ARG	21	17.387	5.433	-4.881	0.00	0.00	N
ATOM	335	H	ARG	21	10.840	10.502	-4.835	0.00	0.00	H
ATOM	336	HA	ARG	21	13.547	9.605	-5.619	0.00	0.00	H
ATOM	337	HB2	ARG	21	11.809	8.292	-3.904	0.00	0.00	H
ATOM	338	HB3	ARG	21	11.127	7.769	-5.399	0.00	0.00	H
ATOM	339	HG2	ARG	21	12.818	6.013	-4.947	0.00	0.00	H
ATOM	340	HG3	ARG	21	13.653	7.095	-6.144	0.00	0.00	H
ATOM	341	HD2	ARG	21	14.730	8.216	-4.186	0.00	0.00	H
ATOM	342	HD3	ARG	21	13.784	7.024	-3.138	0.00	0.00	H
ATOM	343	HE	ARG	21	15.135	5.305	-3.866	0.00	0.00	H
ATOM	344	1HH1	ARG	21	16.495	8.338	-5.006	0.00	0.00	H
ATOM	345	2HH1	ARG	21	17.729	7.604	-5.945	0.00	0.00	H
ATOM	346	1HH2	ARG	21	17.060	4.538	-4.548	0.00	0.00	H
ATOM	347	2HH2	ARG	21	18.169	5.583	-5.504	0.00	0.00	H
ATOM	348	N	GLN	22	12.358	10.334	-7.962	0.00	0.00	N
ATOM	349	CA	GLN	22	11.897	10.621	-9.323	0.00	0.00	C
ATOM	350	C	GLN	22	12.579	9.785	-10.421	0.00	0.00	C
ATOM	351	O	GLN	22	11.918	9.477	-11.384	0.00	0.00	O
ATOM	352	CB	GLN	22	12.004	12.101	-9.656	0.00	0.00	C
ATOM	353	CG	GLN	22	10.987	12.933	-8.845	0.00	0.00	C
ATOM	354	CD	GLN	22	10.901	14.352	-9.206	0.00	0.00	C
ATOM	355	NE2	GLN	22	10.542	15.213	-8.289	0.00	0.00	N
ATOM	356	OE1	GLN	22	11.130	14.831	-10.319	0.00	0.00	O
ATOM	357	H	GLN	22	12.771	11.053	-7.387	0.00	0.00	H
ATOM	358	HA	GLN	22	10.826	10.436	-9.398	0.00	0.00	H
ATOM	359	HB2	GLN	22	13.004	12.504	-9.495	0.00	0.00	H
ATOM	360	HB3	GLN	22	11.745	12.202	-10.710	0.00	0.00	H
ATOM	361	HG2	GLN	22	10.028	12.416	-8.858	0.00	0.00	H
ATOM	362	HG3	GLN	22	11.225	12.889	-7.783	0.00	0.00	H
ATOM	363	1HE2	GLN	22	10.531	16.200	-8.502	0.00	0.00	H
ATOM	364	2HE2	GLN	22	10.424	14.875	-7.345	0.00	0.00	H
ATOM	365	N	LYS	23	13.786	9.298	-10.213	0.00	0.00	N
ATOM	366	CA	LYS	23	14.632	8.576	-11.154	0.00	0.00	C
ATOM	367	C	LYS	23	14.461	7.058	-11.065	0.00	0.00	C
ATOM	368	O	LYS	23	14.633	6.408	-12.079	0.00	0.00	O
ATOM	369	CB	LYS	23	16.207	8.847	-10.970	0.00	0.00	C
ATOM	370	CG	LYS	23	16.567	10.306	-10.781	0.00	0.00	C
ATOM	371	CD	LYS	23	18.069	10.675	-10.733	0.00	0.00	C
ATOM	372	CE	LYS	23	18.231	12.211	-10.769	0.00	0.00	C
ATOM	373	NZ	LYS	23	17.855	12.806	-9.475	0.00	0.00	N
ATOM	374	H	LYS	23	14.232	9.543	-9.340	0.00	0.00	H
ATOM	375	HA	LYS	23	14.309	8.963	-12.121	0.00	0.00	H
ATOM	376	HB2	LYS	23	16.616	8.333	-10.098	0.00	0.00	H
ATOM	377	HB3	LYS	23	16.699	8.412	-11.840	0.00	0.00	H
ATOM	378	HG2	LYS	23	16.043	10.953	-11.484	0.00	0.00	H
ATOM	379	HG3	LYS	23	16.153	10.655	-9.836	0.00	0.00	H
ATOM	380	HD2	LYS	23	18.489	10.208	-9.842	0.00	0.00	H
ATOM	381	HD3	LYS	23	18.525	10.272	-11.637	0.00	0.00	H
ATOM	382	HE2	LYS	23	19.243	12.474	-11.077	0.00	0.00	H
ATOM	383	HE3	LYS	23	17.575	12.664	-11.511	0.00	0.00	H
ATOM	384	HZ1	LYS	23	18.573	12.464	-8.852	0.00	0.00	H
ATOM	385	HZ2	LYS	23	17.902	13.808	-9.599	0.00	0.00	H
ATOM	386	HZ3	LYS	23	16.899	12.563	-9.255	0.00	0.00	H
ATOM	387	N	LEU	24	14.015	6.520	-9.956	0.00	0.00	N
ATOM	388	CA	LEU	24	13.713	5.124	-9.758	0.00	0.00	C
ATOM	389	C	LEU	24	12.223	4.857	-9.752	0.00	0.00	C
ATOM	390	O	LEU	24	11.747	3.847	-10.299	0.00	0.00	O
ATOM	391	CB	LEU	24	14.411	4.800	-8.421	0.00	0.00	C
ATOM	392	CG	LEU	24	14.186	3.339	-7.943	0.00	0.00	C
ATOM	393	CD1	LEU	24	14.951	2.369	-8.861	0.00	0.00	C
ATOM	394	CD2	LEU	24	14.893	3.252	-6.615	0.00	0.00	C
ATOM	395	H	LEU	24	13.925	7.184	-9.200	0.00	0.00	H

ATOM	396	HA	LEU	24	14.104	4.419	-10.493	0.00	0.00	H
ATOM	397	HB2	LEU	24	15.486	4.774	-8.600	0.00	0.00	H
ATOM	398	HB3	LEU	24	14.195	5.541	-7.652	0.00	0.00	H
ATOM	399	HG	LEU	24	13.129	3.095	-7.833	0.00	0.00	H
ATOM	400	1HD1	LEU	24	14.643	2.452	-9.903	0.00	0.00	H
ATOM	401	2HD1	LEU	24	16.030	2.523	-8.852	0.00	0.00	H
ATOM	402	3HD1	LEU	24	14.742	1.346	-8.546	0.00	0.00	H
ATOM	403	1HD2	LEU	24	14.863	2.264	-6.153	0.00	0.00	H
ATOM	404	2HD2	LEU	24	15.956	3.455	-6.744	0.00	0.00	H
ATOM	405	3HD2	LEU	24	14.468	4.015	-5.963	0.00	0.00	H
ATOM	406	N	LEU	25	11.427	5.814	-9.146	0.00	0.00	N
ATOM	407	CA	LEU	25	9.911	5.719	-9.106	0.00	0.00	C
ATOM	408	C	LEU	25	9.248	6.039	-10.474	0.00	0.00	C
ATOM	409	O	LEU	25	8.464	6.996	-10.554	0.00	0.00	O
ATOM	410	CB	LEU	25	9.337	6.586	-7.960	0.00	0.00	C
ATOM	411	CG	LEU	25	7.925	6.328	-7.523	0.00	0.00	C
ATOM	412	CD1	LEU	25	7.760	4.894	-6.945	0.00	0.00	C
ATOM	413	CD2	LEU	25	7.431	7.260	-6.423	0.00	0.00	C
ATOM	414	H	LEU	25	11.794	6.731	-8.932	0.00	0.00	H
ATOM	415	HA	LEU	25	9.640	4.664	-9.081	0.00	0.00	H
ATOM	416	HB2	LEU	25	10.041	6.449	-7.139	0.00	0.00	H
ATOM	417	HB3	LEU	25	9.363	7.614	-8.323	0.00	0.00	H
ATOM	418	HG	LEU	25	7.301	6.528	-8.394	0.00	0.00	H
ATOM	419	1HD1	LEU	25	7.991	4.780	-5.886	0.00	0.00	H
ATOM	420	2HD1	LEU	25	6.677	4.854	-7.064	0.00	0.00	H
ATOM	421	3HD1	LEU	25	8.332	4.232	-7.594	0.00	0.00	H
ATOM	422	1HD2	LEU	25	7.991	7.038	-5.515	0.00	0.00	H
ATOM	423	2HD2	LEU	25	6.403	6.973	-6.210	0.00	0.00	H
ATOM	424	3HD2	LEU	25	7.622	8.305	-6.672	0.00	0.00	H
ATOM	425	N	ASN	26	9.587	5.358	-11.535	0.00	0.00	N
ATOM	426	CA	ASN	26	9.180	5.633	-12.889	0.00	0.00	C
ATOM	427	C	ASN	26	8.544	4.440	-13.509	0.00	0.00	C
ATOM	428	O	ASN	26	8.698	3.309	-13.065	0.00	0.00	O
ATOM	429	CB	ASN	26	10.545	6.063	-13.544	0.00	0.00	C
ATOM	430	CG	ASN	26	10.381	6.710	-14.858	0.00	0.00	C
ATOM	431	ND2	ASN	26	11.420	6.672	-15.614	0.00	0.00	N
ATOM	432	OD1	ASN	26	9.300	7.138	-15.245	0.00	0.00	O
ATOM	433	H	ASN	26	10.259	4.612	-11.436	0.00	0.00	H
ATOM	434	HA	ASN	26	8.521	6.499	-12.847	0.00	0.00	H
ATOM	435	HB2	ASN	26	10.951	6.835	-12.889	0.00	0.00	H
ATOM	436	HB3	ASN	26	11.204	5.196	-13.585	0.00	0.00	H
ATOM	437	1HD2	ASN	26	11.455	7.181	-16.486	0.00	0.00	H
ATOM	438	2HD2	ASN	26	12.207	6.184	-15.213	0.00	0.00	H
ATOM	439	N	LEU	27	7.788	4.730	-14.574	0.00	0.00	N
ATOM	440	CA	LEU	27	7.379	3.753	-15.577	0.00	0.00	C
ATOM	441	C	LEU	27	7.717	4.303	-17.035	0.00	0.00	C
ATOM	442	O	LEU	27	7.084	5.209	-17.660	0.00	0.00	O
ATOM	443	CB	LEU	27	5.864	3.358	-15.474	0.00	0.00	C
ATOM	444	CG	LEU	27	5.372	2.320	-16.574	0.00	0.00	C
ATOM	445	CD1	LEU	27	6.172	1.035	-16.763	0.00	0.00	C
ATOM	446	CD2	LEU	27	3.982	1.805	-16.205	0.00	0.00	C
ATOM	447	H	LEU	27	7.615	5.714	-14.729	0.00	0.00	H
ATOM	448	HA	LEU	27	8.041	2.895	-15.449	0.00	0.00	H
ATOM	449	HB2	LEU	27	5.791	2.861	-14.506	0.00	0.00	H
ATOM	450	HB3	LEU	27	5.344	4.312	-15.393	0.00	0.00	H
ATOM	451	HG	LEU	27	5.216	2.868	-17.503	0.00	0.00	H
ATOM	452	1HD1	LEU	27	6.338	0.576	-15.788	0.00	0.00	H
ATOM	453	2HD1	LEU	27	5.782	0.280	-17.447	0.00	0.00	H
ATOM	454	3HD1	LEU	27	7.114	1.379	-17.192	0.00	0.00	H
ATOM	455	1HD2	LEU	27	3.977	1.371	-15.204	0.00	0.00	H
ATOM	456	2HD2	LEU	27	3.233	2.595	-16.188	0.00	0.00	H
ATOM	457	3HD2	LEU	27	3.584	1.123	-16.956	0.00	0.00	H
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ATOM	458	N	SER	28	-12.910	3.860	-17.466	0.00	0.00	N
ATOM	459	CA	SER	28	-12.549	4.331	-16.152	0.00	0.00	C
ATOM	460	C	SER	28	-12.680	5.831	-15.923	0.00	0.00	C
ATOM	461	O	SER	28	-11.864	6.413	-15.209	0.00	0.00	O
ATOM	462	CB	SER	28	-11.350	3.690	-15.484	0.00	0.00	C
ATOM	463	OG	SER	28	-11.567	2.296	-15.580	0.00	0.00	O
ATOM	464	H	SER	28	-12.574	2.968	-17.797	0.00	0.00	H
ATOM	465	HA	SER	28	-13.375	3.997	-15.521	0.00	0.00	H
ATOM	466	HB2	SER	28	-10.378	3.949	-15.904	0.00	0.00	H
ATOM	467	HB3	SER	28	-11.268	3.888	-14.415	0.00	0.00	H
ATOM	468	HG	SER	28	-10.882	1.903	-15.035	0.00	0.00	H
ATOM	469	N	ALA	29	-13.680	6.491	-16.494	0.00	0.00	N
ATOM	470	CA	ALA	29	-13.930	7.852	-16.216	0.00	0.00	C
ATOM	471	C	ALA	29	-14.358	8.096	-14.798	0.00	0.00	C
ATOM	472	O	ALA	29	-14.146	9.144	-14.235	0.00	0.00	O
ATOM	473	CB	ALA	29	-14.878	8.430	-17.219	0.00	0.00	C
ATOM	474	H	ALA	29	-14.328	5.963	-17.062	0.00	0.00	H
ATOM	475	HA	ALA	29	-13.041	8.485	-16.238	0.00	0.00	H
ATOM	476	HB1	ALA	29	-15.797	7.841	-17.220	0.00	0.00	H
ATOM	477	HB2	ALA	29	-15.208	9.431	-16.941	0.00	0.00	H
ATOM	478	HB3	ALA	29	-14.276	8.536	-18.120	0.00	0.00	H
ATOM	479	N	SER	30	-15.250	7.239	-14.258	0.00	0.00	N
ATOM	480	CA	SER	30	-15.895	7.543	-12.941	0.00	0.00	C
ATOM	481	C	SER	30	-14.972	7.007	-11.909	0.00	0.00	C
ATOM	482	O	SER	30	-14.345	5.920	-12.070	0.00	0.00	O
ATOM	483	CB	SER	30	-17.235	6.794	-12.898	0.00	0.00	C
ATOM	484	OG	SER	30	-18.065	7.200	-13.924	0.00	0.00	O
ATOM	485	H	SER	30	-15.456	6.418	-14.809	0.00	0.00	H
ATOM	486	HA	SER	30	-16.169	8.579	-12.748	0.00	0.00	H
ATOM	487	HB2	SER	30	-17.059	5.719	-12.911	0.00	0.00	H
ATOM	488	HB3	SER	30	-17.668	6.989	-11.917	0.00	0.00	H
ATOM	489	HG	SER	30	-18.656	6.445	-13.944	0.00	0.00	H
ATOM	490	N	GLU	31	-14.867	7.718	-10.785	0.00	0.00	N
ATOM	491	CA	GLU	31	-13.741	7.468	-9.839	0.00	0.00	C
ATOM	492	C	GLU	31	-13.810	6.107	-9.071	0.00	0.00	C
ATOM	493	O	GLU	31	-12.790	5.519	-8.632	0.00	0.00	O
ATOM	494	CB	GLU	31	-13.568	8.653	-8.887	0.00	0.00	C
ATOM	495	CG	GLU	31	-14.840	8.765	-8.001	0.00	0.00	C
ATOM	496	CD	GLU	31	-15.028	10.110	-7.334	0.00	0.00	C
ATOM	497	OE1	GLU	31	-14.981	10.234	-6.098	0.00	0.00	O
ATOM	498	OE2	GLU	31	-15.308	11.109	-8.029	0.00	0.00	O

ATOM	499	H	GLU	31	-15.408	8.567	-10.709	0.00	0.00	H
ATOM	500	HA	GLU	31	-12.890	7.320	-10.506	0.00	0.00	H
ATOM	501	HB2	GLU	31	-12.663	8.600	-8.281	0.00	0.00	H
ATOM	502	HB3	GLU	31	-13.550	9.569	-9.477	0.00	0.00	H
ATOM	503	HG2	GLU	31	-15.737	8.522	-8.572	0.00	0.00	H
ATOM	504	HG3	GLU	31	-14.782	7.950	-7.279	0.00	0.00	H
ATOM	505	N	GLU	32	-15.014	5.574	-8.971	0.00	0.00	N
ATOM	506	CA	GLU	32	-15.197	4.167	-8.570	0.00	0.00	C
ATOM	507	C	GLU	32	-14.581	3.061	-9.511	0.00	0.00	C
ATOM	508	O	GLU	32	-13.966	2.092	-8.978	0.00	0.00	O
ATOM	509	CB	GLU	32	-16.707	3.886	-8.312	0.00	0.00	C
ATOM	510	CG	GLU	32	-16.823	2.572	-7.592	0.00	0.00	C
ATOM	511	CD	GLU	32	-18.189	2.398	-6.954	0.00	0.00	C
ATOM	512	OE1	GLU	32	-18.213	2.151	-5.719	0.00	0.00	O
ATOM	513	OE2	GLU	32	-19.178	2.473	-7.728	0.00	0.00	O
ATOM	514	H	GLU	32	-15.811	6.121	-9.262	0.00	0.00	H
ATOM	515	HA	GLU	32	-14.608	4.016	-7.666	0.00	0.00	H
ATOM	516	HB2	GLU	32	-17.127	4.700	-7.722	0.00	0.00	H
ATOM	517	HB3	GLU	32	-17.260	3.885	-9.252	0.00	0.00	H
ATOM	518	HG2	GLU	32	-16.549	1.741	-8.241	0.00	0.00	H
ATOM	519	HG3	GLU	32	-16.115	2.471	-6.768	0.00	0.00	H
ATOM	520	N	GLN	33	-14.596	3.308	-10.796	0.00	0.00	N
ATOM	521	CA	GLN	33	-13.917	2.399	-11.713	0.00	0.00	C
ATOM	522	C	GLN	33	-12.411	2.456	-11.570	0.00	0.00	C
ATOM	523	O	GLN	33	-11.735	1.504	-11.808	0.00	0.00	O
ATOM	524	CB	GLN	33	-14.285	2.767	-13.166	0.00	0.00	C
ATOM	525	CG	GLN	33	-15.742	3.014	-13.498	0.00	0.00	C
ATOM	526	CD	GLN	33	-15.900	3.530	-14.896	0.00	0.00	C
ATOM	527	NE2	GLN	33	-15.856	2.593	-15.886	0.00	0.00	N
ATOM	528	OE1	GLN	33	-15.946	4.690	-15.180	0.00	0.00	O
ATOM	529	H	GLN	33	-15.029	4.129	-11.194	0.00	0.00	H
ATOM	530	HA	GLN	33	-14.288	1.383	-11.562	0.00	0.00	H
ATOM	531	HB2	GLN	33	-13.647	3.608	-13.439	0.00	0.00	H
ATOM	532	HB3	GLN	33	-13.959	2.047	-13.917	0.00	0.00	H
ATOM	533	HG2	GLN	33	-16.196	2.030	-13.376	0.00	0.00	H
ATOM	534	HG3	GLN	33	-16.258	3.696	-12.821	0.00	0.00	H
ATOM	535	1HE2	GLN	33	-15.950	2.861	-16.855	0.00	0.00	H
ATOM	536	2HE2	GLN	33	-15.714	1.606	-15.723	0.00	0.00	H
ATOM	537	N	VAL	34	-11.840	3.554	-11.151	0.00	0.00	N
ATOM	538	CA	VAL	34	-10.382	3.753	-10.717	0.00	0.00	C
ATOM	539	C	VAL	34	-10.129	3.153	-9.353	0.00	0.00	C
ATOM	540	O	VAL	34	-9.023	2.701	-9.102	0.00	0.00	O
ATOM	541	CB	VAL	34	-10.179	5.270	-10.810	0.00	0.00	C
ATOM	542	CG1	VAL	34	-8.799	5.668	-10.227	0.00	0.00	C
ATOM	543	CG2	VAL	34	-10.275	5.774	-12.256	0.00	0.00	C
ATOM	544	H	VAL	34	-12.494	4.299	-10.954	0.00	0.00	H
ATOM	545	HA	VAL	34	-9.742	3.274	-11.458	0.00	0.00	H
ATOM	546	HB	VAL	34	-10.979	5.808	-10.303	0.00	0.00	H
ATOM	547	1HG1	VAL	34	-8.931	5.515	-9.156	0.00	0.00	H
ATOM	548	2HG1	VAL	34	-7.968	5.074	-10.606	0.00	0.00	H
ATOM	549	3HG1	VAL	34	-8.605	6.736	-10.133	0.00	0.00	H
ATOM	550	1HG2	VAL	34	-11.305	5.728	-12.608	0.00	0.00	H
ATOM	551	2HG2	VAL	34	-9.895	6.795	-12.321	0.00	0.00	H
ATOM	552	3HG2	VAL	34	-9.668	5.065	-12.820	0.00	0.00	H
ATOM	553	N	ALA	35	-11.023	3.228	-8.403	0.00	0.00	N
ATOM	554	CA	ALA	35	-10.947	2.407	-7.154	0.00	0.00	C
ATOM	555	C	ALA	35	-10.975	0.835	-7.412	0.00	0.00	C
ATOM	556	O	ALA	35	-10.267	0.171	-6.668	0.00	0.00	O
ATOM	557	CB	ALA	35	-12.108	2.919	-6.254	0.00	0.00	C
ATOM	558	H	ALA	35	-11.899	3.661	-8.656	0.00	0.00	H
ATOM	559	HA	ALA	35	-10.026	2.687	-6.641	0.00	0.00	H
ATOM	560	HB1	ALA	35	-11.837	3.929	-5.947	0.00	0.00	H
ATOM	561	HB2	ALA	35	-13.091	2.801	-6.708	0.00	0.00	H
ATOM	562	HB3	ALA	35	-12.033	2.281	-5.374	0.00	0.00	H
ATOM	563	N	GLN	36	-11.644	0.419	-8.497	0.00	0.00	N
ATOM	564	CA	GLN	36	-11.656	-0.917	-9.088	0.00	0.00	C
ATOM	565	C	GLN	36	-10.290	-1.348	-9.659	0.00	0.00	C
ATOM	566	O	GLN	36	-9.760	-2.327	-9.221	0.00	0.00	O
ATOM	567	CB	GLN	36	-12.889	-1.174	-10.055	0.00	0.00	C
ATOM	568	CG	GLN	36	-13.239	-2.565	-10.428	0.00	0.00	C
ATOM	569	CD	GLN	36	-14.362	-2.709	-11.449	0.00	0.00	C
ATOM	570	NE2	GLN	36	-14.152	-2.433	-12.712	0.00	0.00	N
ATOM	571	OE1	GLN	36	-15.532	-2.911	-11.120	0.00	0.00	O
ATOM	572	H	GLN	36	-12.078	1.138	-9.057	0.00	0.00	H
ATOM	573	HA	GLN	36	-11.854	-1.573	-8.240	0.00	0.00	H
ATOM	574	HB2	GLN	36	-13.846	-0.856	-9.644	0.00	0.00	H
ATOM	575	HB3	GLN	36	-12.711	-0.658	-10.999	0.00	0.00	H
ATOM	576	HG2	GLN	36	-12.355	-3.028	-10.866	0.00	0.00	H
ATOM	577	HG3	GLN	36	-13.513	-3.175	-9.567	0.00	0.00	H
ATOM	578	1HE2	GLN	36	-13.242	-2.139	-13.037	0.00	0.00	H
ATOM	579	2HE2	GLN	36	-14.844	-2.548	-13.438	0.00	0.00	H
ATOM	580	N	ASP	37	-9.720	-0.457	-10.536	0.00	0.00	N
ATOM	581	CA	ASP	37	-8.384	-0.670	-11.079	0.00	0.00	C
ATOM	582	C	ASP	37	-7.279	-0.450	-10.034	0.00	0.00	C
ATOM	583	O	ASP	37	-6.239	-1.101	-10.030	0.00	0.00	O
ATOM	584	CB	ASP	37	-8.252	0.382	-12.230	0.00	0.00	C
ATOM	585	CG	ASP	37	-9.006	0.041	-13.509	0.00	0.00	C
ATOM	586	OD1	ASP	37	-9.721	0.950	-14.063	0.00	0.00	O
ATOM	587	OD2	ASP	37	-8.855	-1.095	-14.044	0.00	0.00	O
ATOM	588	H	ASP	37	-10.308	0.250	-10.955	0.00	0.00	H
ATOM	589	HA	ASP	37	-8.238	-1.635	-11.564	0.00	0.00	H
ATOM	590	HB2	ASP	37	-8.419	1.400	-11.877	0.00	0.00	H
ATOM	591	HB3	ASP	37	-7.215	0.368	-12.563	0.00	0.00	H
ATOM	592	N	THR	38	-7.586	0.397	-9.102	0.00	0.00	N
ATOM	593	CA	THR	38	-6.569	0.475	-7.916	0.00	0.00	C
ATOM	594	C	THR	38	-6.456	-0.763	-6.950	0.00	0.00	C
ATOM	595	O	THR	38	-5.380	-1.041	-6.395	0.00	0.00	O
ATOM	596	CB	THR	38	-6.869	1.655	-6.943	0.00	0.00	C
ATOM	597	CG2	THR	38	-5.849	1.899	-5.810	0.00	0.00	C
ATOM	598	OG1	THR	38	-6.768	2.835	-7.772	0.00	0.00	O
ATOM	599	H	THR	38	-8.438	0.940	-9.077	0.00	0.00	H
ATOM	600	HA	THR	38	-5.578	0.541	-8.366	0.00	0.00	H
ATOM	601	HB	THR	38	-7.908	1.706	-6.620	0.00	0.00	H
ATOM	602	HG1	THR	38	-7.539	2.819	-8.346	0.00	0.00	H
ATOM	603	1HG2	THR	38	-6.047	1.257	-4.953	0.00	0.00	H

ATOM	604	ZHG2	THR	38	-4.886	1.568	-6.196	0.00	0.00	H
ATOM	605	3HG2	THR	38	-5.870	2.967	-5.593	0.00	0.00	H
ATOM	606	N	GLU	39	-7.548	-1.436	-6.634	0.00	0.00	N
ATOM	607	CA	GLU	39	-7.511	-2.788	-6.012	0.00	0.00	C
ATOM	608	C	GLU	39	-6.567	-3.774	-6.740	0.00	0.00	C
ATOM	609	O	GLU	39	-5.805	-4.558	-6.142	0.00	0.00	O
ATOM	610	CB	GLU	39	-8.936	-3.428	-5.864	0.00	0.00	C
ATOM	611	CG	GLU	39	-8.971	-4.140	-4.491	0.00	0.00	C
ATOM	612	CD	GLU	39	-10.273	-4.880	-4.287	0.00	0.00	C
ATOM	613	OE1	GLU	39	-10.382	-6.082	-4.587	0.00	0.00	O
ATOM	614	OE2	GLU	39	-11.301	-4.195	-4.116	0.00	0.00	O
ATOM	615	H	GLU	39	-8.480	-1.112	-6.850	0.00	0.00	H
ATOM	616	HA	GLU	39	-7.170	-2.626	-4.989	0.00	0.00	H
ATOM	617	HB2	GLU	39	-9.634	-2.592	-5.934	0.00	0.00	H
ATOM	618	HB3	GLU	39	-9.157	-4.143	-6.656	0.00	0.00	H
ATOM	619	HG2	GLU	39	-8.175	-4.882	-4.418	0.00	0.00	H
ATOM	620	HG3	GLU	39	-8.902	-3.397	-3.695	0.00	0.00	H
ATOM	621	N	GLU	40	-6.649	-3.834	-8.066	0.00	0.00	N
ATOM	622	CA	GLU	40	-5.842	-4.769	-8.839	0.00	0.00	C
ATOM	623	C	GLU	40	-4.318	-4.327	-8.772	0.00	0.00	C
ATOM	624	O	GLU	40	-3.485	-5.182	-8.547	0.00	0.00	O
ATOM	625	CB	GLU	40	-6.208	-4.721	-10.330	0.00	0.00	C
ATOM	626	CG	GLU	40	-7.621	-5.114	-10.602	0.00	0.00	C
ATOM	627	CD	GLU	40	-8.084	-6.471	-9.939	0.00	0.00	C
ATOM	628	OE1	GLU	40	-7.382	-7.501	-9.789	0.00	0.00	O
ATOM	629	OE2	GLU	40	-9.222	-6.500	-9.508	0.00	0.00	O
ATOM	630	H	GLU	40	-7.205	-3.097	-8.476	0.00	0.00	H
ATOM	631	HA	GLU	40	-6.017	-5.748	-8.394	0.00	0.00	H
ATOM	632	HB2	GLU	40	-6.115	-3.663	-10.580	0.00	0.00	H
ATOM	633	HB3	GLU	40	-5.469	-5.259	-10.924	0.00	0.00	H
ATOM	634	HG2	GLU	40	-8.304	-4.333	-10.270	0.00	0.00	H
ATOM	635	HG3	GLU	40	-7.855	-5.178	-11.664	0.00	0.00	H
ATOM	636	N	VAL	41	-3.990	-3.031	-8.836	0.00	0.00	N
ATOM	637	CA	VAL	41	-2.596	-2.593	-8.630	0.00	0.00	C
ATOM	638	C	VAL	41	-2.040	-2.956	-7.240	0.00	0.00	C
ATOM	639	O	VAL	41	-0.914	-3.425	-7.105	0.00	0.00	O
ATOM	640	CB	VAL	41	-2.389	-1.102	-8.898	0.00	0.00	C
ATOM	641	CG1	VAL	41	-1.006	-0.533	-8.507	0.00	0.00	C
ATOM	642	CG2	VAL	41	-2.593	-0.786	-10.363	0.00	0.00	C
ATOM	643	H	VAL	41	-4.744	-2.392	-9.043	0.00	0.00	H
ATOM	644	HA	VAL	41	-2.039	-3.155	-9.381	0.00	0.00	H
ATOM	645	HB	VAL	41	-3.103	-0.482	-8.357	0.00	0.00	H
ATOM	646	1HG1	VAL	41	-0.272	-1.286	-8.794	0.00	0.00	H
ATOM	647	2HG1	VAL	41	-0.921	0.489	-8.875	0.00	0.00	H
ATOM	648	3HG1	VAL	41	-0.904	-0.408	-7.429	0.00	0.00	H
ATOM	649	1HG2	VAL	41	-1.817	-1.099	-11.062	0.00	0.00	H
ATOM	650	2HG2	VAL	41	-3.584	-1.152	-10.635	0.00	0.00	H
ATOM	651	3HG2	VAL	41	-2.634	0.297	-10.464	0.00	0.00	H
ATOM	652	N	PHE	42	-2.799	-2.703	-6.200	0.00	0.00	N
ATOM	653	CA	PHE	42	-2.463	-2.951	-4.825	0.00	0.00	C
ATOM	654	C	PHE	42	-2.203	-4.452	-4.594	0.00	0.00	C
ATOM	655	O	PHE	42	-1.113	-4.899	-4.261	0.00	0.00	O
ATOM	656	CB	PHE	42	-3.538	-2.362	-3.915	0.00	0.00	C
ATOM	657	CG	PHE	42	-3.202	-2.383	-2.425	0.00	0.00	C
ATOM	658	CD1	PHE	42	-4.290	-2.580	-1.508	0.00	0.00	C
ATOM	659	CD2	PHE	42	-1.893	-2.307	-1.927	0.00	0.00	C
ATOM	660	CE1	PHE	42	-4.101	-2.622	-0.098	0.00	0.00	C
ATOM	661	CE2	PHE	42	-1.615	-2.353	-0.556	0.00	0.00	C
ATOM	662	CZ	PHE	42	-2.766	-2.455	0.319	0.00	0.00	C
ATOM	663	H	PHE	42	-3.660	-2.194	-6.343	0.00	0.00	H
ATOM	664	HA	PHE	42	-1.538	-2.400	-4.658	0.00	0.00	H
ATOM	665	HB2	PHE	42	-3.782	-1.362	-4.274	0.00	0.00	H
ATOM	666	HB3	PHE	42	-4.415	-2.984	-4.085	0.00	0.00	H
ATOM	667	HD1	PHE	42	-5.300	-2.658	-1.886	0.00	0.00	H
ATOM	668	HD2	PHE	42	-1.020	-2.184	-2.553	0.00	0.00	H
ATOM	669	HE1	PHE	42	-4.961	-2.827	0.523	0.00	0.00	H
ATOM	670	HE2	PHE	42	-0.595	-2.322	-0.203	0.00	0.00	H
ATOM	671	HZ	PHE	42	-2.586	-2.478	1.383	0.00	0.00	H
ATOM	672	N	ARG	43	-3.160	-5.277	-4.997	0.00	0.00	N
ATOM	673	CA	ARG	43	-3.033	-6.742	-4.953	0.00	0.00	C
ATOM	674	C	ARG	43	-1.922	-7.318	-5.799	0.00	0.00	C
ATOM	675	O	ARG	43	-1.345	-8.331	-5.395	0.00	0.00	O
ATOM	676	CB	ARG	43	-4.418	-7.454	-5.190	0.00	0.00	C
ATOM	677	CG	ARG	43	-5.328	-7.368	-3.973	0.00	0.00	C
ATOM	678	CD	ARG	43	-6.609	-8.185	-4.165	0.00	0.00	C
ATOM	679	NE	ARG	43	-7.650	-7.497	-4.947	0.00	0.00	N
ATOM	680	CZ	ARG	43	-7.848	-7.496	-6.220	0.00	0.00	C
ATOM	681	NH1	ARG	43	-7.139	-8.121	-7.041	0.00	0.00	N
ATOM	682	NH2	ARG	43	-8.776	-6.725	-6.795	0.00	0.00	N
ATOM	683	H	ARG	43	-4.006	-4.965	-5.450	0.00	0.00	H
ATOM	684	HA	ARG	43	-2.740	-7.045	-3.949	0.00	0.00	H
ATOM	685	HB2	ARG	43	-4.902	-6.988	-6.050	0.00	0.00	H
ATOM	686	HB3	ARG	43	-4.307	-8.529	-5.326	0.00	0.00	H
ATOM	687	HG2	ARG	43	-4.884	-7.657	-3.021	0.00	0.00	H
ATOM	688	HG3	ARG	43	-5.584	-6.323	-3.795	0.00	0.00	H
ATOM	689	HD2	ARG	43	-6.482	-9.207	-4.526	0.00	0.00	H
ATOM	690	HD3	ARG	43	-7.082	-8.269	-3.188	0.00	0.00	H
ATOM	691	HE	ARG	43	-8.275	-6.865	-4.469	0.00	0.00	H
ATOM	692	1HH1	ARG	43	-6.428	-8.724	-6.655	0.00	0.00	H
ATOM	693	2HH1	ARG	43	-7.383	-8.040	-8.018	0.00	0.00	H
ATOM	694	1HH2	ARG	43	-9.572	-6.430	-6.249	0.00	0.00	H
ATOM	695	2HH2	ARG	43	-8.989	-6.756	-7.782	0.00	0.00	H
ATOM	696	N	SER	44	-1.516	-6.601	-6.947	0.00	0.00	N
ATOM	697	CA	SER	44	-0.351	-6.965	-7.788	0.00	0.00	C
ATOM	698	C	SER	44	0.930	-6.675	-7.077	0.00	0.00	C
ATOM	699	O	SER	44	1.845	-7.487	-7.096	0.00	0.00	O
ATOM	700	CB	SER	44	-0.350	-6.293	-9.169	0.00	0.00	C
ATOM	701	OG	SER	44	-1.512	-6.548	-9.922	0.00	0.00	O
ATOM	702	H	SER	44	-2.101	-5.800	-7.140	0.00	0.00	H
ATOM	703	HA	SER	44	-0.428	-8.031	-8.002	0.00	0.00	H
ATOM	704	HB2	SER	44	-0.305	-5.205	-9.121	0.00	0.00	H
ATOM	705	HB3	SER	44	0.460	-6.743	-9.744	0.00	0.00	H
ATOM	706	HG	SER	44	-2.303	-6.073	-9.657	0.00	0.00	H
ATOM	707	N	TYR	45	1.073	-5.499	-6.421	0.00	0.00	N
ATOM	708	CA	TYR	45	2.179	-5.052	-5.588	0.00	0.00	C

ATOM	709	C	TYR	45	2.290	-6.003	-4.345	0.00	0.00	C
ATOM	710	O	TYR	45	3.369	-6.446	-4.035	0.00	0.00	O
ATOM	711	CB	TYR	45	2.056	-3.585	-5.193	0.00	0.00	C
ATOM	712	CG	TYR	45	2.886	-3.264	-3.989	0.00	0.00	C
ATOM	713	CD1	TYR	45	4.246	-3.030	-4.140	0.00	0.00	C
ATOM	714	CD2	TYR	45	2.254	-3.200	-2.721	0.00	0.00	C
ATOM	715	CE1	TYR	45	4.975	-2.712	-2.976	0.00	0.00	C
ATOM	716	CE2	TYR	45	2.928	-2.828	-1.557	0.00	0.00	C
ATOM	717	CZ	TYR	45	4.316	-2.627	-1.730	0.00	0.00	C
ATOM	718	OH	TYR	45	4.993	-2.494	-0.585	0.00	0.00	O
ATOM	719	H	TYR	45	0.318	-4.873	-6.659	0.00	0.00	H
ATOM	720	HA	TYR	45	3.113	-5.155	-6.141	0.00	0.00	H
ATOM	721	HB2	TYR	45	2.345	-2.860	-5.952	0.00	0.00	H
ATOM	722	HB3	TYR	45	1.004	-3.470	-4.930	0.00	0.00	H
ATOM	723	HD1	TYR	45	4.731	-3.127	-5.100	0.00	0.00	H
ATOM	724	HD2	TYR	45	1.226	-3.508	-2.601	0.00	0.00	H
ATOM	725	HE1	TYR	45	6.016	-2.423	-2.999	0.00	0.00	H
ATOM	726	HE2	TYR	45	2.470	-2.849	-0.580	0.00	0.00	H
ATOM	727	HH	TYR	45	5.938	-2.360	-0.692	0.00	0.00	H
ATOM	728	N	VAL	46	1.208	-6.434	-3.725	0.00	0.00	N
ATOM	729	CA	VAL	46	1.312	-7.277	-2.568	0.00	0.00	C
ATOM	730	C	VAL	46	1.729	-8.682	-3.007	0.00	0.00	C
ATOM	731	O	VAL	46	2.660	-9.146	-2.353	0.00	0.00	O
ATOM	732	CB	VAL	46	-0.035	-7.357	-1.859	0.00	0.00	C
ATOM	733	CG1	VAL	46	-0.219	-8.529	-0.882	0.00	0.00	C
ATOM	734	CG2	VAL	46	-0.326	-6.079	-1.064	0.00	0.00	C
ATOM	735	H	VAL	46	0.329	-6.023	-4.009	0.00	0.00	H
ATOM	736	HA	VAL	46	2.072	-6.944	-1.860	0.00	0.00	H
ATOM	737	HB	VAL	46	-0.807	-7.315	-2.626	0.00	0.00	H
ATOM	738	1HG1	VAL	46	-0.699	-9.386	-1.358	0.00	0.00	H
ATOM	739	2HG1	VAL	46	0.723	-8.820	-0.417	0.00	0.00	H
ATOM	740	3HG1	VAL	46	-0.919	-8.387	-0.059	0.00	0.00	H
ATOM	741	1HG2	VAL	46	0.442	-5.946	-0.301	0.00	0.00	H
ATOM	742	2HG2	VAL	46	-0.283	-5.218	-1.730	0.00	0.00	H
ATOM	743	3HG2	VAL	46	-1.267	-6.061	-0.513	0.00	0.00	H
ATOM	744	N	PHE	47	1.182	-9.256	-4.123	0.00	0.00	N
ATOM	745	CA	PHE	47	1.845	-10.432	-4.718	0.00	0.00	C
ATOM	746	C	PHE	47	3.391	-10.301	-5.012	0.00	0.00	C
ATOM	747	O	PHE	47	4.156	-11.041	-4.334	0.00	0.00	O
ATOM	748	CB	PHE	47	1.023	-10.798	-5.964	0.00	0.00	C
ATOM	749	CG	PHE	47	1.376	-12.141	-6.453	0.00	0.00	C
ATOM	750	CD1	PHE	47	1.163	-13.264	-5.658	0.00	0.00	C
ATOM	751	CD2	PHE	47	2.009	-12.267	-7.710	0.00	0.00	C
ATOM	752	CE1	PHE	47	1.620	-14.562	-6.026	0.00	0.00	C
ATOM	753	CE2	PHE	47	2.399	-13.581	-8.095	0.00	0.00	C
ATOM	754	CZ	PHE	47	2.297	-14.714	-7.230	0.00	0.00	C
ATOM	755	H	PHE	47	0.348	-8.881	-4.552	0.00	0.00	H
ATOM	756	HA	PHE	47	1.696	-11.177	-3.936	0.00	0.00	H
ATOM	757	HB2	PHE	47	-0.061	-10.741	-5.870	0.00	0.00	H
ATOM	758	HB3	PHE	47	1.189	-10.049	-6.738	0.00	0.00	H
ATOM	759	HD1	PHE	47	0.624	-13.170	-4.726	0.00	0.00	H
ATOM	760	HD2	PHE	47	2.111	-11.425	-8.380	0.00	0.00	H
ATOM	761	HE1	PHE	47	1.489	-15.502	-5.512	0.00	0.00	H
ATOM	762	HE2	PHE	47	2.844	-13.739	-9.068	0.00	0.00	H
ATOM	763	HZ	PHE	47	2.706	-15.635	-7.617	0.00	0.00	H
ATOM	764	N	TYR	48	3.770	-9.390	-5.897	0.00	0.00	N
ATOM	765	CA	TYR	48	5.146	-9.302	-6.310	0.00	0.00	C
ATOM	766	C	TYR	48	6.177	-9.097	-5.258	0.00	0.00	C
ATOM	767	O	TYR	48	7.182	-9.834	-5.238	0.00	0.00	O
ATOM	768	CB	TYR	48	5.344	-8.365	-7.540	0.00	0.00	C
ATOM	769	CG	TYR	48	4.876	-8.983	-8.818	0.00	0.00	C
ATOM	770	CD1	TYR	48	5.281	-10.291	-9.145	0.00	0.00	C
ATOM	771	CD2	TYR	48	3.896	-8.387	-9.621	0.00	0.00	C
ATOM	772	CE1	TYR	48	4.718	-10.959	-10.287	0.00	0.00	C
ATOM	773	CE2	TYR	48	3.180	-9.004	-10.654	0.00	0.00	C
ATOM	774	CZ	TYR	48	3.567	-10.377	-10.958	0.00	0.00	C
ATOM	775	OH	TYR	48	2.962	-11.123	-11.898	0.00	0.00	O
ATOM	776	H	TYR	48	3.128	-8.803	-6.411	0.00	0.00	H
ATOM	777	HA	TYR	48	5.385	-10.301	-6.678	0.00	0.00	H
ATOM	778	HB2	TYR	48	4.944	-7.364	-7.377	0.00	0.00	H
ATOM	779	HB3	TYR	48	6.407	-8.200	-7.715	0.00	0.00	H
ATOM	780	HD1	TYR	48	6.083	-10.744	-8.581	0.00	0.00	H
ATOM	781	HD2	TYR	48	3.612	-7.389	-9.319	0.00	0.00	H
ATOM	782	HE1	TYR	48	5.126	-11.889	-10.653	0.00	0.00	H
ATOM	783	HE2	TYR	48	2.265	-8.499	-10.924	0.00	0.00	H
ATOM	784	HH	TYR	48	3.444	-11.953	-11.863	0.00	0.00	H
ATOM	785	N	ARG	49	5.894	-8.197	-4.311	0.00	0.00	N
ATOM	786	CA	ARG	49	6.769	-8.100	-3.131	0.00	0.00	C
ATOM	787	C	ARG	49	6.704	-9.343	-2.219	0.00	0.00	C
ATOM	788	O	ARG	49	7.777	-9.734	-1.722	0.00	0.00	O
ATOM	789	CB	ARG	49	6.364	-6.708	-2.402	0.00	0.00	C
ATOM	790	CG	ARG	49	7.259	-6.541	-1.165	0.00	0.00	C
ATOM	791	CD	ARG	49	8.717	-6.396	-1.485	0.00	0.00	C
ATOM	792	NE	ARG	49	9.510	-6.367	-0.174	0.00	0.00	N
ATOM	793	CZ	ARG	49	10.779	-6.726	-0.096	0.00	0.00	C
ATOM	794	NH1	ARG	49	11.463	-7.056	-1.076	0.00	0.00	N
ATOM	795	NH2	ARG	49	11.412	-6.764	0.998	0.00	0.00	N
ATOM	796	H	ARG	49	5.029	-7.702	-4.476	0.00	0.00	H
ATOM	797	HA	ARG	49	7.810	-7.996	-3.436	0.00	0.00	H
ATOM	798	HB2	ARG	49	6.545	-5.866	-3.071	0.00	0.00	H
ATOM	799	HB3	ARG	49	5.297	-6.771	-2.191	0.00	0.00	H
ATOM	800	HG2	ARG	49	6.783	-5.749	-0.586	0.00	0.00	H
ATOM	801	HG3	ARG	49	7.194	-7.371	-0.463	0.00	0.00	H
ATOM	802	HD2	ARG	49	9.006	-7.316	-1.991	0.00	0.00	H
ATOM	803	HD3	ARG	49	8.964	-5.504	-2.060	0.00	0.00	H
ATOM	804	HE	ARG	49	9.031	-6.036	0.652	0.00	0.00	H
ATOM	805	1HH1	ARG	49	11.111	-7.036	-2.023	0.00	0.00	H
ATOM	806	2HH1	ARG	49	12.324	-7.550	-0.895	0.00	0.00	H
ATOM	807	1HH2	ARG	49	10.849	-6.926	1.822	0.00	0.00	H
ATOM	808	2HH2	ARG	49	12.383	-7.033	1.052	0.00	0.00	H
ATOM	809	N	HIP	50	5.567	-10.064	-2.001	0.00	0.00	N
ATOM	810	CA	HIP	50	5.561	-11.242	-1.098	0.00	0.00	C
ATOM	811	C	HIP	50	6.338	-12.388	-1.716	0.00	0.00	C
ATOM	812	O	HIP	50	7.124	-13.006	-0.985	0.00	0.00	O
ATOM	813	CB	HIP	50	4.111	-11.707	-0.924	0.00	0.00	C

ATOM	814	CG	HIP	50	3.810	-12.694	0.110	0.00	0.00	C
ATOM	815	CD2	HIP	50	4.142	-12.671	1.455	0.00	0.00	C
ATOM	816	ND1	HIP	50	2.972	-13.728	-0.016	0.00	0.00	N
ATOM	817	CE1	HIP	50	2.844	-14.332	1.191	0.00	0.00	C
ATOM	818	NE2	HIP	50	3.584	-13.688	2.124	0.00	0.00	N
ATOM	819	H	HIP	50	4.702	-9.669	-2.341	0.00	0.00	H
ATOM	820	HA	HIP	50	5.993	-11.027	-0.121	0.00	0.00	H
ATOM	821	HB2	HIP	50	3.602	-10.795	-0.609	0.00	0.00	H
ATOM	822	HB3	HIP	50	3.812	-12.118	-1.887	0.00	0.00	H
ATOM	823	HD1	HIP	50	2.506	-14.007	-0.867	0.00	0.00	H
ATOM	824	HD2	HIP	50	4.623	-11.827	1.926	0.00	0.00	H
ATOM	825	HE1	HIP	50	2.189	-15.165	1.397	0.00	0.00	H
ATOM	826	HE2	HIP	50	3.762	-14.027	3.059	0.00	0.00	H
ATOM	827	N	GLN	51	6.253	-12.557	-3.026	0.00	0.00	N
ATOM	828	CA	GLN	51	7.121	-13.557	-3.715	0.00	0.00	C
ATOM	829	C	GLN	51	8.623	-13.397	-3.499	0.00	0.00	C
ATOM	830	O	GLN	51	9.246	-14.433	-3.386	0.00	0.00	O
ATOM	831	CB	GLN	51	6.741	-13.587	-5.178	0.00	0.00	C
ATOM	832	CG	GLN	51	5.336	-14.232	-5.448	0.00	0.00	C
ATOM	833	CD	GLN	51	4.982	-15.422	-4.470	0.00	0.00	C
ATOM	834	NE2	GLN	51	5.448	-16.607	-4.859	0.00	0.00	N
ATOM	835	OE1	GLN	51	4.373	-15.224	-3.491	0.00	0.00	O
ATOM	836	H	GLN	51	5.461	-12.162	-3.513	0.00	0.00	H
ATOM	837	HA	GLN	51	6.916	-14.504	-3.217	0.00	0.00	H
ATOM	838	HB2	GLN	51	6.682	-12.560	-5.535	0.00	0.00	H
ATOM	839	HB3	GLN	51	7.496	-14.190	-5.684	0.00	0.00	H
ATOM	840	HG2	GLN	51	4.642	-13.400	-5.340	0.00	0.00	H
ATOM	841	HG3	GLN	51	5.176	-14.521	-6.488	0.00	0.00	H
ATOM	842	1HE2	GLN	51	5.380	-17.377	-4.207	0.00	0.00	H
ATOM	843	2HE2	GLN	51	5.823	-16.828	-5.769	0.00	0.00	H
ATOM	844	N	GLN	52	9.189	-12.225	-3.457	0.00	0.00	N
ATOM	845	CA	GLN	52	10.575	-11.946	-3.214	0.00	0.00	C
ATOM	846	C	GLN	52	10.872	-12.305	-1.712	0.00	0.00	C
ATOM	847	O	GLN	52	11.882	-12.927	-1.287	0.00	0.00	O
ATOM	848	CB	GLN	52	10.861	-10.408	-3.371	0.00	0.00	C
ATOM	849	CG	GLN	52	10.614	-9.685	-4.710	0.00	0.00	C
ATOM	850	CD	GLN	52	10.734	-8.119	-4.652	0.00	0.00	C
ATOM	851	NE2	GLN	52	10.548	-7.494	-5.796	0.00	0.00	N
ATOM	852	OE1	GLN	52	10.941	-7.513	-3.641	0.00	0.00	O
ATOM	853	H	GLN	52	8.600	-11.472	-3.779	0.00	0.00	H
ATOM	854	HA	GLN	52	11.197	-12.556	-3.871	0.00	0.00	H
ATOM	855	HB2	GLN	52	10.237	-9.945	-2.606	0.00	0.00	H
ATOM	856	HB3	GLN	52	11.894	-10.119	-3.172	0.00	0.00	H
ATOM	857	HG2	GLN	52	11.413	-10.037	-5.363	0.00	0.00	H
ATOM	858	HG3	GLN	52	9.622	-9.982	-5.054	0.00	0.00	H
ATOM	859	1HE2	GLN	52	10.716	-6.499	-5.861	0.00	0.00	H
ATOM	860	2HE2	GLN	52	10.771	-7.983	-6.652	0.00	0.00	H
ATOM	861	N	GLU	53	10.013	-11.984	-0.811	0.00	0.00	N
ATOM	862	CA	GLU	53	10.250	-12.211	0.622	0.00	0.00	C
ATOM	863	C	GLU	53	9.908	-13.669	1.067	0.00	0.00	C
ATOM	864	O	GLU	53	10.425	-14.167	2.069	0.00	0.00	O
ATOM	865	CB	GLU	53	9.334	-11.210	1.393	0.00	0.00	C
ATOM	866	CG	GLU	53	9.809	-9.833	1.088	0.00	0.00	C
ATOM	867	CD	GLU	53	9.124	-8.803	2.061	0.00	0.00	C
ATOM	868	OE1	GLU	53	9.881	-8.151	2.834	0.00	0.00	O
ATOM	869	OE2	GLU	53	7.916	-8.473	1.990	0.00	0.00	O
ATOM	870	H	GLU	53	9.195	-11.451	-1.069	0.00	0.00	H
ATOM	871	HA	GLU	53	11.287	-12.050	0.919	0.00	0.00	H
ATOM	872	HB2	GLU	53	8.278	-11.400	1.201	0.00	0.00	H
ATOM	873	HB3	GLU	53	9.421	-11.319	2.475	0.00	0.00	H
ATOM	874	HG2	GLU	53	10.888	-9.926	1.207	0.00	0.00	H
ATOM	875	HG3	GLU	53	9.523	-9.515	0.086	0.00	0.00	H
ATOM	876	N	GLN	54	9.123	-14.380	0.302	0.00	0.00	N
ATOM	877	CA	GLN	54	9.093	-15.841	0.388	0.00	0.00	C
ATOM	878	C	GLN	54	10.324	-16.454	-0.250	0.00	0.00	C
ATOM	879	O	GLN	54	10.613	-17.648	-0.079	0.00	0.00	O
ATOM	880	CB	GLN	54	7.878	-16.437	-0.308	0.00	0.00	C
ATOM	881	CG	GLN	54	6.500	-16.357	0.497	0.00	0.00	C
ATOM	882	CD	GLN	54	6.483	-17.255	1.739	0.00	0.00	C
ATOM	883	NE2	GLN	54	5.967	-18.466	1.678	0.00	0.00	N
ATOM	884	OE1	GLN	54	7.014	-16.952	2.817	0.00	0.00	O
ATOM	885	H	GLN	54	8.502	-13.978	-0.385	0.00	0.00	H
ATOM	886	HA	GLN	54	9.216	-16.241	1.394	0.00	0.00	H
ATOM	887	HB2	GLN	54	7.799	-15.910	-1.260	0.00	0.00	H
ATOM	888	HB3	GLN	54	7.976	-17.506	-0.492	0.00	0.00	H
ATOM	889	HG2	GLN	54	6.483	-15.319	0.829	0.00	0.00	H
ATOM	890	HG3	GLN	54	5.669	-16.626	-0.155	0.00	0.00	H
ATOM	891	1HE2	GLN	54	5.803	-19.009	2.515	0.00	0.00	H
ATOM	892	2HE2	GLN	54	5.478	-18.760	0.845	0.00	0.00	H
ATOM	893	N	GLU	55	11.129	-15.652	-0.901	0.00	0.00	N
ATOM	894	CA	GLU	55	12.409	-16.007	-1.465	0.00	0.00	C
ATOM	895	C	GLU	55	13.476	-15.299	-0.545	0.00	0.00	C
ATOM	896	O	GLU	55	14.605	-15.047	-1.001	0.00	0.00	O
ATOM	897	CB	GLU	55	12.373	-15.621	-2.950	0.00	0.00	C
ATOM	898	CG	GLU	55	13.510	-16.179	-3.749	0.00	0.00	C
ATOM	899	CD	GLU	55	13.722	-15.563	-5.098	0.00	0.00	C
ATOM	900	OE1	GLU	55	13.406	-16.205	-6.148	0.00	0.00	O
ATOM	901	OE2	GLU	55	14.259	-14.402	-5.237	0.00	0.00	O
ATOM	902	H	GLU	55	10.942	-14.659	-0.923	0.00	0.00	H
ATOM	903	HA	GLU	55	12.515	-17.082	-1.328	0.00	0.00	H
ATOM	904	HB2	GLU	55	11.499	-16.080	-3.413	0.00	0.00	H
ATOM	905	HB3	GLU	55	12.359	-14.548	-3.142	0.00	0.00	H
ATOM	906	HG2	GLU	55	14.464	-16.040	-3.239	0.00	0.00	H
ATOM	907	HG3	GLU	55	13.360	-17.255	-3.836	0.00	0.00	H
ATOM	908	N	ALA	56	13.248	-15.232	0.742	0.00	0.00	N
ATOM	909	CA	ALA	56	14.249	-14.798	1.679	0.00	0.00	C
ATOM	910	C	ALA	56	15.430	-15.755	1.822	0.00	0.00	C
ATOM	911	O	ALA	56	16.512	-15.260	2.050	0.00	0.00	O
ATOM	912	CB	ALA	56	13.736	-14.512	3.059	0.00	0.00	C
ATOM	913	H	ALA	56	12.332	-15.455	1.100	0.00	0.00	H
ATOM	914	HA	ALA	56	14.576	-13.867	1.216	0.00	0.00	H
ATOM	915	HB1	ALA	56	14.485	-14.002	3.665	0.00	0.00	H
ATOM	916	HB2	ALA	56	12.806	-13.944	3.056	0.00	0.00	H
ATOM	917	HB3	ALA	56	13.470	-15.450	3.547	0.00	0.00	H
ATOM	918	N	GLU	57	15.246	-17.022	1.551	0.00	0.00	N

ATOM	919	CA	GLU	57	16.372	-18.052	1.531	0.00	0.00	C
ATOM	920	C	GLU	57	17.346	-17.962	0.336	0.00	0.00	C
ATOM	921	O	GLU	57	18.404	-18.619	0.219	0.00	0.00	O
ATOM	922	CB	GLU	57	15.784	-19.422	1.767	0.00	0.00	C
ATOM	923	CG	GLU	57	16.607	-20.749	1.996	0.00	0.00	C
ATOM	924	CD	GLU	57	17.771	-20.520	2.950	0.00	0.00	C
ATOM	925	OE1	GLU	57	18.979	-20.684	2.602	0.00	0.00	O
ATOM	926	OE2	GLU	57	17.528	-20.205	4.133	0.00	0.00	O
ATOM	927	H	GLU	57	14.300	-17.341	1.399	0.00	0.00	H
ATOM	928	HA	GLU	57	16.973	-17.803	2.407	0.00	0.00	H
ATOM	929	HB2	GLU	57	15.154	-19.323	2.651	0.00	0.00	H
ATOM	930	HB3	GLU	57	15.224	-19.552	0.841	0.00	0.00	H
ATOM	931	HG2	GLU	57	15.942	-21.509	2.404	0.00	0.00	H
ATOM	932	HG3	GLU	57	17.023	-21.035	1.030	0.00	0.00	H
ATOM	933	N	GLY	58	16.902	-17.205	-0.675	0.00	0.00	N
ATOM	934	CA	GLY	58	17.474	-17.335	-2.070	0.00	0.00	C
ATOM	935	C	GLY	58	16.599	-18.230	-2.998	0.00	0.00	C
ATOM	936	O	GLY	58	16.763	-18.268	-4.199	0.00	0.00	O
ATOM	937	H	GLY	58	16.038	-16.712	-0.496	0.00	0.00	H
ATOM	938	HA2	GLY	58	17.551	-16.331	-2.489	0.00	0.00	H
ATOM	939	HA3	GLY	58	18.446	-17.827	-2.083	0.00	0.00	H
ATOM	940	N	VAL	59	15.581	-18.845	-2.429	0.00	0.00	N
ATOM	941	CA	VAL	59	14.646	-19.747	-3.169	0.00	0.00	C
ATOM	942	C	VAL	59	13.299	-19.729	-2.529	0.00	0.00	C
ATOM	943	O	VAL	59	13.122	-19.534	-1.325	0.00	0.00	O
ATOM	944	CB	VAL	59	15.180	-21.253	-3.139	0.00	0.00	C
ATOM	945	CG1	VAL	59	16.285	-21.553	-4.137	0.00	0.00	C
ATOM	946	CG2	VAL	59	15.814	-21.738	-1.796	0.00	0.00	C
ATOM	947	H	VAL	59	15.397	-18.844	-1.436	0.00	0.00	H
ATOM	948	HA	VAL	59	14.575	-19.550	-4.239	0.00	0.00	H
ATOM	949	HB	VAL	59	14.351	-21.905	-3.415	0.00	0.00	H
ATOM	950	1HG1	VAL	59	17.277	-21.226	-3.825	0.00	0.00	H
ATOM	951	2HG1	VAL	59	16.233	-22.586	-4.483	0.00	0.00	H
ATOM	952	3HG1	VAL	59	16.082	-20.901	-4.986	0.00	0.00	H
ATOM	953	1HG2	VAL	59	15.003	-21.852	-1.077	0.00	0.00	H
ATOM	954	2HG2	VAL	59	16.319	-22.698	-1.906	0.00	0.00	H
ATOM	955	3HG2	VAL	59	16.590	-21.044	-1.473	0.00	0.00	H
ATOM	956	N	ALA	60	12.307	-19.750	-3.388	0.00	0.00	N
ATOM	957	CA	ALA	60	10.921	-19.581	-3.069	0.00	0.00	C
ATOM	958	C	ALA	60	10.314	-20.687	-2.110	0.00	0.00	C
ATOM	959	O	ALA	60	9.962	-21.805	-2.584	0.00	0.00	O
ATOM	960	CB	ALA	60	10.197	-19.333	-4.437	0.00	0.00	C
ATOM	961	H	ALA	60	12.606	-19.820	-4.350	0.00	0.00	H
ATOM	962	HA	ALA	60	10.802	-18.605	-2.599	0.00	0.00	H
ATOM	963	HB1	ALA	60	10.597	-18.518	-5.040	0.00	0.00	H
ATOM	964	HB2	ALA	60	10.254	-20.216	-5.073	0.00	0.00	H
ATOM	965	HB3	ALA	60	9.173	-19.005	-4.256	0.00	0.00	H
ATOM	966	N	ALA	61	9.987	-20.283	-0.874	0.00	0.00	N
ATOM	967	CA	ALA	61	9.169	-21.031	0.096	0.00	0.00	C
ATOM	968	C	ALA	61	7.716	-21.253	-0.557	0.00	0.00	C
ATOM	969	O	ALA	61	7.307	-20.562	-1.522	0.00	0.00	O
ATOM	970	CB	ALA	61	9.207	-20.211	1.349	0.00	0.00	C
ATOM	971	H	ALA	61	10.047	-19.308	-0.618	0.00	0.00	H
ATOM	972	HA	ALA	61	9.598	-22.024	0.235	0.00	0.00	H
ATOM	973	HB1	ALA	61	9.060	-19.176	1.038	0.00	0.00	H
ATOM	974	HB2	ALA	61	10.223	-20.256	1.740	0.00	0.00	H
ATOM	975	HB3	ALA	61	8.486	-20.438	2.134	0.00	0.00	H
ATOM	976	N	PRO	62	6.986	-22.259	-0.074	0.00	0.00	N
ATOM	977	CA	PRO	62	5.627	-22.656	-0.517	0.00	0.00	C
ATOM	978	C	PRO	62	4.532	-21.695	-0.068	0.00	0.00	C
ATOM	979	O	PRO	62	4.658	-21.034	0.957	0.00	0.00	O
ATOM	980	CB	PRO	62	5.333	-24.015	0.149	0.00	0.00	C
ATOM	981	CG	PRO	62	6.594	-24.442	0.846	0.00	0.00	C
ATOM	982	CD	PRO	62	7.323	-23.150	1.061	0.00	0.00	C
ATOM	983	HA	PRO	62	5.684	-22.753	-1.601	0.00	0.00	H
ATOM	984	HB2	PRO	62	5.171	-24.720	-0.667	0.00	0.00	H
ATOM	985	HB3	PRO	62	4.590	-23.891	0.938	0.00	0.00	H
ATOM	986	HG2	PRO	62	6.363	-24.955	1.779	0.00	0.00	H
ATOM	987	HG3	PRO	62	7.229	-25.173	0.349	0.00	0.00	H
ATOM	988	HD2	PRO	62	6.980	-22.638	1.959	0.00	0.00	H
ATOM	989	HD3	PRO	62	8.381	-23.342	1.243	0.00	0.00	H
ATOM	990	N	ALA	63	3.412	-21.626	-0.775	0.00	0.00	N
ATOM	991	CA	ALA	63	2.265	-20.802	-0.386	0.00	0.00	C
ATOM	992	C	ALA	63	1.421	-21.291	0.791	0.00	0.00	C
ATOM	993	O	ALA	63	1.441	-22.484	1.123	0.00	0.00	O
ATOM	994	CB	ALA	63	1.387	-20.479	-1.600	0.00	0.00	C
ATOM	995	H	ALA	63	3.375	-22.188	-1.615	0.00	0.00	H
ATOM	996	HA	ALA	63	2.782	-19.873	-0.148	0.00	0.00	H
ATOM	997	HB1	ALA	63	0.610	-19.725	-1.484	0.00	0.00	H
ATOM	998	HB2	ALA	63	2.079	-20.080	-2.342	0.00	0.00	H
ATOM	999	HB3	ALA	63	0.901	-21.401	-1.917	0.00	0.00	H
ATOM	1000	N	ASP	64	0.655	-20.403	1.465	0.00	0.00	N
ATOM	1001	CA	ASP	64	-0.208	-20.659	2.600	0.00	0.00	C
ATOM	1002	C	ASP	64	-1.669	-20.588	2.175	0.00	0.00	C
ATOM	1003	O	ASP	64	-1.985	-19.516	1.644	0.00	0.00	O
ATOM	1004	CB	ASP	64	0.163	-19.688	3.726	0.00	0.00	C
ATOM	1005	CG	ASP	64	-0.604	-20.074	5.009	0.00	0.00	C
ATOM	1006	OD1	ASP	64	-0.828	-21.237	5.313	0.00	0.00	O
ATOM	1007	OD2	ASP	64	-0.864	-19.173	5.793	0.00	0.00	O
ATOM	1008	H	ASP	64	0.797	-19.416	1.310	0.00	0.00	H
ATOM	1009	HA	ASP	64	0.085	-21.609	3.049	0.00	0.00	H
ATOM	1010	HB2	ASP	64	1.212	-19.906	3.930	0.00	0.00	H
ATOM	1011	HB3	ASP	64	-0.024	-18.646	3.467	0.00	0.00	H
ATOM	1012	N	PRO	65	-2.354	-21.717	2.126	0.00	0.00	N
ATOM	1013	CA	PRO	65	-3.523	-21.776	1.352	0.00	0.00	C
ATOM	1014	C	PRO	65	-4.608	-20.730	1.525	0.00	0.00	C
ATOM	1015	O	PRO	65	-5.188	-20.324	0.534	0.00	0.00	O
ATOM	1016	CB	PRO	65	-4.047	-23.210	1.400	0.00	0.00	C
ATOM	1017	CG	PRO	65	-2.720	-24.077	1.594	0.00	0.00	C
ATOM	1018	CD	PRO	65	-1.923	-23.091	2.422	0.00	0.00	C
ATOM	1019	HA	PRO	65	-3.183	-21.613	0.328	0.00	0.00	H
ATOM	1020	HB2	PRO	65	-4.647	-23.417	0.515	0.00	0.00	H
ATOM	1021	HB3	PRO	65	-4.554	-23.365	2.352	0.00	0.00	H
ATOM	1022	HG2	PRO	65	-2.926	-25.005	2.125	0.00	0.00	H
ATOM	1023	HG3	PRO	65	-2.181	-24.141	0.649	0.00	0.00	H

ATOM	1024	HD2	PRO	65	-2.049	-23.294	3.486	0.00	0.00	H
ATOM	1025	HD3	PRO	65	-0.889	-23.269	2.123	0.00	0.00	H
ATOM	1026	N	GLU	66	-4.753	-20.117	2.668	0.00	0.00	N
ATOM	1027	CA	GLU	66	-5.692	-18.976	2.987	0.00	0.00	C
ATOM	1028	C	GLU	66	-5.309	-17.585	2.412	0.00	0.00	C
ATOM	1029	O	GLU	66	-6.243	-16.762	2.357	0.00	0.00	O
ATOM	1030	CB	GLU	66	-5.871	-18.884	4.550	0.00	0.00	C
ATOM	1031	CG	GLU	66	-6.684	-20.076	5.172	0.00	0.00	C
ATOM	1032	CD	GLU	66	-8.044	-20.364	4.542	0.00	0.00	C
ATOM	1033	OE1	GLU	66	-8.738	-19.402	4.104	0.00	0.00	O
ATOM	1034	OE2	GLU	66	-8.443	-21.561	4.476	0.00	0.00	O
ATOM	1035	H	GLU	66	-4.175	-20.367	3.458	0.00	0.00	H
ATOM	1036	HA	GLU	66	-6.654	-19.241	2.547	0.00	0.00	H
ATOM	1037	HB2	GLU	66	-4.870	-18.875	4.978	0.00	0.00	H
ATOM	1038	HB3	GLU	66	-6.396	-17.975	4.843	0.00	0.00	H
ATOM	1039	HG2	GLU	66	-6.124	-21.005	5.072	0.00	0.00	H
ATOM	1040	HG3	GLU	66	-6.908	-19.976	6.235	0.00	0.00	H
ATOM	1041	N	MET	67	-4.152	-17.454	1.776	0.00	0.00	N
ATOM	1042	CA	MET	67	-3.796	-16.356	0.901	0.00	0.00	C
ATOM	1043	C	MET	67	-3.921	-16.587	-0.655	0.00	0.00	C
ATOM	1044	O	MET	67	-4.014	-15.642	-1.411	0.00	0.00	O
ATOM	1045	CB	MET	67	-2.437	-15.768	1.328	0.00	0.00	C
ATOM	1046	CG	MET	67	-2.009	-14.535	0.552	0.00	0.00	C
ATOM	1047	SD	MET	67	-0.723	-13.530	1.358	0.00	0.00	S
ATOM	1048	CE	MET	67	-0.405	-12.215	0.125	0.00	0.00	C
ATOM	1049	H	MET	67	-3.543	-18.259	1.775	0.00	0.00	H
ATOM	1050	HA	MET	67	-4.551	-15.570	0.935	0.00	0.00	H
ATOM	1051	HB2	MET	67	-2.518	-15.426	2.360	0.00	0.00	H
ATOM	1052	HB3	MET	67	-1.649	-16.512	1.201	0.00	0.00	H
ATOM	1053	HG2	MET	67	-1.565	-14.746	-0.421	0.00	0.00	H
ATOM	1054	HG3	MET	67	-2.894	-13.915	0.416	0.00	0.00	H
ATOM	1055	HE1	MET	67	-1.239	-11.528	-0.013	0.00	0.00	H
ATOM	1056	HE2	MET	67	0.365	-11.479	0.353	0.00	0.00	H
ATOM	1057	HE3	MET	67	-0.176	-12.774	-0.783	0.00	0.00	H
ATOM	1058	N	VAL	68	-3.954	-17.838	-1.100	0.00	0.00	N
ATOM	1059	CA	VAL	68	-3.979	-18.145	-2.542	0.00	0.00	C
ATOM	1060	C	VAL	68	-5.385	-17.883	-3.084	0.00	0.00	C
ATOM	1061	O	VAL	68	-5.568	-17.732	-4.286	0.00	0.00	O
ATOM	1062	CB	VAL	68	-3.595	-19.648	-2.703	0.00	0.00	C
ATOM	1063	CG1	VAL	68	-3.831	-20.321	-4.059	0.00	0.00	C
ATOM	1064	CG2	VAL	68	-2.129	-19.984	-2.363	0.00	0.00	C
ATOM	1065	H	VAL	68	-3.660	-18.528	-0.423	0.00	0.00	H
ATOM	1066	HA	VAL	68	-3.238	-17.554	-3.080	0.00	0.00	H
ATOM	1067	HB	VAL	68	-4.169	-20.179	-1.943	0.00	0.00	H
ATOM	1068	1HG1	VAL	68	-4.865	-20.226	-4.389	0.00	0.00	H
ATOM	1069	2HG1	VAL	68	-3.101	-19.886	-4.741	0.00	0.00	H
ATOM	1070	3HG1	VAL	68	-3.732	-21.385	-3.846	0.00	0.00	H
ATOM	1071	1HG2	VAL	68	-1.410	-19.319	-2.841	0.00	0.00	H
ATOM	1072	2HG2	VAL	68	-1.943	-19.724	-1.321	0.00	0.00	H
ATOM	1073	3HG2	VAL	68	-2.013	-21.049	-2.564	0.00	0.00	H
ATOM	1074	N	THR	69	-6.366	-17.725	-2.176	0.00	0.00	N
ATOM	1075	CA	THR	69	-7.764	-17.334	-2.446	0.00	0.00	C
ATOM	1076	C	THR	69	-7.901	-15.931	-2.941	0.00	0.00	C
ATOM	1077	O	THR	69	-9.005	-15.622	-3.422	0.00	0.00	O
ATOM	1078	CB	THR	69	-8.495	-17.485	-1.117	0.00	0.00	C
ATOM	1079	CG2	THR	69	-8.430	-18.871	-0.509	0.00	0.00	C
ATOM	1080	OG1	THR	69	-7.882	-16.693	-0.155	0.00	0.00	O
ATOM	1081	H	THR	69	-6.040	-18.004	-1.263	0.00	0.00	H
ATOM	1082	HA	THR	69	-8.237	-17.938	-3.220	0.00	0.00	H
ATOM	1083	HB	THR	69	-9.535	-17.205	-1.283	0.00	0.00	H
ATOM	1084	HG1	THR	69	-8.398	-16.975	0.604	0.00	0.00	H
ATOM	1085	1HG2	THR	69	-8.782	-19.537	-1.297	0.00	0.00	H
ATOM	1086	2HG2	THR	69	-7.466	-19.119	-0.063	0.00	0.00	H
ATOM	1087	3HG2	THR	69	-9.164	-18.934	0.294	0.00	0.00	H
ATOM	1088	N	LEU	70	-6.889	-15.017	-2.748	0.00	0.00	N
ATOM	1089	CA	LEU	70	-6.857	-13.589	-3.206	0.00	0.00	C
ATOM	1090	C	LEU	70	-6.701	-13.499	-4.748	0.00	0.00	C
ATOM	1091	O	LEU	70	-5.756	-13.960	-5.362	0.00	0.00	O
ATOM	1092	CB	LEU	70	-5.716	-13.044	-2.446	0.00	0.00	C
ATOM	1093	CG	LEU	70	-5.862	-11.536	-2.302	0.00	0.00	C
ATOM	1094	CD1	LEU	70	-6.906	-10.975	-1.394	0.00	0.00	C
ATOM	1095	CD2	LEU	70	-4.530	-10.825	-1.909	0.00	0.00	C
ATOM	1096	H	LEU	70	-5.969	-15.417	-2.629	0.00	0.00	H
ATOM	1097	HA	LEU	70	-7.800	-13.141	-2.895	0.00	0.00	H
ATOM	1098	HB2	LEU	70	-5.839	-13.451	-1.444	0.00	0.00	H
ATOM	1099	HB3	LEU	70	-4.800	-13.250	-3.003	0.00	0.00	H
ATOM	1100	HG	LEU	70	-6.011	-11.177	-3.320	0.00	0.00	H
ATOM	1101	1HD1	LEU	70	-7.861	-11.354	-1.759	0.00	0.00	H
ATOM	1102	2HD1	LEU	70	-6.814	-11.352	-0.376	0.00	0.00	H
ATOM	1103	3HD1	LEU	70	-6.842	-9.888	-1.346	0.00	0.00	H
ATOM	1104	1HD2	LEU	70	-4.573	-9.740	-2.011	0.00	0.00	H
ATOM	1105	2HD2	LEU	70	-4.193	-11.255	-0.967	0.00	0.00	H
ATOM	1106	3HD2	LEU	70	-3.821	-11.137	-2.676	0.00	0.00	H
ATOM	1107	N	PRO	71	-7.676	-12.822	-5.418	0.00	0.00	N
ATOM	1108	CA	PRO	71	-7.691	-12.709	-6.893	0.00	0.00	C
ATOM	1109	C	PRO	71	-6.536	-11.761	-7.297	0.00	0.00	C
ATOM	1110	O	PRO	71	-6.205	-10.750	-6.707	0.00	0.00	O
ATOM	1111	CB	PRO	71	-9.065	-12.142	-7.294	0.00	0.00	C
ATOM	1112	CG	PRO	71	-9.350	-11.338	-6.031	0.00	0.00	C
ATOM	1113	CD	PRO	71	-8.681	-11.955	-4.885	0.00	0.00	C
ATOM	1114	HA	PRO	71	-7.636	-13.714	-7.313	0.00	0.00	H
ATOM	1115	HB2	PRO	71	-9.769	-12.971	-7.342	0.00	0.00	H
ATOM	1116	HB3	PRO	71	-9.052	-11.565	-8.220	0.00	0.00	H
ATOM	1117	HG2	PRO	71	-8.834	-10.397	-6.225	0.00	0.00	H
ATOM	1118	HG3	PRO	71	-10.387	-11.019	-5.909	0.00	0.00	H
ATOM	1119	HD2	PRO	71	-8.207	-11.191	-4.269	0.00	0.00	H
ATOM	1120	HD3	PRO	71	-9.411	-12.463	-4.254	0.00	0.00	H
ATOM	1121	N	LEU	72	-5.927	-12.123	-8.421	0.00	0.00	N
ATOM	1122	CA	LEU	72	-4.721	-11.536	-9.046	0.00	0.00	C
ATOM	1123	C	LEU	72	-4.792	-11.604	-10.608	0.00	0.00	C
ATOM	1124	O	LEU	72	-4.861	-12.735	-11.093	0.00	0.00	O
ATOM	1125	CB	LEU	72	-3.424	-12.158	-8.530	0.00	0.00	C
ATOM	1126	CG	LEU	72	-3.175	-12.101	-6.995	0.00	0.00	C
ATOM	1127	CD1	LEU	72	-1.938	-12.960	-6.730	0.00	0.00	C
ATOM	1128	CD2	LEU	72	-2.885	-10.659	-6.559	0.00	0.00	C

ATOM	1129	H	LEU	72	-6.182	-12.948	-8.946	0.00	0.00	H
ATOM	1130	HA	LEU	72	-4.719	-10.496	-8.719	0.00	0.00	H
ATOM	1131	HB2	LEU	72	-3.439	-13.231	-8.726	0.00	0.00	H
ATOM	1132	HB3	LEU	72	-2.599	-11.725	-9.095	0.00	0.00	H
ATOM	1133	HG	LEU	72	-4.038	-12.546	-6.501	0.00	0.00	H
ATOM	1134	1HD1	LEU	72	-1.786	-12.879	-5.653	0.00	0.00	H
ATOM	1135	2HD1	LEU	72	-1.051	-12.543	-7.205	0.00	0.00	H
ATOM	1136	3HD1	LEU	72	-1.946	-14.045	-6.837	0.00	0.00	H
ATOM	1137	1HD2	LEU	72	-2.523	-10.620	-5.533	0.00	0.00	H
ATOM	1138	2HD2	LEU	72	-3.787	-10.054	-6.653	0.00	0.00	H
ATOM	1139	3HD2	LEU	72	-2.082	-10.238	-7.164	0.00	0.00	H
ATOM	1140	N	GLN	73	-4.593	-10.512	-11.296	0.00	0.00	N
ATOM	1141	CA	GLN	73	-4.438	-10.387	-12.700	0.00	0.00	C
ATOM	1142	C	GLN	73	-3.029	-10.016	-13.062	0.00	0.00	C
ATOM	1143	O	GLN	73	-2.617	-8.838	-12.968	0.00	0.00	O
ATOM	1144	CB	GLN	73	-5.456	-9.379	-13.229	0.00	0.00	C
ATOM	1145	CG	GLN	73	-6.803	-10.076	-13.509	0.00	0.00	C
ATOM	1146	CD	GLN	73	-7.891	-9.010	-13.517	0.00	0.00	C
ATOM	1147	NE2	GLN	73	-8.920	-9.148	-12.680	0.00	0.00	N
ATOM	1148	OE1	GLN	73	-7.895	-8.024	-14.289	0.00	0.00	O
ATOM	1149	H	GLN	73	-4.541	-9.685	-10.720	0.00	0.00	H
ATOM	1150	HA	GLN	73	-4.750	-11.335	-13.137	0.00	0.00	H
ATOM	1151	HB2	GLN	73	-5.684	-8.641	-12.460	0.00	0.00	H
ATOM	1152	HB3	GLN	73	-5.173	-8.857	-14.143	0.00	0.00	H
ATOM	1153	HG2	GLN	73	-6.718	-10.530	-14.497	0.00	0.00	H
ATOM	1154	HG3	GLN	73	-7.048	-10.821	-12.752	0.00	0.00	H
ATOM	1155	1HE2	GLN	73	-8.944	-9.832	-11.936	0.00	0.00	H
ATOM	1156	2HE2	GLN	73	-9.495	-8.328	-12.561	0.00	0.00	H
ATOM	1157	N	PRO	74	-2.153	-11.018	-13.441	0.00	0.00	N
ATOM	1158	CA	PRO	74	-0.744	-10.716	-13.902	0.00	0.00	C
ATOM	1159	C	PRO	74	-0.723	-10.161	-15.295	0.00	0.00	C
ATOM	1160	O	PRO	74	0.151	-9.331	-15.488	0.00	0.00	O
ATOM	1161	CB	PRO	74	-0.106	-12.178	-13.830	0.00	0.00	C
ATOM	1162	CG	PRO	74	-1.222	-13.189	-13.904	0.00	0.00	C
ATOM	1163	CD	PRO	74	-2.326	-12.460	-13.170	0.00	0.00	C
ATOM	1164	HA	PRO	74	-0.186	-10.081	-13.213	0.00	0.00	H
ATOM	1165	HB2	PRO	74	0.426	-12.338	-12.891	0.00	0.00	H
ATOM	1166	HB3	PRO	74	0.650	-12.308	-14.605	0.00	0.00	H
ATOM	1167	HG2	PRO	74	-1.528	-13.353	-14.938	0.00	0.00	H
ATOM	1168	HG3	PRO	74	-0.977	-14.157	-13.468	0.00	0.00	H
ATOM	1169	HD2	PRO	74	-3.221	-12.985	-13.503	0.00	0.00	H
ATOM	1170	HD3	PRO	74	-2.264	-12.550	-12.085	0.00	0.00	H
ATOM	1171	N	SER	75	-1.662	-10.573	-16.169	0.00	0.00	N
ATOM	1172	CA	SER	75	-1.507	-10.309	-17.596	0.00	0.00	C
ATOM	1173	C	SER	75	-1.787	-8.916	-18.079	0.00	0.00	C
ATOM	1174	O	SER	75	-1.384	-8.605	-19.157	0.00	0.00	O
ATOM	1175	CB	SER	75	-2.463	-11.211	-18.422	0.00	0.00	C
ATOM	1176	OG	SER	75	-2.457	-12.520	-17.938	0.00	0.00	O
ATOM	1177	H	SER	75	-2.586	-10.875	-15.895	0.00	0.00	H
ATOM	1178	HA	SER	75	-0.523	-10.476	-18.036	0.00	0.00	H
ATOM	1179	HB2	SER	75	-3.434	-10.720	-18.481	0.00	0.00	H
ATOM	1180	HB3	SER	75	-2.076	-11.202	-19.439	0.00	0.00	H
ATOM	1181	HG	SER	75	-1.687	-12.969	-18.293	0.00	0.00	H
ATOM	1182	N	SER	76	-2.509	-8.062	-17.334	0.00	0.00	N
ATOM	1183	CA	SER	76	-2.929	-6.683	-17.611	0.00	0.00	C
ATOM	1184	C	SER	76	-1.829	-5.674	-17.343	0.00	0.00	C
ATOM	1185	O	SER	76	-0.833	-5.950	-16.602	0.00	0.00	O
ATOM	1186	CB	SER	76	-4.124	-6.400	-16.791	0.00	0.00	C
ATOM	1187	OG	SER	76	-3.835	-5.971	-15.453	0.00	0.00	O
ATOM	1188	H	SER	76	-2.897	-8.447	-16.486	0.00	0.00	H
ATOM	1189	HA	SER	76	-3.202	-6.537	-18.656	0.00	0.00	H
ATOM	1190	HB2	SER	76	-4.706	-5.621	-17.287	0.00	0.00	H
ATOM	1191	HB3	SER	76	-4.694	-7.320	-16.657	0.00	0.00	H
ATOM	1192	HG	SER	76	-4.668	-5.967	-14.977	0.00	0.00	H
ATOM	1193	N	THR	77	-2.030	-4.440	-17.821	0.00	0.00	N
ATOM	1194	CA	THR	77	-1.217	-3.283	-17.413	0.00	0.00	C
ATOM	1195	C	THR	77	-1.323	-2.878	-15.951	0.00	0.00	C
ATOM	1196	O	THR	77	-0.370	-2.207	-15.506	0.00	0.00	O
ATOM	1197	CB	THR	77	-1.456	-1.987	-18.207	0.00	0.00	C
ATOM	1198	CG2	THR	77	-0.886	-2.215	-19.646	0.00	0.00	C
ATOM	1199	OG1	THR	77	-2.800	-1.544	-18.146	0.00	0.00	O
ATOM	1200	H	THR	77	-2.763	-4.322	-18.507	0.00	0.00	H
ATOM	1201	HA	THR	77	-0.160	-3.461	-17.608	0.00	0.00	H
ATOM	1202	HB	THR	77	-0.998	-1.183	-17.630	0.00	0.00	H
ATOM	1203	HG1	THR	77	-3.425	-2.229	-18.393	0.00	0.00	H
ATOM	1204	1HG2	THR	77	-1.678	-2.150	-20.391	0.00	0.00	H
ATOM	1205	2HG2	THR	77	-0.434	-3.158	-19.955	0.00	0.00	H
ATOM	1206	3HG2	THR	77	-0.159	-1.428	-19.850	0.00	0.00	H
ATOM	1207	N	MET	78	-2.277	-3.327	-15.108	0.00	0.00	N
ATOM	1208	CA	MET	78	-2.244	-3.085	-13.692	0.00	0.00	C
ATOM	1209	C	MET	78	-1.327	-4.178	-13.068	0.00	0.00	C
ATOM	1210	O	MET	78	-0.569	-3.890	-12.131	0.00	0.00	O
ATOM	1211	CB	MET	78	-3.677	-3.000	-13.124	0.00	0.00	C
ATOM	1212	CG	MET	78	-4.539	-1.957	-13.780	0.00	0.00	C
ATOM	1213	SD	MET	78	-3.848	-0.306	-13.752	0.00	0.00	S
ATOM	1214	CE	MET	78	-4.790	0.628	-15.054	0.00	0.00	C
ATOM	1215	H	MET	78	-2.962	-3.956	-15.502	0.00	0.00	H
ATOM	1216	HA	MET	78	-1.712	-2.169	-13.432	0.00	0.00	H
ATOM	1217	HB2	MET	78	-4.142	-3.972	-13.288	0.00	0.00	H
ATOM	1218	HB3	MET	78	-3.680	-2.753	-12.063	0.00	0.00	H
ATOM	1219	HG2	MET	78	-4.685	-2.243	-14.822	0.00	0.00	H
ATOM	1220	HG3	MET	78	-5.494	-1.927	-13.254	0.00	0.00	H
ATOM	1221	HE1	MET	78	-4.661	0.220	-16.057	0.00	0.00	H
ATOM	1222	HE2	MET	78	-5.822	0.823	-14.765	0.00	0.00	H
ATOM	1223	HE3	MET	78	-4.373	1.635	-15.069	0.00	0.00	H
ATOM	1224	N	GLY	79	-1.246	-5.377	-13.692	0.00	0.00	N
ATOM	1225	CA	GLY	79	-0.300	-6.393	-13.373	0.00	0.00	C
ATOM	1226	C	GLY	79	1.120	-5.913	-13.545	0.00	0.00	C
ATOM	1227	O	GLY	79	1.975	-6.255	-12.748	0.00	0.00	O
ATOM	1228	H	GLY	79	-1.742	-5.459	-14.568	0.00	0.00	H
ATOM	1229	HA2	GLY	79	-0.407	-6.665	-12.323	0.00	0.00	H
ATOM	1230	HA3	GLY	79	-0.499	-7.224	-14.050	0.00	0.00	H
ATOM	1231	N	GLN	80	1.343	-5.201	-14.658	0.00	0.00	N
ATOM	1232	CA	GLN	80	2.557	-4.507	-15.092	0.00	0.00	C
ATOM	1233	C	GLN	80	2.956	-3.389	-14.135	0.00	0.00	C

ATOM	1234	O	GLN	80	4.128	-3.320	-13.673	0.00	0.00	O
ATOM	1235	CB	GLN	80	2.271	-3.923	-16.463	0.00	0.00	C
ATOM	1236	CG	GLN	80	3.636	-3.576	-17.057	0.00	0.00	C
ATOM	1237	CD	GLN	80	3.525	-2.983	-18.494	0.00	0.00	C
ATOM	1238	NE2	GLN	80	4.620	-2.561	-19.038	0.00	0.00	N
ATOM	1239	OE1	GLN	80	2.414	-2.784	-19.035	0.00	0.00	O
ATOM	1240	H	GLN	80	0.539	-5.016	-15.242	0.00	0.00	H
ATOM	1241	HA	GLN	80	3.402	-5.186	-15.209	0.00	0.00	H
ATOM	1242	HB2	GLN	80	1.840	-4.646	-17.154	0.00	0.00	H
ATOM	1243	HB3	GLN	80	1.580	-3.079	-16.481	0.00	0.00	H
ATOM	1244	HG2	GLN	80	4.020	-2.760	-16.446	0.00	0.00	H
ATOM	1245	HG3	GLN	80	4.298	-4.435	-17.172	0.00	0.00	H
ATOM	1246	1HE2	GLN	80	4.557	-2.079	-19.924	0.00	0.00	H
ATOM	1247	2HE2	GLN	80	5.422	-2.851	-18.498	0.00	0.00	H
ATOM	1248	N	VAL	81	2.003	-2.565	-13.684	0.00	0.00	N
ATOM	1249	CA	VAL	81	2.370	-1.603	-12.633	0.00	0.00	C
ATOM	1250	C	VAL	81	2.595	-2.307	-11.251	0.00	0.00	C
ATOM	1251	O	VAL	81	3.459	-1.815	-10.564	0.00	0.00	O
ATOM	1252	CB	VAL	81	1.242	-0.534	-12.487	0.00	0.00	C
ATOM	1253	CG1	VAL	81	1.509	0.434	-11.302	0.00	0.00	C
ATOM	1254	CG2	VAL	81	1.320	0.532	-13.653	0.00	0.00	C
ATOM	1255	H	VAL	81	1.084	-2.745	-14.062	0.00	0.00	H
ATOM	1256	HA	VAL	81	3.280	-1.080	-12.926	0.00	0.00	H
ATOM	1257	HB	VAL	81	0.250	-0.966	-12.344	0.00	0.00	H
ATOM	1258	1HG1	VAL	81	1.375	-0.105	-10.363	0.00	0.00	H
ATOM	1259	2HG1	VAL	81	2.533	0.812	-11.314	0.00	0.00	H
ATOM	1260	3HG1	VAL	81	0.692	1.153	-11.368	0.00	0.00	H
ATOM	1261	1HG2	VAL	81	0.359	1.023	-13.808	0.00	0.00	H
ATOM	1262	2HG2	VAL	81	2.052	1.323	-13.489	0.00	0.00	H
ATOM	1263	3HG2	VAL	81	1.436	-0.026	-14.582	0.00	0.00	H
ATOM	1264	N	GLY	82	2.012	-3.497	-10.931	0.00	0.00	N
ATOM	1265	CA	GLY	82	2.458	-4.161	-9.741	0.00	0.00	C
ATOM	1266	C	GLY	82	3.856	-4.659	-9.883	0.00	0.00	C
ATOM	1267	O	GLY	82	4.678	-4.547	-8.994	0.00	0.00	O
ATOM	1268	H	GLY	82	1.203	-3.824	-11.439	0.00	0.00	H
ATOM	1269	HA2	GLY	82	2.251	-3.606	-8.826	0.00	0.00	H
ATOM	1270	HA3	GLY	82	1.863	-5.069	-9.641	0.00	0.00	H
ATOM	1271	N	ARG	83	4.211	-5.215	-11.058	0.00	0.00	N
ATOM	1272	CA	ARG	83	5.597	-5.609	-11.392	0.00	0.00	C
ATOM	1273	C	ARG	83	6.659	-4.511	-11.291	0.00	0.00	C
ATOM	1274	O	ARG	83	7.839	-4.721	-10.985	0.00	0.00	O
ATOM	1275	CB	ARG	83	5.740	-6.218	-12.824	0.00	0.00	C
ATOM	1276	CG	ARG	83	5.039	-7.646	-12.881	0.00	0.00	C
ATOM	1277	CD	ARG	83	5.000	-8.033	-14.399	0.00	0.00	C
ATOM	1278	NE	ARG	83	3.876	-8.969	-14.707	0.00	0.00	N
ATOM	1279	CZ	ARG	83	4.007	-10.247	-15.053	0.00	0.00	C
ATOM	1280	NH1	ARG	83	2.969	-10.861	-15.452	0.00	0.00	N
ATOM	1281	NH2	ARG	83	5.170	-10.799	-14.900	0.00	0.00	N
ATOM	1282	H	ARG	83	3.543	-5.168	-11.814	0.00	0.00	H
ATOM	1283	HA	ARG	83	5.808	-6.391	-10.661	0.00	0.00	H
ATOM	1284	HB2	ARG	83	5.130	-5.636	-13.515	0.00	0.00	H
ATOM	1285	HB3	ARG	83	6.810	-6.301	-13.011	0.00	0.00	H
ATOM	1286	HG2	ARG	83	5.571	-8.418	-12.326	0.00	0.00	H
ATOM	1287	HG3	ARG	83	3.978	-7.568	-12.648	0.00	0.00	H
ATOM	1288	H02	ARG	83	4.731	-7.206	-15.055	0.00	0.00	H
ATOM	1289	H03	ARG	83	5.976	-8.450	-14.649	0.00	0.00	H
ATOM	1290	HE	ARG	83	3.084	-8.502	-15.127	0.00	0.00	H
ATOM	1291	1HH1	ARG	83	2.088	-10.393	-15.614	0.00	0.00	H
ATOM	1292	2HH1	ARG	83	3.105	-11.807	-15.778	0.00	0.00	H
ATOM	1293	1HH2	ARG	83	5.892	-10.175	-14.572	0.00	0.00	H
ATOM	1294	2HH2	ARG	83	5.312	-11.752	-15.205	0.00	0.00	H
ATOM	1295	N	GLN	84	6.227	-3.214	-11.495	0.00	0.00	N
ATOM	1296	CA	GLN	84	6.986	-1.945	-11.367	0.00	0.00	C
ATOM	1297	C	GLN	84	7.157	-1.340	-9.946	0.00	0.00	C
ATOM	1298	O	GLN	84	8.275	-0.923	-9.617	0.00	0.00	O
ATOM	1299	CB	GLN	84	6.393	-0.964	-12.374	0.00	0.00	C
ATOM	1300	CG	GLN	84	7.371	0.188	-12.650	0.00	0.00	C
ATOM	1301	CD	GLN	84	8.743	-0.254	-13.211	0.00	0.00	C
ATOM	1302	NE2	GLN	84	9.681	0.658	-13.336	0.00	0.00	N
ATOM	1303	OE1	GLN	84	8.949	-1.375	-13.601	0.00	0.00	O
ATOM	1304	H	GLN	84	5.329	-3.150	-11.954	0.00	0.00	H
ATOM	1305	HA	GLN	84	8.001	-2.193	-11.675	0.00	0.00	H
ATOM	1306	HB2	GLN	84	6.212	-1.355	-13.377	0.00	0.00	H
ATOM	1307	HB3	GLN	84	5.511	-0.452	-11.989	0.00	0.00	H
ATOM	1308	HG2	GLN	84	7.023	0.934	-13.364	0.00	0.00	H
ATOM	1309	HG3	GLN	84	7.520	0.757	-11.733	0.00	0.00	H
ATOM	1310	1HE2	GLN	84	10.528	0.378	-13.809	0.00	0.00	H
ATOM	1311	2HE2	GLN	84	9.570	1.619	-13.043	0.00	0.00	H
ATOM	1312	N	LEU	85	6.087	-1.419	-9.166	0.00	0.00	N
ATOM	1313	CA	LEU	85	6.136	-1.011	-7.752	0.00	0.00	C
ATOM	1314	C	LEU	85	6.860	-2.013	-6.830	0.00	0.00	C
ATOM	1315	O	LEU	85	7.362	-1.638	-5.742	0.00	0.00	O
ATOM	1316	CB	LEU	85	4.794	-0.696	-7.128	0.00	0.00	C
ATOM	1317	CG	LEU	85	4.136	0.532	-7.753	0.00	0.00	C
ATOM	1318	CD1	LEU	85	2.736	0.669	-7.012	0.00	0.00	C
ATOM	1319	CD2	LEU	85	4.924	1.873	-7.672	0.00	0.00	C
ATOM	1320	H	LEU	85	5.216	-1.620	-9.634	0.00	0.00	H
ATOM	1321	HA	LEU	85	6.804	-0.150	-7.708	0.00	0.00	H
ATOM	1322	HB2	LEU	85	4.106	-1.539	-7.183	0.00	0.00	H
ATOM	1323	HB3	LEU	85	4.984	-0.517	-6.070	0.00	0.00	H
ATOM	1324	HG	LEU	85	3.865	0.357	-8.793	0.00	0.00	H
ATOM	1325	1HD1	LEU	85	2.172	1.452	-7.520	0.00	0.00	H
ATOM	1326	2HD1	LEU	85	2.190	-0.274	-6.985	0.00	0.00	H
ATOM	1327	3HD1	LEU	85	2.880	0.956	-5.971	0.00	0.00	H
ATOM	1328	1HD2	LEU	85	5.351	1.877	-6.668	0.00	0.00	H
ATOM	1329	2HD2	LEU	85	5.764	1.830	-8.366	0.00	0.00	H
ATOM	1330	3HD2	LEU	85	4.303	2.662	-8.095	0.00	0.00	H
ATOM	1331	N	ALA	86	6.907	-3.287	-7.204	0.00	0.00	N
ATOM	1332	CA	ALA	86	7.738	-4.272	-6.589	0.00	0.00	C
ATOM	1333	C	ALA	86	9.185	-4.442	-7.144	0.00	0.00	C
ATOM	1334	O	ALA	86	9.996	-4.867	-6.317	0.00	0.00	O
ATOM	1335	CB	ALA	86	7.074	-5.634	-6.593	0.00	0.00	C
ATOM	1336	H	ALA	86	6.307	-3.647	-7.934	0.00	0.00	H
ATOM	1337	HA	ALA	86	7.731	-3.933	-5.554	0.00	0.00	H
ATOM	1338	HB1	ALA	86	6.968	-5.879	-7.650	0.00	0.00	H

ATOM	1339	HB2	ALA	86	7.797	-6.332	-6.171	0.00	0.00	H
ATOM	1340	HB3	ALA	86	6.102	-5.619	-6.100	0.00	0.00	H
ATOM	1341	N	ILE	87	9.532	-4.119	-8.418	0.00	0.00	N
ATOM	1342	CA	ILE	87	10.937	-4.167	-8.866	0.00	0.00	C
ATOM	1343	C	ILE	87	11.865	-3.165	-8.208	0.00	0.00	C
ATOM	1344	O	ILE	87	13.117	-3.415	-8.235	0.00	0.00	O
ATOM	1345	CB	ILE	87	11.092	-4.187	-10.396	0.00	0.00	C
ATOM	1346	CG1	ILE	87	12.398	-4.783	-10.942	0.00	0.00	C
ATOM	1347	CG2	ILE	87	10.803	-2.889	-11.112	0.00	0.00	C
ATOM	1348	CD1	ILE	87	12.797	-6.174	-10.407	0.00	0.00	C
ATOM	1349	H	ILE	87	8.870	-3.811	-9.116	0.00	0.00	H
ATOM	1350	HA	ILE	87	11.367	-5.115	-8.542	0.00	0.00	H
ATOM	1351	HB	ILE	87	10.272	-4.815	-10.747	0.00	0.00	H
ATOM	1352	ZHG1	ILE	87	12.369	-4.847	-12.031	0.00	0.00	H
ATOM	1353	ZHG1	ILE	87	13.216	-4.102	-10.712	0.00	0.00	H
ATOM	1354	1HG2	ILE	87	10.001	-2.310	-10.655	0.00	0.00	H
ATOM	1355	2HG2	ILE	87	11.694	-2.260	-11.080	0.00	0.00	H
ATOM	1356	3HG2	ILE	87	10.639	-3.019	-12.180	0.00	0.00	H
ATOM	1357	1HD1	ILE	87	13.620	-6.551	-11.011	0.00	0.00	H
ATOM	1358	2HD1	ILE	87	13.149	-6.048	-9.382	0.00	0.00	H
ATOM	1359	3HD1	ILE	87	11.993	-6.899	-10.535	0.00	0.00	H
ATOM	1360	N	ILE	88	11.185	-2.176	-7.626	0.00	0.00	N
ATOM	1361	CA	ILE	88	11.684	-1.211	-6.642	0.00	0.00	C
ATOM	1362	C	ILE	88	11.382	-1.443	-5.224	0.00	0.00	C
ATOM	1363	O	ILE	88	11.888	-0.762	-4.359	0.00	0.00	O
ATOM	1364	CB	ILE	88	11.248	0.179	-7.149	0.00	0.00	C
ATOM	1365	CG1	ILE	88	9.727	0.451	-6.798	0.00	0.00	C
ATOM	1366	CG2	ILE	88	11.502	0.461	-8.596	0.00	0.00	C
ATOM	1367	CD1	ILE	88	9.414	1.930	-6.800	0.00	0.00	C
ATOM	1368	H	ILE	88	10.203	-2.005	-7.798	0.00	0.00	H
ATOM	1369	HA	ILE	88	12.770	-1.128	-6.683	0.00	0.00	H
ATOM	1370	HB	ILE	88	11.933	0.882	-6.672	0.00	0.00	H
ATOM	1371	ZHG1	ILE	88	9.090	-0.087	-7.499	0.00	0.00	H
ATOM	1372	ZHG1	ILE	88	9.500	0.268	-5.748	0.00	0.00	H
ATOM	1373	1HG2	ILE	88	11.235	1.475	-8.897	0.00	0.00	H
ATOM	1374	2HG2	ILE	88	10.978	-0.197	-9.290	0.00	0.00	H
ATOM	1375	3HG2	ILE	88	12.572	0.428	-8.805	0.00	0.00	H
ATOM	1376	1HD1	ILE	88	9.208	2.318	-7.798	0.00	0.00	H
ATOM	1377	2HD1	ILE	88	8.483	2.186	-6.296	0.00	0.00	H
ATOM	1378	3HD1	ILE	88	10.286	2.502	-6.480	0.00	0.00	H
ATOM	1379	N	GLY	89	10.640	-2.482	-4.872	0.00	0.00	N
ATOM	1380	CA	GLY	89	10.256	-2.694	-3.522	0.00	0.00	C
ATOM	1381	C	GLY	89	11.435	-2.907	-2.490	0.00	0.00	C
ATOM	1382	O	GLY	89	11.244	-2.867	-1.291	0.00	0.00	O
ATOM	1383	H	GLY	89	10.457	-3.186	-5.572	0.00	0.00	H
ATOM	1384	HA2	GLY	89	9.510	-1.965	-3.204	0.00	0.00	H
ATOM	1385	HA3	GLY	89	9.731	-3.647	-3.451	0.00	0.00	H
ATOM	1386	N	ASP	90	12.668	-3.194	-2.925	0.00	0.00	N
ATOM	1387	CA	ASP	90	13.870	-3.196	-2.068	0.00	0.00	C
ATOM	1388	C	ASP	90	14.210	-1.765	-1.622	0.00	0.00	C
ATOM	1389	O	ASP	90	14.598	-1.465	-0.453	0.00	0.00	O
ATOM	1390	CB	ASP	90	15.096	-3.708	-2.854	0.00	0.00	C
ATOM	1391	CG	ASP	90	16.298	-3.829	-2.026	0.00	0.00	C
ATOM	1392	OD1	ASP	90	17.288	-3.064	-2.229	0.00	0.00	O
ATOM	1393	OD2	ASP	90	16.312	-4.648	-1.051	0.00	0.00	O
ATOM	1394	H	ASP	90	12.824	-3.402	-3.901	0.00	0.00	H
ATOM	1395	HA	ASP	90	13.748	-3.753	-1.138	0.00	0.00	H
ATOM	1396	HB2	ASP	90	14.967	-4.721	-3.237	0.00	0.00	H
ATOM	1397	HB3	ASP	90	15.258	-3.087	-3.736	0.00	0.00	H
ATOM	1398	N	ASP	91	14.114	-0.726	-2.478	0.00	0.00	N
ATOM	1399	CA	ASP	91	14.572	0.662	-2.128	0.00	0.00	C
ATOM	1400	C	ASP	91	13.708	1.368	-1.001	0.00	0.00	C
ATOM	1401	O	ASP	91	14.223	1.913	-0.028	0.00	0.00	O
ATOM	1402	CB	ASP	91	14.650	1.493	-3.416	0.00	0.00	C
ATOM	1403	CG	ASP	91	15.289	2.883	-3.169	0.00	0.00	C
ATOM	1404	OD1	ASP	91	16.424	3.119	-3.645	0.00	0.00	O
ATOM	1405	OD2	ASP	91	14.636	3.812	-2.681	0.00	0.00	O
ATOM	1406	H	ASP	91	13.475	-0.783	-3.256	0.00	0.00	H
ATOM	1407	HA	ASP	91	15.560	0.537	-1.685	0.00	0.00	H
ATOM	1408	HB2	ASP	91	15.215	0.913	-4.144	0.00	0.00	H
ATOM	1409	HB3	ASP	91	13.640	1.591	-3.814	0.00	0.00	H
ATOM	1410	N	ILE	92	12.418	1.058	-0.921	0.00	0.00	N
ATOM	1411	CA	ILE	92	11.495	1.474	0.096	0.00	0.00	C
ATOM	1412	C	ILE	92	11.432	0.625	1.336	0.00	0.00	C
ATOM	1413	O	ILE	92	10.641	0.779	2.246	0.00	0.00	O
ATOM	1414	CB	ILE	92	10.126	1.612	-0.665	0.00	0.00	C
ATOM	1415	CG1	ILE	92	9.732	0.198	-1.175	0.00	0.00	C
ATOM	1416	CG2	ILE	92	10.178	2.763	-1.728	0.00	0.00	C
ATOM	1417	CD1	ILE	92	8.202	0.194	-1.592	0.00	0.00	C
ATOM	1418	H	ILE	92	12.008	0.546	-1.688	0.00	0.00	H
ATOM	1419	HA	ILE	92	11.817	2.438	0.487	0.00	0.00	H
ATOM	1420	HB	ILE	92	9.394	1.796	0.122	0.00	0.00	H
ATOM	1421	ZHG1	ILE	92	10.415	-0.048	-1.987	0.00	0.00	H
ATOM	1422	ZHG1	ILE	92	9.950	-0.531	-0.396	0.00	0.00	H
ATOM	1423	1HG2	ILE	92	9.243	2.888	-2.274	0.00	0.00	H
ATOM	1424	2HG2	ILE	92	10.402	3.718	-1.253	0.00	0.00	H
ATOM	1425	3HG2	ILE	92	10.948	2.515	-2.459	0.00	0.00	H
ATOM	1426	1HD1	ILE	92	7.929	1.071	-2.179	0.00	0.00	H
ATOM	1427	2HD1	ILE	92	7.958	-0.775	-2.030	0.00	0.00	H
ATOM	1428	3HD1	ILE	92	7.587	0.281	-0.696	0.00	0.00	H
ATOM	1429	N	ASN	93	12.290	-0.375	1.274	0.00	0.00	N
ATOM	1430	CA	ASN	93	12.419	-1.402	2.320	0.00	0.00	C
ATOM	1431	C	ASN	93	13.663	-1.250	3.097	0.00	0.00	C
ATOM	1432	O	ASN	93	13.616	-1.218	4.327	0.00	0.00	O
ATOM	1433	CB	ASN	93	12.168	-2.775	1.710	0.00	0.00	C
ATOM	1434	CG	ASN	93	11.833	-3.821	2.724	0.00	0.00	C
ATOM	1435	ND2	ASN	93	12.762	-4.683	3.019	0.00	0.00	N
ATOM	1436	OD1	ASN	93	10.682	-3.925	3.217	0.00	0.00	O
ATOM	1437	H	ASN	93	12.891	-0.421	0.464	0.00	0.00	H
ATOM	1438	HA	ASN	93	11.584	-1.266	3.009	0.00	0.00	H
ATOM	1439	HB2	ASN	93	11.308	-2.694	1.046	0.00	0.00	H
ATOM	1440	HB3	ASN	93	13.006	-3.079	1.081	0.00	0.00	H
ATOM	1441	1HD2	ASN	93	12.497	-5.357	3.723	0.00	0.00	H
ATOM	1442	2HD2	ASN	93	13.660	-4.669	2.558	0.00	0.00	H
ATOM	1443	N	ARG	94	14.794	-0.989	2.443	0.00	0.00	N

ATOM	1444	CA	ARG	94	16.084	-0.933	3.209	0.00	0.00	C
ATOM	1445	C	ARG	94	16.306	0.325	3.984	0.00	0.00	C
ATOM	1446	O	ARG	94	15.917	1.351	3.440	0.00	0.00	O
ATOM	1447	CB	ARG	94	17.251	-1.481	2.303	0.00	0.00	C
ATOM	1448	CG	ARG	94	17.633	-0.453	1.248	0.00	0.00	C
ATOM	1449	CD	ARG	94	18.927	-0.791	0.534	0.00	0.00	C
ATOM	1450	NE	ARG	94	18.917	-2.124	-0.075	0.00	0.00	N
ATOM	1451	CZ	ARG	94	19.461	-3.322	0.288	0.00	0.00	C
ATOM	1452	NH1	ARG	94	20.357	-3.255	1.178	0.00	0.00	N
ATOM	1453	NH2	ARG	94	18.937	-4.465	-0.025	0.00	0.00	N
ATOM	1454	H	ARG	94	14.779	-1.123	1.442	0.00	0.00	H
ATOM	1455	HA	ARG	94	15.968	-1.652	4.022	0.00	0.00	H
ATOM	1456	HB2	ARG	94	18.136	-1.665	2.912	0.00	0.00	H
ATOM	1457	HB3	ARG	94	16.965	-2.448	1.888	0.00	0.00	H
ATOM	1458	HG2	ARG	94	16.791	-0.393	0.560	0.00	0.00	H
ATOM	1459	HG3	ARG	94	17.722	0.470	1.821	0.00	0.00	H
ATOM	1460	HD2	ARG	94	19.240	-0.024	-0.173	0.00	0.00	H
ATOM	1461	HD3	ARG	94	19.590	-0.761	1.398	0.00	0.00	H
ATOM	1462	HE	ARG	94	18.210	-2.174	-0.795	0.00	0.00	H
ATOM	1463	1HH1	ARG	94	20.520	-2.350	1.596	0.00	0.00	H
ATOM	1464	2HH1	ARG	94	20.651	-4.146	1.550	0.00	0.00	H
ATOM	1465	1HH2	ARG	94	18.163	-4.552	-0.670	0.00	0.00	H
ATOM	1466	2HH2	ARG	94	19.241	-5.306	0.444	0.00	0.00	H
ATOM	1467	N	ARG	95	16.727	0.278	5.226	0.00	0.00	N
ATOM	1468	CA	ARG	95	16.653	1.287	6.267	0.00	0.00	C
ATOM	1469	C	ARG	95	15.293	1.970	6.488	0.00	0.00	C
ATOM	1470	O	ARG	95	15.294	3.140	6.900	0.00	0.00	O
ATOM	1471	CB	ARG	95	17.861	2.280	6.137	0.00	0.00	C
ATOM	1472	CG	ARG	95	18.303	2.970	4.836	0.00	0.00	C
ATOM	1473	CD	ARG	95	17.295	3.918	4.187	0.00	0.00	C
ATOM	1474	NE	ARG	95	16.867	4.932	5.194	0.00	0.00	N
ATOM	1475	CZ	ARG	95	17.541	6.038	5.546	0.00	0.00	C
ATOM	1476	NH1	ARG	95	18.576	6.484	4.853	0.00	0.00	N
ATOM	1477	NH2	ARG	95	17.067	6.655	6.618	0.00	0.00	N
ATOM	1478	H	ARG	95	17.157	-0.578	5.544	0.00	0.00	H
ATOM	1479	HA	ARG	95	16.869	0.695	7.157	0.00	0.00	H
ATOM	1480	HB2	ARG	95	17.885	2.972	6.979	0.00	0.00	H
ATOM	1481	HB3	ARG	95	18.691	1.608	6.356	0.00	0.00	H
ATOM	1482	HG2	ARG	95	19.252	3.499	4.938	0.00	0.00	H
ATOM	1483	HG3	ARG	95	18.550	2.220	4.085	0.00	0.00	H
ATOM	1484	HD2	ARG	95	17.778	4.303	3.289	0.00	0.00	H
ATOM	1485	HD3	ARG	95	16.346	3.420	3.987	0.00	0.00	H
ATOM	1486	HE	ARG	95	16.103	4.719	5.819	0.00	0.00	H
ATOM	1487	1HH1	ARG	95	18.982	5.862	4.167	0.00	0.00	H
ATOM	1488	2HH1	ARG	95	18.934	7.396	5.093	0.00	0.00	H
ATOM	1489	1HH2	ARG	95	16.209	6.317	7.030	0.00	0.00	H
ATOM	1490	2HH2	ARG	95	17.210	7.655	6.653	0.00	0.00	H
ATOM	1491	N	TYR	96	14.151	1.204	6.227	0.00	0.00	N
ATOM	1492	CA	TYR	96	12.832	1.800	6.543	0.00	0.00	C
ATOM	1493	C	TYR	96	11.734	0.821	7.063	0.00	0.00	C
ATOM	1494	O	TYR	96	10.811	1.254	7.781	0.00	0.00	O
ATOM	1495	CB	TYR	96	12.417	2.470	5.185	0.00	0.00	C
ATOM	1496	CG	TYR	96	13.020	3.852	4.661	0.00	0.00	C
ATOM	1497	CD1	TYR	96	12.777	5.092	5.349	0.00	0.00	C
ATOM	1498	CD2	TYR	96	13.602	3.917	3.353	0.00	0.00	C
ATOM	1499	CE1	TYR	96	13.342	6.308	4.887	0.00	0.00	C
ATOM	1500	CE2	TYR	96	14.328	5.090	2.951	0.00	0.00	C
ATOM	1501	CZ	TYR	96	14.181	6.216	3.778	0.00	0.00	C
ATOM	1502	OH	TYR	96	14.902	7.349	3.428	0.00	0.00	O
ATOM	1503	H	TYR	96	14.268	0.285	5.827	0.00	0.00	H
ATOM	1504	HA	TYR	96	13.064	2.518	7.329	0.00	0.00	H
ATOM	1505	HB2	TYR	96	12.472	1.722	4.394	0.00	0.00	H
ATOM	1506	HB3	TYR	96	11.371	2.738	5.331	0.00	0.00	H
ATOM	1507	HD1	TYR	96	12.382	5.094	6.355	0.00	0.00	H
ATOM	1508	HD2	TYR	96	13.835	3.055	2.748	0.00	0.00	H
ATOM	1509	HE1	TYR	96	13.242	7.259	5.389	0.00	0.00	H
ATOM	1510	HE2	TYR	96	14.963	5.035	2.078	0.00	0.00	H
ATOM	1511	HH	TYR	96	15.578	7.221	2.759	0.00	0.00	H
ATOM	1512	N	ASP	97	11.964	-0.464	6.901	0.00	0.00	N
ATOM	1513	CA	ASP	97	11.041	-1.567	7.343	0.00	0.00	C
ATOM	1514	C	ASP	97	10.929	-1.715	8.814	0.00	0.00	C
ATOM	1515	O	ASP	97	9.857	-2.001	9.348	0.00	0.00	O
ATOM	1516	CB	ASP	97	11.619	-2.957	6.844	0.00	0.00	C
ATOM	1517	CG	ASP	97	10.665	-4.111	7.036	0.00	0.00	C
ATOM	1518	OD1	ASP	97	9.493	-4.031	6.660	0.00	0.00	O
ATOM	1519	OD2	ASP	97	11.136	-5.225	7.357	0.00	0.00	O
ATOM	1520	H	ASP	97	12.778	-0.811	6.416	0.00	0.00	H
ATOM	1521	HA	ASP	97	10.036	-1.452	6.937	0.00	0.00	H
ATOM	1522	HB2	ASP	97	11.809	-2.814	5.780	0.00	0.00	H
ATOM	1523	HB3	ASP	97	12.602	-3.146	7.276	0.00	0.00	H
ATOM	1524	N	SER	98	12.084	-1.444	9.481	0.00	0.00	N
ATOM	1525	CA	SER	98	12.211	-1.536	10.899	0.00	0.00	C
ATOM	1526	C	SER	98	11.470	-0.363	11.581	0.00	0.00	C
ATOM	1527	O	SER	98	10.926	-0.535	12.699	0.00	0.00	O
ATOM	1528	CB	SER	98	13.688	-1.352	11.170	0.00	0.00	C
ATOM	1529	OG	SER	98	14.235	-0.098	10.943	0.00	0.00	O
ATOM	1530	H	SER	98	12.955	-1.267	9.002	0.00	0.00	H
ATOM	1531	HA	SER	98	11.939	-2.483	11.365	0.00	0.00	H
ATOM	1532	HB2	SER	98	14.034	-1.735	12.130	0.00	0.00	H
ATOM	1533	HB3	SER	98	14.276	-2.026	10.549	0.00	0.00	H
ATOM	1534	HG	SER	98	15.177	-0.272	10.865	0.00	0.00	H
ATOM	1535	N	GLU	99	11.260	0.774	10.862	0.00	0.00	N
ATOM	1536	CA	GLU	99	10.499	1.949	11.314	0.00	0.00	C
ATOM	1537	C	GLU	99	8.968	1.701	11.202	0.00	0.00	C
ATOM	1538	O	GLU	99	8.255	2.304	12.012	0.00	0.00	O
ATOM	1539	CB	GLU	99	10.916	3.233	10.556	0.00	0.00	C
ATOM	1540	CG	GLU	99	12.275	3.831	10.869	0.00	0.00	C
ATOM	1541	CD	GLU	99	12.415	5.300	10.425	0.00	0.00	C
ATOM	1542	OE1	GLU	99	12.645	6.182	11.300	0.00	0.00	O
ATOM	1543	OE2	GLU	99	12.400	5.614	9.243	0.00	0.00	O
ATOM	1544	H	GLU	99	11.686	0.772	9.947	0.00	0.00	H
ATOM	1545	HA	GLU	99	10.601	2.115	12.386	0.00	0.00	H
ATOM	1546	HB2	GLU	99	10.696	3.169	9.491	0.00	0.00	H
ATOM	1547	HB3	GLU	99	10.249	3.995	10.960	0.00	0.00	H
ATOM	1548	HG2	GLU	99	12.348	3.780	11.956	0.00	0.00	H

ATOM	1549	HG3	GLU	99	13.096	3.307	10.380	0.00	0.00	H
ATOM	1550	N	PHE	100	8.569	0.802	10.243	0.00	0.00	N
ATOM	1551	CA	PHE	100	7.260	0.168	10.089	0.00	0.00	C
ATOM	1552	C	PHE	100	7.011	-0.838	11.234	0.00	0.00	C
ATOM	1553	O	PHE	100	5.903	-0.865	11.675	0.00	0.00	O
ATOM	1554	CB	PHE	100	7.072	-0.325	8.674	0.00	0.00	C
ATOM	1555	CG	PHE	100	6.501	0.653	7.644	0.00	0.00	C
ATOM	1556	CD1	PHE	100	6.479	0.252	6.295	0.00	0.00	C
ATOM	1557	CD2	PHE	100	5.989	1.888	8.011	0.00	0.00	C
ATOM	1558	CE1	PHE	100	5.976	1.064	5.310	0.00	0.00	C
ATOM	1559	CE2	PHE	100	5.357	2.681	7.024	0.00	0.00	C
ATOM	1560	CZ	PHE	100	5.371	2.286	5.625	0.00	0.00	C
ATOM	1561	H	PHE	100	9.189	0.452	9.527	0.00	0.00	H
ATOM	1562	HA	PHE	100	6.474	0.887	10.326	0.00	0.00	H
ATOM	1563	HB2	PHE	100	7.963	-0.822	8.290	0.00	0.00	H
ATOM	1564	HB3	PHE	100	6.299	-1.086	8.788	0.00	0.00	H
ATOM	1565	HD1	PHE	100	6.885	-0.698	5.981	0.00	0.00	H
ATOM	1566	HD2	PHE	100	6.177	2.319	8.983	0.00	0.00	H
ATOM	1567	HE1	PHE	100	6.136	0.742	4.291	0.00	0.00	H
ATOM	1568	HE2	PHE	100	5.013	3.658	7.327	0.00	0.00	H
ATOM	1569	HZ	PHE	100	5.100	2.967	4.833	0.00	0.00	H
ATOM	1570	N	GLN	101	7.977	-1.715	11.647	0.00	0.00	N
ATOM	1571	CA	GLN	101	7.784	-2.553	12.856	0.00	0.00	C
ATOM	1572	C	GLN	101	7.543	-1.691	14.104	0.00	0.00	C
ATOM	1573	O	GLN	101	6.734	-2.047	14.974	0.00	0.00	O
ATOM	1574	CB	GLN	101	9.094	-3.415	13.048	0.00	0.00	C
ATOM	1575	CG	GLN	101	9.297	-4.494	11.996	0.00	0.00	C
ATOM	1576	CD	GLN	101	10.322	-5.474	12.583	0.00	0.00	C
ATOM	1577	NE2	GLN	101	9.997	-6.729	12.708	0.00	0.00	N
ATOM	1578	OE1	GLN	101	11.408	-5.167	13.030	0.00	0.00	O
ATOM	1579	H	GLN	101	8.889	-1.736	11.216	0.00	0.00	H
ATOM	1580	HA	GLN	101	7.027	-3.311	12.657	0.00	0.00	H
ATOM	1581	HB2	GLN	101	9.951	-2.749	13.142	0.00	0.00	H
ATOM	1582	HB3	GLN	101	8.864	-3.866	14.013	0.00	0.00	H
ATOM	1583	HG2	GLN	101	8.364	-5.019	11.792	0.00	0.00	H
ATOM	1584	HG3	GLN	101	9.799	-4.159	11.089	0.00	0.00	H
ATOM	1585	1HE2	GLN	101	10.815	-7.293	12.891	0.00	0.00	H
ATOM	1586	2HE2	GLN	101	9.176	-7.060	12.221	0.00	0.00	H
ATOM	1587	N	THR	102	8.196	-0.538	14.174	0.00	0.00	N
ATOM	1588	CA	THR	102	8.041	0.362	15.319	0.00	0.00	C
ATOM	1589	C	THR	102	6.593	0.951	15.194	0.00	0.00	C
ATOM	1590	O	THR	102	5.827	0.847	16.155	0.00	0.00	O
ATOM	1591	CB	THR	102	9.202	1.366	15.251	0.00	0.00	C
ATOM	1592	CG2	THR	102	9.239	2.332	16.424	0.00	0.00	C
ATOM	1593	OG1	THR	102	10.399	0.617	15.273	0.00	0.00	O
ATOM	1594	H	THR	102	8.995	-0.514	13.556	0.00	0.00	H
ATOM	1595	HA	THR	102	8.120	-0.198	16.252	0.00	0.00	H
ATOM	1596	HB	THR	102	9.095	1.812	14.262	0.00	0.00	H
ATOM	1597	HG1	THR	102	10.496	0.270	14.383	0.00	0.00	H
ATOM	1598	1HG2	THR	102	10.161	2.915	16.437	0.00	0.00	H
ATOM	1599	2HG2	THR	102	8.431	3.044	16.258	0.00	0.00	H
ATOM	1600	3HG2	THR	102	9.110	1.827	17.381	0.00	0.00	H
ATOM	1601	N	MET	103	6.173	1.391	13.981	0.00	0.00	N
ATOM	1602	CA	MET	103	4.786	1.931	13.758	0.00	0.00	C
ATOM	1603	C	MET	103	3.724	0.963	14.195	0.00	0.00	C
ATOM	1604	O	MET	103	2.752	1.371	14.919	0.00	0.00	O
ATOM	1605	CB	MET	103	4.600	2.365	12.344	0.00	0.00	C
ATOM	1606	CG	MET	103	3.648	3.526	12.048	0.00	0.00	C
ATOM	1607	SD	MET	103	3.859	4.170	10.345	0.00	0.00	S
ATOM	1608	CE	MET	103	2.109	4.875	10.180	0.00	0.00	C
ATOM	1609	H	MET	103	6.847	1.407	13.229	0.00	0.00	H
ATOM	1610	HA	MET	103	4.690	2.869	14.307	0.00	0.00	H
ATOM	1611	HB2	MET	103	5.567	2.771	12.042	0.00	0.00	H
ATOM	1612	HB3	MET	103	4.193	1.541	11.758	0.00	0.00	H
ATOM	1613	HG2	MET	103	2.617	3.245	12.260	0.00	0.00	H
ATOM	1614	HG3	MET	103	3.840	4.343	12.742	0.00	0.00	H
ATOM	1615	HE1	MET	103	1.289	4.173	10.332	0.00	0.00	H
ATOM	1616	HE2	MET	103	1.941	5.675	10.899	0.00	0.00	H
ATOM	1617	HE3	MET	103	2.059	5.342	9.196	0.00	0.00	H
ATOM	1618	N	LEU	104	4.017	-0.302	14.033	0.00	0.00	N
ATOM	1619	CA	LEU	104	3.012	-1.378	14.193	0.00	0.00	C
ATOM	1620	C	LEU	104	2.803	-1.987	15.661	0.00	0.00	C
ATOM	1621	O	LEU	104	1.967	-2.863	15.833	0.00	0.00	O
ATOM	1622	CB	LEU	104	3.458	-2.513	13.214	0.00	0.00	C
ATOM	1623	CG	LEU	104	2.938	-2.152	11.818	0.00	0.00	C
ATOM	1624	CD1	LEU	104	3.381	-3.246	10.784	0.00	0.00	C
ATOM	1625	CD2	LEU	104	1.400	-1.962	11.594	0.00	0.00	C
ATOM	1626	H	LEU	104	4.861	-0.596	13.565	0.00	0.00	H
ATOM	1627	HA	LEU	104	2.032	-0.989	13.921	0.00	0.00	H
ATOM	1628	HB2	LEU	104	4.541	-2.635	13.193	0.00	0.00	H
ATOM	1629	HB3	LEU	104	3.011	-3.425	13.610	0.00	0.00	H
ATOM	1630	HG	LEU	104	3.446	-1.226	11.544	0.00	0.00	H
ATOM	1631	1HD1	LEU	104	4.251	-3.788	11.152	0.00	0.00	H
ATOM	1632	2HD1	LEU	104	2.644	-4.029	10.609	0.00	0.00	H
ATOM	1633	3HD1	LEU	104	3.451	-2.790	9.796	0.00	0.00	H
ATOM	1634	1HD2	LEU	104	1.052	-0.993	11.953	0.00	0.00	H
ATOM	1635	2HD2	LEU	104	1.191	-1.924	10.525	0.00	0.00	H
ATOM	1636	3HD2	LEU	104	0.946	-2.739	12.208	0.00	0.00	H
ATOM	1637	N	GLN	105	3.455	-1.465	16.638	0.00	0.00	N
ATOM	1638	CA	GLN	105	3.365	-1.630	18.093	0.00	0.00	C
ATOM	1639	C	GLN	105	2.349	-0.647	18.713	0.00	0.00	C
ATOM	1640	O	GLN	105	2.149	-0.651	19.927	0.00	0.00	O
ATOM	1641	CB	GLN	105	4.745	-1.212	18.692	0.00	0.00	C
ATOM	1642	CG	GLN	105	5.766	-2.368	18.366	0.00	0.00	C
ATOM	1643	CD	GLN	105	7.205	-1.864	18.628	0.00	0.00	C
ATOM	1644	NE2	GLN	105	8.201	-2.263	17.920	0.00	0.00	N
ATOM	1645	OE1	GLN	105	7.396	-0.936	19.414	0.00	0.00	O
ATOM	1646	H	GLN	105	4.188	-0.892	16.246	0.00	0.00	H
ATOM	1647	HA	GLN	105	3.131	-2.658	18.372	0.00	0.00	H
ATOM	1648	HB2	GLN	105	5.093	-0.268	18.271	0.00	0.00	H
ATOM	1649	HB3	GLN	105	4.592	-0.996	19.750	0.00	0.00	H
ATOM	1650	HG2	GLN	105	5.397	-3.218	18.941	0.00	0.00	H
ATOM	1651	HG3	GLN	105	5.689	-2.666	17.321	0.00	0.00	H
ATOM	1652	1HE2	GLN	105	9.113	-1.846	18.028	0.00	0.00	H
ATOM	1653	2HE2	GLN	105	8.069	-3.115	17.392	0.00	0.00	H

ATOM	1654	N	HIP	106	1.767	0.343	17.981	0.00	0.00	N
ATOM	1655	CA	HIP	106	0.873	1.404	18.518	0.00	0.00	C
ATOM	1656	C	HIP	106	-0.652	1.131	18.376	0.00	0.00	C
ATOM	1657	O	HIP	106	-1.451	2.042	18.639	0.00	0.00	O
ATOM	1658	CB	HIP	106	1.295	2.746	17.936	0.00	0.00	C
ATOM	1659	CG	HIP	106	2.731	3.055	17.822	0.00	0.00	C
ATOM	1660	CD2	HIP	106	3.363	3.467	16.684	0.00	0.00	C
ATOM	1661	ND1	HIP	106	3.646	3.156	18.880	0.00	0.00	N
ATOM	1662	CE1	HIP	106	4.850	3.542	18.363	0.00	0.00	C
ATOM	1663	NE2	HIP	106	4.697	3.755	17.042	0.00	0.00	N
ATOM	1664	H	HIP	106	2.012	0.358	17.000	0.00	0.00	H
ATOM	1665	HA	HIP	106	1.020	1.432	19.598	0.00	0.00	H
ATOM	1666	HB2	HIP	106	0.788	2.893	16.982	0.00	0.00	H
ATOM	1667	HB3	HIP	106	0.789	3.482	18.559	0.00	0.00	H
ATOM	1668	HD1	HIP	106	3.543	2.874	19.844	0.00	0.00	H
ATOM	1669	HD2	HIP	106	2.871	3.728	15.760	0.00	0.00	H
ATOM	1670	HE1	HIP	106	5.780	3.605	18.909	0.00	0.00	H
ATOM	1671	HE2	HIP	106	5.441	4.032	16.417	0.00	0.00	H
ATOM	1672	N	LEU	107	-0.998	-0.131	18.032	0.00	0.00	N
ATOM	1673	CA	LEU	107	-2.347	-0.693	17.837	0.00	0.00	C
ATOM	1674	C	LEU	107	-2.304	-2.112	18.443	0.00	0.00	C
ATOM	1675	O	LEU	107	-1.345	-2.833	18.457	0.00	0.00	O
ATOM	1676	CB	LEU	107	-2.896	-0.706	16.350	0.00	0.00	C
ATOM	1677	CG	LEU	107	-1.950	-1.415	15.269	0.00	0.00	C
ATOM	1678	CD1	LEU	107	-2.767	-1.746	14.026	0.00	0.00	C
ATOM	1679	CD2	LEU	107	-0.722	-0.619	14.890	0.00	0.00	C
ATOM	1680	H	LEU	107	-0.265	-0.821	18.098	0.00	0.00	H
ATOM	1681	HA	LEU	107	-3.057	-0.165	18.472	0.00	0.00	H
ATOM	1682	HB2	LEU	107	-3.886	-1.164	16.335	0.00	0.00	H
ATOM	1683	HB3	LEU	107	-2.964	0.346	16.070	0.00	0.00	H
ATOM	1684	HG	LEU	107	-1.658	-2.383	15.675	0.00	0.00	H
ATOM	1685	1HD1	LEU	107	-3.632	-2.336	14.331	0.00	0.00	H
ATOM	1686	2HD1	LEU	107	-3.053	-0.838	13.494	0.00	0.00	H
ATOM	1687	3HD1	LEU	107	-2.114	-2.282	13.337	0.00	0.00	H
ATOM	1688	1HD2	LEU	107	0.121	-1.067	15.415	0.00	0.00	H
ATOM	1689	2HD2	LEU	107	-0.473	-0.759	13.837	0.00	0.00	H
ATOM	1690	3HD2	LEU	107	-0.835	0.447	15.089	0.00	0.00	H
ATOM	1691	N	GLN	108	-3.461	-2.595	18.802	0.00	0.00	N
ATOM	1692	CA	GLN	108	-3.760	-3.962	19.295	0.00	0.00	C
ATOM	1693	C	GLN	108	-3.643	-4.966	18.147	0.00	0.00	C
ATOM	1694	O	GLN	108	-3.787	-4.562	16.961	0.00	0.00	O
ATOM	1695	CB	GLN	108	-5.165	-3.918	19.816	0.00	0.00	C
ATOM	1696	CG	GLN	108	-5.470	-2.781	20.818	0.00	0.00	C
ATOM	1697	CD	GLN	108	-7.002	-2.876	21.196	0.00	0.00	C
ATOM	1698	NE2	GLN	108	-7.537	-1.811	21.735	0.00	0.00	N
ATOM	1699	OE1	GLN	108	-7.715	-3.827	21.057	0.00	0.00	O
ATOM	1700	H	GLN	108	-4.236	-1.965	18.649	0.00	0.00	H
ATOM	1701	HA	GLN	108	-3.089	-4.328	20.071	0.00	0.00	H
ATOM	1702	HB2	GLN	108	-5.948	-3.844	19.061	0.00	0.00	H
ATOM	1703	HB3	GLN	108	-5.335	-4.861	20.337	0.00	0.00	H
ATOM	1704	HG2	GLN	108	-4.861	-2.979	21.699	0.00	0.00	H
ATOM	1705	HG3	GLN	108	-5.295	-1.808	20.359	0.00	0.00	H
ATOM	1706	1HE2	GLN	108	-8.506	-1.878	22.012	0.00	0.00	H
ATOM	1707	2HE2	GLN	108	-7.111	-0.918	21.528	0.00	0.00	H
ATOM	1708	N	PRO	109	-3.520	-6.301	18.406	0.00	0.00	N
ATOM	1709	CA	PRO	109	-3.419	-7.325	17.378	0.00	0.00	C
ATOM	1710	C	PRO	109	-4.735	-7.797	16.735	0.00	0.00	C
ATOM	1711	O	PRO	109	-4.929	-9.004	16.465	0.00	0.00	O
ATOM	1712	CB	PRO	109	-2.511	-8.444	17.995	0.00	0.00	C
ATOM	1713	CG	PRO	109	-2.874	-8.426	19.444	0.00	0.00	C
ATOM	1714	CD	PRO	109	-3.065	-6.892	19.694	0.00	0.00	C
ATOM	1715	HA	PRO	109	-2.852	-6.983	16.513	0.00	0.00	H
ATOM	1716	HB2	PRO	109	-1.445	-8.234	17.920	0.00	0.00	H
ATOM	1717	HB3	PRO	109	-2.701	-9.409	17.527	0.00	0.00	H
ATOM	1718	HG2	PRO	109	-3.853	-8.859	19.646	0.00	0.00	H
ATOM	1719	HG3	PRO	109	-2.071	-8.900	20.011	0.00	0.00	H
ATOM	1720	HD2	PRO	109	-3.778	-6.849	20.518	0.00	0.00	H
ATOM	1721	HD3	PRO	109	-2.201	-6.339	20.062	0.00	0.00	H
ATOM	1722	N	THR	110	-5.636	-6.842	16.426	0.00	0.00	N
ATOM	1723	CA	THR	110	-6.974	-7.171	15.829	0.00	0.00	C
ATOM	1724	C	THR	110	-7.237	-6.472	14.494	0.00	0.00	C
ATOM	1725	O	THR	110	-6.497	-5.644	14.055	0.00	0.00	O
ATOM	1726	CB	THR	110	-8.108	-6.672	16.787	0.00	0.00	C
ATOM	1727	CG2	THR	110	-8.158	-7.442	18.121	0.00	0.00	C
ATOM	1728	OG1	THR	110	-8.107	-5.325	17.043	0.00	0.00	O
ATOM	1729	H	THR	110	-5.461	-5.861	16.587	0.00	0.00	H
ATOM	1730	HA	THR	110	-6.976	-8.242	15.636	0.00	0.00	H
ATOM	1731	HB	THR	110	-9.042	-6.900	16.273	0.00	0.00	H
ATOM	1732	HG1	THR	110	-8.707	-5.199	17.783	0.00	0.00	H
ATOM	1733	1HG2	THR	110	-8.339	-8.508	17.978	0.00	0.00	H
ATOM	1734	2HG2	THR	110	-7.267	-7.267	18.726	0.00	0.00	H
ATOM	1735	3HG2	THR	110	-9.044	-7.056	18.625	0.00	0.00	H
ATOM	1736	N	ALA	111	-8.322	-6.900	13.838	0.00	0.00	N
ATOM	1737	CA	ALA	111	-8.868	-6.319	12.599	0.00	0.00	C
ATOM	1738	C	ALA	111	-9.383	-4.939	12.793	0.00	0.00	C
ATOM	1739	O	ALA	111	-9.277	-4.018	11.992	0.00	0.00	O
ATOM	1740	CB	ALA	111	-9.918	-7.306	12.033	0.00	0.00	C
ATOM	1741	H	ALA	111	-8.753	-7.742	14.191	0.00	0.00	H
ATOM	1742	HA	ALA	111	-8.022	-6.270	11.913	0.00	0.00	H
ATOM	1743	HB1	ALA	111	-10.545	-6.857	11.264	0.00	0.00	H
ATOM	1744	HB2	ALA	111	-9.550	-8.288	11.737	0.00	0.00	H
ATOM	1745	HB3	ALA	111	-10.684	-7.418	12.801	0.00	0.00	H
ATOM	1746	N	GLU	112	-10.292	-4.859	13.747	0.00	0.00	N
ATOM	1747	CA	GLU	112	-11.118	-3.695	14.155	0.00	0.00	C
ATOM	1748	C	GLU	112	-10.127	-2.529	14.551	0.00	0.00	C
ATOM	1749	O	GLU	112	-10.169	-1.447	13.968	0.00	0.00	O
ATOM	1750	CB	GLU	112	-12.154	-4.091	15.206	0.00	0.00	C
ATOM	1751	CG	GLU	112	-13.293	-5.121	14.875	0.00	0.00	C
ATOM	1752	CD	GLU	112	-12.828	-6.567	14.981	0.00	0.00	C
ATOM	1753	OE1	GLU	112	-11.858	-6.827	15.686	0.00	0.00	O
ATOM	1754	OE2	GLU	112	-13.437	-7.480	14.349	0.00	0.00	O
ATOM	1755	H	GLU	112	-10.410	-5.719	14.261	0.00	0.00	H
ATOM	1756	HA	GLU	112	-11.665	-3.330	13.287	0.00	0.00	H
ATOM	1757	HB2	GLU	112	-11.699	-4.319	16.170	0.00	0.00	H
ATOM	1758	HB3	GLU	112	-12.558	-3.117	15.478	0.00	0.00	H

ATOM	1759	HG2	GLU	112	-14.058	-5.008	15.643	0.00	0.00	H
ATOM	1760	HG3	GLU	112	-13.777	-4.943	13.915	0.00	0.00	H
ATOM	1761	N	ASN	113	-9.041	-2.798	15.302	0.00	0.00	N
ATOM	1762	CA	ASN	113	-8.044	-1.820	15.599	0.00	0.00	C
ATOM	1763	C	ASN	113	-7.125	-1.575	14.480	0.00	0.00	C
ATOM	1764	O	ASN	113	-6.568	-0.538	14.478	0.00	0.00	O
ATOM	1765	CB	ASN	113	-7.324	-2.059	16.924	0.00	0.00	C
ATOM	1766	CG	ASN	113	-6.765	-0.871	17.619	0.00	0.00	C
ATOM	1767	ND2	ASN	113	-7.492	0.215	17.935	0.00	0.00	N
ATOM	1768	OD1	ASN	113	-5.580	-0.936	17.954	0.00	0.00	O
ATOM	1769	H	ASN	113	-9.001	-3.639	15.862	0.00	0.00	H
ATOM	1770	HA	ASN	113	-8.607	-0.898	15.745	0.00	0.00	H
ATOM	1771	HB2	ASN	113	-8.011	-2.537	17.620	0.00	0.00	H
ATOM	1772	HB3	ASN	113	-6.519	-2.790	16.852	0.00	0.00	H
ATOM	1773	1HD2	ASN	113	-7.122	0.875	18.605	0.00	0.00	H
ATOM	1774	2HD2	ASN	113	-8.484	0.277	17.766	0.00	0.00	H
ATOM	1775	N	ALA	114	-7.027	-2.555	13.556	0.00	0.00	N
ATOM	1776	CA	ALA	114	-6.324	-2.290	12.270	0.00	0.00	C
ATOM	1777	C	ALA	114	-7.089	-1.262	11.440	0.00	0.00	C
ATOM	1778	O	ALA	114	-6.500	-0.304	10.996	0.00	0.00	O
ATOM	1779	CB	ALA	114	-6.079	-3.593	11.431	0.00	0.00	C
ATOM	1780	H	ALA	114	-7.528	-3.428	13.644	0.00	0.00	H
ATOM	1781	HA	ALA	114	-5.347	-1.859	12.492	0.00	0.00	H
ATOM	1782	HB1	ALA	114	-5.123	-3.934	11.828	0.00	0.00	H
ATOM	1783	HB2	ALA	114	-6.801	-4.410	11.460	0.00	0.00	H
ATOM	1784	HB3	ALA	114	-5.968	-3.307	10.385	0.00	0.00	H
ATOM	1785	N	TYR	115	-8.396	-1.445	11.334	0.00	0.00	N
ATOM	1786	CA	TYR	115	-9.335	-0.423	10.723	0.00	0.00	C
ATOM	1787	C	TYR	115	-9.143	0.991	11.298	0.00	0.00	C
ATOM	1788	O	TYR	115	-9.083	2.052	10.600	0.00	0.00	O
ATOM	1789	CB	TYR	115	-10.837	-0.793	10.879	0.00	0.00	C
ATOM	1790	CG	TYR	115	-11.424	-1.862	10.012	0.00	0.00	C
ATOM	1791	CD1	TYR	115	-10.569	-2.815	9.391	0.00	0.00	C
ATOM	1792	CD2	TYR	115	-12.813	-1.938	9.779	0.00	0.00	C
ATOM	1793	CE1	TYR	115	-11.144	-3.711	8.469	0.00	0.00	C
ATOM	1794	CE2	TYR	115	-13.365	-2.855	8.899	0.00	0.00	C
ATOM	1795	CZ	TYR	115	-12.528	-3.783	8.227	0.00	0.00	C
ATOM	1796	OH	TYR	115	-12.975	-4.901	7.583	0.00	0.00	O
ATOM	1797	H	TYR	115	-8.779	-2.304	11.700	0.00	0.00	H
ATOM	1798	HA	TYR	115	-9.203	-0.353	9.643	0.00	0.00	H
ATOM	1799	HB2	TYR	115	-10.993	-1.138	11.901	0.00	0.00	H
ATOM	1800	HB3	TYR	115	-11.436	0.102	10.709	0.00	0.00	H
ATOM	1801	HD1	TYR	115	-9.513	-2.922	9.588	0.00	0.00	H
ATOM	1802	HD2	TYR	115	-13.413	-1.274	10.385	0.00	0.00	H
ATOM	1803	HE1	TYR	115	-10.467	-4.346	7.916	0.00	0.00	H
ATOM	1804	HE2	TYR	115	-14.440	-2.894	8.807	0.00	0.00	H
ATOM	1805	HH	TYR	115	-13.923	-4.831	7.461	0.00	0.00	H
ATOM	1806	N	GLU	116	-9.164	1.091	12.615	0.00	0.00	N
ATOM	1807	CA	GLU	116	-9.154	2.347	13.423	0.00	0.00	C
ATOM	1808	C	GLU	116	-7.826	2.969	13.302	0.00	0.00	C
ATOM	1809	O	GLU	116	-7.845	4.131	13.038	0.00	0.00	O
ATOM	1810	CB	GLU	116	-9.398	2.026	14.924	0.00	0.00	C
ATOM	1811	CG	GLU	116	-10.015	3.173	15.712	0.00	0.00	C
ATOM	1812	CD	GLU	116	-10.181	2.747	17.165	0.00	0.00	C
ATOM	1813	OE1	GLU	116	-9.720	3.411	18.097	0.00	0.00	O
ATOM	1814	OE2	GLU	116	-10.895	1.782	17.466	0.00	0.00	O
ATOM	1815	H	GLU	116	-9.173	0.220	13.128	0.00	0.00	H
ATOM	1816	HA	GLU	116	-9.975	2.909	12.978	0.00	0.00	H
ATOM	1817	HB2	GLU	116	-9.884	1.059	15.066	0.00	0.00	H
ATOM	1818	HB3	GLU	116	-8.403	1.871	15.339	0.00	0.00	H
ATOM	1819	HG2	GLU	116	-9.438	4.097	15.699	0.00	0.00	H
ATOM	1820	HG3	GLU	116	-11.022	3.423	15.379	0.00	0.00	H
ATOM	1821	N	TYR	117	-6.710	2.271	13.416	0.00	0.00	N
ATOM	1822	CA	TYR	117	-5.352	2.864	13.328	0.00	0.00	C
ATOM	1823	C	TYR	117	-5.045	3.216	11.905	0.00	0.00	C
ATOM	1824	O	TYR	117	-4.481	4.286	11.730	0.00	0.00	O
ATOM	1825	CB	TYR	117	-4.376	1.841	13.904	0.00	0.00	C
ATOM	1826	CG	TYR	117	-3.006	2.456	14.031	0.00	0.00	C
ATOM	1827	CD1	TYR	117	-2.680	3.162	15.164	0.00	0.00	C
ATOM	1828	CD2	TYR	117	-1.983	2.214	13.033	0.00	0.00	C
ATOM	1829	CE1	TYR	117	-1.460	3.724	15.339	0.00	0.00	C
ATOM	1830	CE2	TYR	117	-0.815	2.921	13.108	0.00	0.00	C
ATOM	1831	CZ	TYR	117	-0.499	3.679	14.274	0.00	0.00	C
ATOM	1832	OH	TYR	117	0.728	4.221	14.503	0.00	0.00	O
ATOM	1833	H	TYR	117	-6.890	1.299	13.617	0.00	0.00	H
ATOM	1834	HA	TYR	117	-5.283	3.716	14.006	0.00	0.00	H
ATOM	1835	HB2	TYR	117	-4.726	1.517	14.885	0.00	0.00	H
ATOM	1836	HB3	TYR	117	-4.281	1.056	13.153	0.00	0.00	H
ATOM	1837	HD1	TYR	117	-3.410	3.187	15.958	0.00	0.00	H
ATOM	1838	HD2	TYR	117	-2.227	1.648	12.146	0.00	0.00	H
ATOM	1839	HE1	TYR	117	-1.236	4.202	16.280	0.00	0.00	H
ATOM	1840	HE2	TYR	117	-0.124	2.862	12.281	0.00	0.00	H
ATOM	1841	HH	TYR	117	0.763	4.660	15.356	0.00	0.00	H
ATOM	1842	N	PHE	118	-5.428	2.411	10.923	0.00	0.00	N
ATOM	1843	CA	PHE	118	-5.437	2.845	9.483	0.00	0.00	C
ATOM	1844	C	PHE	118	-6.171	4.193	9.290	0.00	0.00	C
ATOM	1845	O	PHE	118	-5.695	5.097	8.552	0.00	0.00	O
ATOM	1846	CB	PHE	118	-5.993	1.803	8.566	0.00	0.00	C
ATOM	1847	CG	PHE	118	-5.697	2.193	7.173	0.00	0.00	C
ATOM	1848	CD1	PHE	118	-4.353	2.134	6.685	0.00	0.00	C
ATOM	1849	CD2	PHE	118	-6.689	2.678	6.312	0.00	0.00	C
ATOM	1850	CE1	PHE	118	-4.088	2.453	5.374	0.00	0.00	C
ATOM	1851	CE2	PHE	118	-6.362	3.013	4.968	0.00	0.00	C
ATOM	1852	CZ	PHE	118	-5.066	2.908	4.494	0.00	0.00	C
ATOM	1853	H	PHE	118	-5.920	1.566	11.180	0.00	0.00	H
ATOM	1854	HA	PHE	118	-4.398	2.986	9.188	0.00	0.00	H
ATOM	1855	HB2	PHE	118	-5.563	0.830	8.805	0.00	0.00	H
ATOM	1856	HB3	PHE	118	-7.081	1.842	8.616	0.00	0.00	H
ATOM	1857	HD1	PHE	118	-3.571	1.846	7.371	0.00	0.00	H
ATOM	1858	HD2	PHE	118	-7.726	2.771	6.596	0.00	0.00	H
ATOM	1859	HE1	PHE	118	-3.088	2.437	4.967	0.00	0.00	H
ATOM	1860	HE2	PHE	118	-7.097	3.418	4.288	0.00	0.00	H
ATOM	1861	HZ	PHE	118	-4.800	3.268	3.511	0.00	0.00	H
ATOM	1862	N	THR	119	-7.302	4.360	9.878	0.00	0.00	N
ATOM	1863	CA	THR	119	-8.105	5.608	9.764	0.00	0.00	C

ATOM	1864	C	THR	119	-7.411	6.793	10.458	0.00	0.00	C
ATOM	1865	O	THR	119	-7.313	7.945	9.935	0.00	0.00	O
ATOM	1866	CB	THR	119	-9.462	5.342	10.326	0.00	0.00	C
ATOM	1867	CG2	THR	119	-10.389	6.597	10.301	0.00	0.00	C
ATOM	1868	OG1	THR	119	-10.027	4.355	9.482	0.00	0.00	O
ATOM	1869	H	THR	119	-7.592	3.719	10.601	0.00	0.00	H
ATOM	1870	HA	THR	119	-8.300	5.919	8.738	0.00	0.00	H
ATOM	1871	HB	THR	119	-9.331	5.078	11.375	0.00	0.00	H
ATOM	1872	HG1	THR	119	-9.572	3.601	9.865	0.00	0.00	H
ATOM	1873	1HG2	THR	119	-10.090	7.548	10.741	0.00	0.00	H
ATOM	1874	2HG2	THR	119	-10.753	6.759	9.287	0.00	0.00	H
ATOM	1875	3HG2	THR	119	-11.317	6.439	10.850	0.00	0.00	H
ATOM	1876	N	LYS	120	-6.812	6.533	11.648	0.00	0.00	N
ATOM	1877	CA	LYS	120	-6.187	7.514	12.580	0.00	0.00	C
ATOM	1878	C	LYS	120	-4.969	8.047	11.934	0.00	0.00	C
ATOM	1879	O	LYS	120	-4.855	9.234	11.806	0.00	0.00	O
ATOM	1880	CB	LYS	120	-5.860	6.825	13.949	0.00	0.00	C
ATOM	1881	CG	LYS	120	-6.908	6.745	14.996	0.00	0.00	C
ATOM	1882	CD	LYS	120	-6.447	5.734	16.075	0.00	0.00	C
ATOM	1883	CE	LYS	120	-7.320	5.534	17.271	0.00	0.00	C
ATOM	1884	NZ	LYS	120	-7.676	6.776	17.881	0.00	0.00	N
ATOM	1885	H	LYS	120	-6.973	5.635	12.080	0.00	0.00	H
ATOM	1886	HA	LYS	120	-6.825	8.381	12.753	0.00	0.00	H
ATOM	1887	HB2	LYS	120	-5.597	5.816	13.632	0.00	0.00	H
ATOM	1888	HB3	LYS	120	-4.917	7.226	14.319	0.00	0.00	H
ATOM	1889	HG2	LYS	120	-6.893	7.686	15.544	0.00	0.00	H
ATOM	1890	HG3	LYS	120	-7.933	6.529	14.693	0.00	0.00	H
ATOM	1891	HD2	LYS	120	-6.288	4.730	15.680	0.00	0.00	H
ATOM	1892	HD3	LYS	120	-5.459	6.067	16.393	0.00	0.00	H
ATOM	1893	HE2	LYS	120	-8.222	5.036	16.913	0.00	0.00	H
ATOM	1894	HE3	LYS	120	-6.851	4.830	17.958	0.00	0.00	H
ATOM	1895	HZ1	LYS	120	-6.858	7.278	18.193	0.00	0.00	H
ATOM	1896	HZ2	LYS	120	-8.230	7.402	17.315	0.00	0.00	H
ATOM	1897	HZ3	LYS	120	-8.244	6.749	18.714	0.00	0.00	H
ATOM	1898	N	ILE	121	-4.100	7.216	11.287	0.00	0.00	N
ATOM	1899	CA	ILE	121	-2.967	7.760	10.550	0.00	0.00	C
ATOM	1900	C	ILE	121	-3.406	8.464	9.197	0.00	0.00	C
ATOM	1901	O	ILE	121	-2.937	9.545	8.907	0.00	0.00	O
ATOM	1902	CB	ILE	121	-1.897	6.702	10.354	0.00	0.00	C
ATOM	1903	CG1	ILE	121	-2.157	5.485	9.394	0.00	0.00	C
ATOM	1904	CG2	ILE	121	-1.525	6.163	11.729	0.00	0.00	C
ATOM	1905	CD1	ILE	121	-2.130	5.542	7.911	0.00	0.00	C
ATOM	1906	H	ILE	121	-4.201	6.214	11.194	0.00	0.00	H
ATOM	1907	HA	ILE	121	-2.521	8.517	11.197	0.00	0.00	H
ATOM	1908	HB	ILE	121	-1.087	7.337	9.998	0.00	0.00	H
ATOM	1909	2HG1	ILE	121	-1.334	4.811	9.631	0.00	0.00	H
ATOM	1910	3HG1	ILE	121	-2.998	4.839	9.643	0.00	0.00	H
ATOM	1911	1HG2	ILE	121	-2.297	5.461	12.044	0.00	0.00	H
ATOM	1912	2HG2	ILE	121	-0.575	5.636	11.827	0.00	0.00	H
ATOM	1913	3HG2	ILE	121	-1.692	6.956	12.458	0.00	0.00	H
ATOM	1914	1HD1	ILE	121	-2.992	6.098	7.541	0.00	0.00	H
ATOM	1915	2HD1	ILE	121	-1.369	6.199	7.489	0.00	0.00	H
ATOM	1916	3HD1	ILE	121	-2.110	4.569	7.420	0.00	0.00	H
ATOM	1917	N	ALA	122	-4.328	7.825	8.464	0.00	0.00	N
ATOM	1918	CA	ALA	122	-4.720	8.231	7.115	0.00	0.00	C
ATOM	1919	C	ALA	122	-5.455	9.543	7.001	0.00	0.00	C
ATOM	1920	O	ALA	122	-5.275	10.193	6.001	0.00	0.00	O
ATOM	1921	CB	ALA	122	-5.605	7.152	6.372	0.00	0.00	C
ATOM	1922	H	ALA	122	-4.519	6.901	8.821	0.00	0.00	H
ATOM	1923	HA	ALA	122	-3.787	8.328	6.560	0.00	0.00	H
ATOM	1924	HB1	ALA	122	-4.997	6.247	6.387	0.00	0.00	H
ATOM	1925	HB2	ALA	122	-6.543	6.977	6.899	0.00	0.00	H
ATOM	1926	HB3	ALA	122	-5.771	7.554	5.373	0.00	0.00	H
ATOM	1927	N	THR	123	-6.187	9.936	8.072	0.00	0.00	N
ATOM	1928	CA	THR	123	-6.838	11.263	8.212	0.00	0.00	C
ATOM	1929	C	THR	123	-5.867	12.417	8.560	0.00	0.00	C
ATOM	1930	O	THR	123	-6.339	13.583	8.522	0.00	0.00	O
ATOM	1931	CB	THR	123	-8.080	11.227	9.114	0.00	0.00	C
ATOM	1932	CG2	THR	123	-9.190	10.354	8.619	0.00	0.00	C
ATOM	1933	OG1	THR	123	-7.722	10.901	10.446	0.00	0.00	O
ATOM	1934	H	THR	123	-6.205	9.259	8.821	0.00	0.00	H
ATOM	1935	HA	THR	123	-7.192	11.526	7.214	0.00	0.00	H
ATOM	1936	HB	THR	123	-8.344	12.285	9.106	0.00	0.00	H
ATOM	1937	HG1	THR	123	-7.530	9.968	10.564	0.00	0.00	H
ATOM	1938	1HG2	THR	123	-8.815	9.371	8.332	0.00	0.00	H
ATOM	1939	2HG2	THR	123	-9.888	10.336	9.457	0.00	0.00	H
ATOM	1940	3HG2	THR	123	-9.703	10.850	7.795	0.00	0.00	H
ATOM	1941	N	SER	124	-4.558	12.157	8.832	0.00	0.00	N
ATOM	1942	CA	SER	124	-3.596	13.239	8.846	0.00	0.00	C
ATOM	1943	C	SER	124	-2.430	13.242	7.809	0.00	0.00	C
ATOM	1944	O	SER	124	-1.680	14.210	7.672	0.00	0.00	O
ATOM	1945	CB	SER	124	-3.104	13.662	10.243	0.00	0.00	C
ATOM	1946	OG	SER	124	-4.131	14.066	11.094	0.00	0.00	O
ATOM	1947	H	SER	124	-4.123	11.258	8.977	0.00	0.00	H
ATOM	1948	HA	SER	124	-4.101	14.166	8.571	0.00	0.00	H
ATOM	1949	HB2	SER	124	-2.631	12.792	10.702	0.00	0.00	H
ATOM	1950	HB3	SER	124	-2.350	14.449	10.191	0.00	0.00	H
ATOM	1951	HG	SER	124	-4.390	13.234	11.498	0.00	0.00	H
ATOM	1952	N	LEU	125	-2.418	12.233	6.949	0.00	0.00	N
ATOM	1953	CA	LEU	125	-1.417	12.032	5.874	0.00	0.00	C
ATOM	1954	C	LEU	125	-1.529	13.047	4.698	0.00	0.00	C
ATOM	1955	O	LEU	125	-0.537	13.471	4.102	0.00	0.00	O
ATOM	1956	CB	LEU	125	-1.582	10.527	5.532	0.00	0.00	C
ATOM	1957	CG	LEU	125	-0.724	10.106	4.317	0.00	0.00	C
ATOM	1958	CD1	LEU	125	0.741	10.236	4.661	0.00	0.00	C
ATOM	1959	CD2	LEU	125	-1.104	8.729	3.930	0.00	0.00	C
ATOM	1960	H	LEU	125	-3.021	11.437	7.106	0.00	0.00	H
ATOM	1961	HA	LEU	125	-0.405	12.242	6.222	0.00	0.00	H
ATOM	1962	HB2	LEU	125	-1.326	9.872	6.365	0.00	0.00	H
ATOM	1963	HB3	LEU	125	-2.618	10.325	5.258	0.00	0.00	H
ATOM	1964	HG	LEU	125	-1.094	10.755	3.522	0.00	0.00	H
ATOM	1965	1HD1	LEU	125	1.445	9.707	4.018	0.00	0.00	H
ATOM	1966	2HD1	LEU	125	0.998	9.719	5.584	0.00	0.00	H
ATOM	1967	3HD1	LEU	125	1.087	11.268	4.680	0.00	0.00	H
ATOM	1968	1HD2	LEU	125	-2.185	8.685	3.798	0.00	0.00	H

ATOM	1969	ZHD2	LEU	125	-0.599	8.337	3.046	0.00	0.00	H
ATOM	1970	3HD2	LEU	125	-0.733	8.014	4.665	0.00	0.00	H
ATOM	1971	N	PHE	126	-2.682	13.457	4.422	0.00	0.00	N
ATOM	1972	CA	PHE	126	-3.081	14.203	3.201	0.00	0.00	C
ATOM	1973	C	PHE	126	-3.586	15.614	3.377	0.00	0.00	C
ATOM	1974	O	PHE	126	-3.575	16.414	2.443	0.00	0.00	O
ATOM	1975	CB	PHE	126	-4.094	13.454	2.429	0.00	0.00	C
ATOM	1976	CG	PHE	126	-3.765	12.001	2.167	0.00	0.00	C
ATOM	1977	CD1	PHE	126	-2.851	11.635	1.150	0.00	0.00	C
ATOM	1978	CD2	PHE	126	-4.710	11.004	2.616	0.00	0.00	C
ATOM	1979	CE1	PHE	126	-2.834	10.372	0.585	0.00	0.00	C
ATOM	1980	CE2	PHE	126	-4.599	9.659	2.127	0.00	0.00	C
ATOM	1981	CZ	PHE	126	-3.597	9.359	1.129	0.00	0.00	C
ATOM	1982	H	PHE	126	-3.450	13.218	5.033	0.00	0.00	H
ATOM	1983	HA	PHE	126	-2.289	14.128	2.457	0.00	0.00	H
ATOM	1984	HB2	PHE	126	-4.996	13.407	3.040	0.00	0.00	H
ATOM	1985	HB3	PHE	126	-4.363	14.011	1.533	0.00	0.00	H
ATOM	1986	HD1	PHE	126	-2.223	12.406	0.729	0.00	0.00	H
ATOM	1987	HD2	PHE	126	-5.530	11.274	3.264	0.00	0.00	H
ATOM	1988	HE1	PHE	126	-2.085	10.056	-0.129	0.00	0.00	H
ATOM	1989	HE2	PHE	126	-5.193	8.861	2.550	0.00	0.00	H
ATOM	1990	HZ	PHE	126	-3.530	8.356	0.733	0.00	0.00	H
ATOM	1991	N	GLU	127	-4.032	15.984	4.583	0.00	0.00	N
ATOM	1992	CA	GLU	127	-4.818	17.157	4.771	0.00	0.00	C
ATOM	1993	C	GLU	127	-4.010	18.506	4.723	0.00	0.00	C
ATOM	1994	O	GLU	127	-4.640	19.508	4.451	0.00	0.00	O
ATOM	1995	CB	GLU	127	-5.699	16.921	6.015	0.00	0.00	C
ATOM	1996	CG	GLU	127	-5.010	16.640	7.399	0.00	0.00	C
ATOM	1997	CD	GLU	127	-4.180	17.858	7.734	0.00	0.00	C
ATOM	1998	OE1	GLU	127	-4.811	18.852	8.148	0.00	0.00	O
ATOM	1999	OE2	GLU	127	-2.920	17.752	7.790	0.00	0.00	O
ATOM	2000	H	GLU	127	-4.075	15.321	5.343	0.00	0.00	H
ATOM	2001	HA	GLU	127	-5.531	17.173	3.946	0.00	0.00	H
ATOM	2002	HB2	GLU	127	-6.389	17.765	6.063	0.00	0.00	H
ATOM	2003	HB3	GLU	127	-6.386	16.121	5.735	0.00	0.00	H
ATOM	2004	HG2	GLU	127	-5.845	16.513	8.088	0.00	0.00	H
ATOM	2005	HG3	GLU	127	-4.426	15.721	7.382	0.00	0.00	H
ATOM	2006	N	SER	128	-2.738	18.521	4.901	0.00	0.00	N
ATOM	2007	CA	SER	128	-1.853	19.657	4.745	0.00	0.00	C
ATOM	2008	C	SER	128	-1.145	19.644	3.372	0.00	0.00	C
ATOM	2009	O	SER	128	-0.507	20.669	3.051	0.00	0.00	O
ATOM	2010	CB	SER	128	-0.947	19.846	5.971	0.00	0.00	C
ATOM	2011	OG	SER	128	-1.736	20.072	7.145	0.00	0.00	O
ATOM	2012	H	SER	128	-2.259	17.649	5.074	0.00	0.00	H
ATOM	2013	HA	SER	128	-2.416	20.590	4.705	0.00	0.00	H
ATOM	2014	HB2	SER	128	-0.392	18.930	6.167	0.00	0.00	H
ATOM	2015	HB3	SER	128	-0.256	20.675	5.821	0.00	0.00	H
ATOM	2016	HG	SER	128	-2.342	19.330	7.202	0.00	0.00	H
ATOM	2017	N	GLY	129	-1.367	18.595	2.592	0.00	0.00	N
ATOM	2018	CA	GLY	129	-0.927	18.462	1.206	0.00	0.00	C
ATOM	2019	C	GLY	129	-1.039	17.047	0.712	0.00	0.00	C
ATOM	2020	O	GLY	129	-0.716	16.149	1.468	0.00	0.00	O
ATOM	2021	H	GLY	129	-2.058	17.927	2.904	0.00	0.00	H
ATOM	2022	HA2	GLY	129	-1.580	19.059	0.570	0.00	0.00	H
ATOM	2023	HA3	GLY	129	0.130	18.726	1.192	0.00	0.00	H
ATOM	2024	N	ILE	130	-1.529	16.775	-0.498	0.00	0.00	N
ATOM	2025	CA	ILE	130	-1.512	15.486	-1.174	0.00	0.00	C
ATOM	2026	C	ILE	130	-0.491	15.608	-2.354	0.00	0.00	C
ATOM	2027	O	ILE	130	-0.463	16.542	-3.128	0.00	0.00	O
ATOM	2028	CB	ILE	130	-2.941	14.902	-1.475	0.00	0.00	C
ATOM	2029	CG1	ILE	130	-2.876	13.502	-2.074	0.00	0.00	C
ATOM	2030	CG2	ILE	130	-3.566	15.735	-2.552	0.00	0.00	C
ATOM	2031	CD1	ILE	130	-4.178	12.642	-1.911	0.00	0.00	C
ATOM	2032	H	ILE	130	-1.804	17.510	-1.132	0.00	0.00	H
ATOM	2033	HA	ILE	130	-0.991	14.772	-0.535	0.00	0.00	H
ATOM	2034	HB	ILE	130	-3.636	14.954	-0.637	0.00	0.00	H
ATOM	2035	ZHG1	ILE	130	-2.653	13.543	-3.142	0.00	0.00	H
ATOM	2036	3HG1	ILE	130	-2.113	13.032	-1.453	0.00	0.00	H
ATOM	2037	1HG2	ILE	130	-3.704	16.685	-2.036	0.00	0.00	H
ATOM	2038	ZHG2	ILE	130	-2.931	15.866	-3.427	0.00	0.00	H
ATOM	2039	3HG2	ILE	130	-4.551	15.306	-2.740	0.00	0.00	H
ATOM	2040	1HD1	ILE	130	-4.466	12.624	-0.859	0.00	0.00	H
ATOM	2041	ZHD1	ILE	130	-4.931	13.040	-2.589	0.00	0.00	H
ATOM	2042	3HD1	ILE	130	-4.040	11.647	-2.335	0.00	0.00	H
ATOM	2043	N	ASN	131	0.414	14.611	-2.513	0.00	0.00	N
ATOM	2044	CA	ASN	131	1.321	14.386	-3.633	0.00	0.00	C
ATOM	2045	C	ASN	131	1.368	12.940	-4.029	0.00	0.00	C
ATOM	2046	O	ASN	131	0.705	12.103	-3.450	0.00	0.00	O
ATOM	2047	CB	ASN	131	2.739	14.995	-3.338	0.00	0.00	C
ATOM	2048	CG	ASN	131	3.523	14.361	-2.295	0.00	0.00	C
ATOM	2049	ND2	ASN	131	4.157	15.163	-1.493	0.00	0.00	N
ATOM	2050	OD1	ASN	131	3.556	13.135	-2.114	0.00	0.00	O
ATOM	2051	H	ASN	131	0.122	13.774	-2.027	0.00	0.00	H
ATOM	2052	HA	ASN	131	0.920	15.002	-4.437	0.00	0.00	H
ATOM	2053	HB2	ASN	131	3.257	14.966	-4.297	0.00	0.00	H
ATOM	2054	HB3	ASN	131	2.611	16.032	-3.025	0.00	0.00	H
ATOM	2055	1HD2	ASN	131	4.638	14.833	-0.669	0.00	0.00	H
ATOM	2056	ZHD2	ASN	131	4.094	16.160	-1.647	0.00	0.00	H
ATOM	2057	N	TRP	132	2.143	12.571	-5.044	0.00	0.00	N
ATOM	2058	CA	TRP	132	2.344	11.262	-5.547	0.00	0.00	C
ATOM	2059	C	TRP	132	2.880	10.264	-4.518	0.00	0.00	C
ATOM	2060	O	TRP	132	2.288	9.197	-4.410	0.00	0.00	O
ATOM	2061	CB	TRP	132	3.260	11.245	-6.794	0.00	0.00	C
ATOM	2062	CG	TRP	132	3.319	9.976	-7.493	0.00	0.00	C
ATOM	2063	CD1	TRP	132	4.348	9.653	-8.293	0.00	0.00	C
ATOM	2064	CD2	TRP	132	2.366	8.868	-7.670	0.00	0.00	C
ATOM	2065	CE2	TRP	132	2.973	7.926	-8.584	0.00	0.00	C
ATOM	2066	CE3	TRP	132	1.070	8.593	-7.223	0.00	0.00	C
ATOM	2067	NE1	TRP	132	4.197	8.434	-8.872	0.00	0.00	N
ATOM	2068	CZ2	TRP	132	2.208	6.821	-9.035	0.00	0.00	C
ATOM	2069	CZ3	TRP	132	0.343	7.502	-7.658	0.00	0.00	C
ATOM	2070	CH2	TRP	132	0.907	6.636	-8.582	0.00	0.00	C
ATOM	2071	H	TRP	132	2.625	13.280	-5.578	0.00	0.00	H
ATOM	2072	HA	TRP	132	1.327	11.058	-5.883	0.00	0.00	H
ATOM	2073	HB2	TRP	132	2.895	11.964	-7.528	0.00	0.00	H

ATOM	2074	HB3	TRP	132	4.286	11.469	-6.500	0.00	0.00	H
ATOM	2075	HD1	TRP	132	5.126	10.333	-8.606	0.00	0.00	H
ATOM	2076	HE1	TRP	132	4.884	8.103	-9.533	0.00	0.00	H
ATOM	2077	HE3	TRP	132	0.560	9.293	-6.578	0.00	0.00	H
ATOM	2078	HZ2	TRP	132	2.735	6.262	-9.790	0.00	0.00	H
ATOM	2079	HZ3	TRP	132	-0.644	7.245	-7.301	0.00	0.00	H
ATOM	2080	HH2	TRP	132	0.328	5.768	-8.859	0.00	0.00	H
ATOM	2081	N	GLY	133	3.920	10.578	-3.734	0.00	0.00	N
ATOM	2082	CA	GLY	133	4.569	9.711	-2.694	0.00	0.00	C
ATOM	2083	C	GLY	133	3.869	9.528	-1.377	0.00	0.00	C
ATOM	2084	O	GLY	133	4.079	8.516	-0.732	0.00	0.00	O
ATOM	2085	H	GLY	133	4.460	11.403	-3.954	0.00	0.00	H
ATOM	2086	HA2	GLY	133	4.826	8.722	-3.074	0.00	0.00	H
ATOM	2087	HA3	GLY	133	5.467	10.242	-2.377	0.00	0.00	H
ATOM	2088	N	ARG	134	3.026	10.468	-1.049	0.00	0.00	N
ATOM	2089	CA	ARG	134	2.041	10.316	0.083	0.00	0.00	C
ATOM	2090	C	ARG	134	0.842	9.437	-0.368	0.00	0.00	C
ATOM	2091	O	ARG	134	0.399	8.682	0.449	0.00	0.00	O
ATOM	2092	CB	ARG	134	1.507	11.716	0.498	0.00	0.00	C
ATOM	2093	CG	ARG	134	2.514	12.615	1.185	0.00	0.00	C
ATOM	2094	CD	ARG	134	2.130	14.077	1.273	0.00	0.00	C
ATOM	2095	NE	ARG	134	3.129	14.977	1.829	0.00	0.00	N
ATOM	2096	CZ	ARG	134	2.922	16.136	2.421	0.00	0.00	C
ATOM	2097	NH1	ARG	134	1.788	16.584	2.787	0.00	0.00	N
ATOM	2098	NH2	ARG	134	3.993	16.738	2.826	0.00	0.00	N
ATOM	2099	H	ARG	134	3.201	11.369	-1.468	0.00	0.00	H
ATOM	2100	HA	ARG	134	2.515	9.792	0.914	0.00	0.00	H
ATOM	2101	HB2	ARG	134	1.095	12.087	-0.442	0.00	0.00	H
ATOM	2102	HB3	ARG	134	0.709	11.613	1.234	0.00	0.00	H
ATOM	2103	HG2	ARG	134	2.880	12.192	2.121	0.00	0.00	H
ATOM	2104	HG3	ARG	134	3.340	12.653	0.475	0.00	0.00	H
ATOM	2105	HD2	ARG	134	1.964	14.415	0.250	0.00	0.00	H
ATOM	2106	HD3	ARG	134	1.128	14.166	1.693	0.00	0.00	H
ATOM	2107	HE	ARG	134	4.098	14.807	1.603	0.00	0.00	H
ATOM	2108	1HH1	ARG	134	0.926	16.204	2.423	0.00	0.00	H
ATOM	2109	2HH1	ARG	134	1.836	17.486	3.238	0.00	0.00	H
ATOM	2110	1HH2	ARG	134	4.865	16.435	2.418	0.00	0.00	H
ATOM	2111	2HH2	ARG	134	3.858	17.505	3.469	0.00	0.00	H
ATOM	2112	N	VAL	135	0.558	9.343	-1.637	0.00	0.00	N
ATOM	2113	CA	VAL	135	-0.418	8.349	-2.153	0.00	0.00	C
ATOM	2114	C	VAL	135	0.258	6.954	-2.182	0.00	0.00	C
ATOM	2115	O	VAL	135	-0.431	6.044	-1.745	0.00	0.00	O
ATOM	2116	CB	VAL	135	-1.179	8.737	-3.439	0.00	0.00	C
ATOM	2117	CG1	VAL	135	-1.987	7.556	-3.981	0.00	0.00	C
ATOM	2118	CG2	VAL	135	-2.118	9.975	-3.282	0.00	0.00	C
ATOM	2119	H	VAL	135	1.145	9.847	-2.285	0.00	0.00	H
ATOM	2120	HA	VAL	135	-1.223	8.192	-1.435	0.00	0.00	H
ATOM	2121	HB	VAL	135	-0.488	9.036	-4.225	0.00	0.00	H
ATOM	2122	1HG1	VAL	135	-2.638	7.092	-3.240	0.00	0.00	H
ATOM	2123	2HG1	VAL	135	-2.588	8.018	-4.764	0.00	0.00	H
ATOM	2124	3HG1	VAL	135	-1.281	6.777	-4.271	0.00	0.00	H
ATOM	2125	1HG2	VAL	135	-2.681	10.198	-4.187	0.00	0.00	H
ATOM	2126	2HG2	VAL	135	-2.784	9.815	-2.434	0.00	0.00	H
ATOM	2127	3HG2	VAL	135	-1.591	10.876	-2.971	0.00	0.00	H
ATOM	2128	N	VAL	136	1.517	6.778	-2.548	0.00	0.00	N
ATOM	2129	CA	VAL	136	2.178	5.429	-2.674	0.00	0.00	C
ATOM	2130	C	VAL	136	2.679	4.893	-1.383	0.00	0.00	C
ATOM	2131	O	VAL	136	2.570	3.673	-1.208	0.00	0.00	O
ATOM	2132	CB	VAL	136	3.261	5.513	-3.784	0.00	0.00	C
ATOM	2133	CG1	VAL	136	4.009	4.106	-3.770	0.00	0.00	C
ATOM	2134	CG2	VAL	136	2.709	5.894	-5.196	0.00	0.00	C
ATOM	2135	H	VAL	136	2.043	7.606	-2.788	0.00	0.00	H
ATOM	2136	HA	VAL	136	1.453	4.692	-3.020	0.00	0.00	H
ATOM	2137	HB	VAL	136	3.910	6.327	-3.465	0.00	0.00	H
ATOM	2138	1HG1	VAL	136	4.605	3.987	-2.866	0.00	0.00	H
ATOM	2139	2HG1	VAL	136	3.430	3.198	-3.942	0.00	0.00	H
ATOM	2140	3HG1	VAL	136	4.618	4.076	-4.675	0.00	0.00	H
ATOM	2141	1HG2	VAL	136	2.071	5.065	-5.504	0.00	0.00	H
ATOM	2142	2HG2	VAL	136	2.138	6.823	-5.215	0.00	0.00	H
ATOM	2143	3HG2	VAL	136	3.536	5.910	-5.906	0.00	0.00	H
ATOM	2144	N	ALA	137	3.002	5.743	-0.385	0.00	0.00	N
ATOM	2145	CA	ALA	137	3.310	5.262	0.990	0.00	0.00	C
ATOM	2146	C	ALA	137	2.138	4.613	1.745	0.00	0.00	C
ATOM	2147	O	ALA	137	2.372	3.600	2.462	0.00	0.00	O
ATOM	2148	CB	ALA	137	3.890	6.457	1.680	0.00	0.00	C
ATOM	2149	H	ALA	137	3.402	6.639	-0.620	0.00	0.00	H
ATOM	2150	HA	ALA	137	4.119	4.541	0.873	0.00	0.00	H
ATOM	2151	HB1	ALA	137	3.055	7.109	1.938	0.00	0.00	H
ATOM	2152	HB2	ALA	137	4.311	6.085	2.613	0.00	0.00	H
ATOM	2153	HB3	ALA	137	4.767	6.912	1.218	0.00	0.00	H
ATOM	2154	N	LEU	138	0.896	4.988	1.482	0.00	0.00	N
ATOM	2155	CA	LEU	138	-0.219	4.342	2.125	0.00	0.00	C
ATOM	2156	C	LEU	138	-0.405	2.892	1.714	0.00	0.00	C
ATOM	2157	O	LEU	138	-0.823	2.088	2.534	0.00	0.00	O
ATOM	2158	CB	LEU	138	-1.454	5.194	2.043	0.00	0.00	C
ATOM	2159	CG	LEU	138	-2.581	4.911	3.042	0.00	0.00	C
ATOM	2160	CD1	LEU	138	-2.184	4.964	4.523	0.00	0.00	C
ATOM	2161	CD2	LEU	138	-3.709	5.894	2.900	0.00	0.00	C
ATOM	2162	H	LEU	138	0.614	5.760	0.894	0.00	0.00	H
ATOM	2163	HA	LEU	138	0.036	4.253	3.181	0.00	0.00	H
ATOM	2164	HB2	LEU	138	-1.228	6.237	2.256	0.00	0.00	H
ATOM	2165	HB3	LEU	138	-1.716	5.096	0.988	0.00	0.00	H
ATOM	2166	HG	LEU	138	-2.893	3.917	2.725	0.00	0.00	H
ATOM	2167	1HD1	LEU	138	-1.735	5.950	4.637	0.00	0.00	H
ATOM	2168	2HD1	LEU	138	-3.010	4.792	5.213	0.00	0.00	H
ATOM	2169	3HD1	LEU	138	-1.515	4.113	4.663	0.00	0.00	H
ATOM	2170	1HD2	LEU	138	-4.598	5.565	3.438	0.00	0.00	H
ATOM	2171	2HD2	LEU	138	-3.430	6.903	3.205	0.00	0.00	H
ATOM	2172	3HD2	LEU	138	-3.994	6.042	1.858	0.00	0.00	H
ATOM	2173	N	LEU	139	-0.134	2.556	0.461	0.00	0.00	N
ATOM	2174	CA	LEU	139	-0.125	1.163	-0.005	0.00	0.00	C
ATOM	2175	C	LEU	139	1.098	0.411	0.674	0.00	0.00	C
ATOM	2176	O	LEU	139	0.893	-0.699	1.168	0.00	0.00	O
ATOM	2177	CB	LEU	139	-0.003	1.038	-1.514	0.00	0.00	C
ATOM	2178	CG	LEU	139	-1.093	1.489	-2.476	0.00	0.00	C

ATOM	2179	CD1	LEU	139	-0.905	0.882	-3.811	0.00	0.00	C
ATOM	2180	CD2	LEU	139	-2.543	1.294	-1.904	0.00	0.00	C
ATOM	2181	H	LEU	139	0.193	3.244	-0.203	0.00	0.00	H
ATOM	2182	HA	LEU	139	-1.014	0.623	0.317	0.00	0.00	H
ATOM	2183	HB2	LEU	139	0.923	1.536	-1.803	0.00	0.00	H
ATOM	2184	HB3	LEU	139	0.263	-0.013	-1.634	0.00	0.00	H
ATOM	2185	HG	LEU	139	-1.012	2.573	-2.559	0.00	0.00	H
ATOM	2186	1HD1	LEU	139	-0.720	-0.184	-3.685	0.00	0.00	H
ATOM	2187	2HD1	LEU	139	-1.833	0.965	-4.378	0.00	0.00	H
ATOM	2188	3HD1	LEU	139	-0.131	1.466	-4.309	0.00	0.00	H
ATOM	2189	1HD2	LEU	139	-2.756	0.225	-1.884	0.00	0.00	H
ATOM	2190	2HD2	LEU	139	-2.671	1.780	-0.937	0.00	0.00	H
ATOM	2191	3HD2	LEU	139	-3.216	1.740	-2.636	0.00	0.00	H
ATOM	2192	N	GLY	140	2.259	1.013	0.731	0.00	0.00	N
ATOM	2193	CA	GLY	140	3.403	0.338	1.383	0.00	0.00	C
ATOM	2194	C	GLY	140	3.336	0.063	2.928	0.00	0.00	C
ATOM	2195	O	GLY	140	3.931	-0.859	3.511	0.00	0.00	O
ATOM	2196	H	GLY	140	2.265	1.982	0.444	0.00	0.00	H
ATOM	2197	HA2	GLY	140	3.457	-0.698	1.049	0.00	0.00	H
ATOM	2198	HA3	GLY	140	4.369	0.816	1.216	0.00	0.00	H
ATOM	2199	N	PHE	141	2.604	0.930	3.630	0.00	0.00	N
ATOM	2200	CA	PHE	141	2.068	0.677	5.001	0.00	0.00	C
ATOM	2201	C	PHE	141	1.009	-0.364	4.990	0.00	0.00	C
ATOM	2202	O	PHE	141	0.890	-1.187	5.928	0.00	0.00	O
ATOM	2203	CB	PHE	141	1.589	2.015	5.561	0.00	0.00	C
ATOM	2204	CG	PHE	141	1.012	1.917	6.948	0.00	0.00	C
ATOM	2205	CD1	PHE	141	1.765	1.379	8.006	0.00	0.00	C
ATOM	2206	CD2	PHE	141	-0.319	2.312	7.254	0.00	0.00	C
ATOM	2207	CE1	PHE	141	1.265	1.261	9.294	0.00	0.00	C
ATOM	2208	CE2	PHE	141	-0.868	2.163	8.585	0.00	0.00	C
ATOM	2209	CZ	PHE	141	-0.056	1.580	9.579	0.00	0.00	C
ATOM	2210	H	PHE	141	2.315	1.771	3.155	0.00	0.00	H
ATOM	2211	HA	PHE	141	2.926	0.249	5.518	0.00	0.00	H
ATOM	2212	HB2	PHE	141	2.444	2.684	5.649	0.00	0.00	H
ATOM	2213	HB3	PHE	141	0.877	2.539	4.923	0.00	0.00	H
ATOM	2214	HD1	PHE	141	2.807	1.196	7.790	0.00	0.00	H
ATOM	2215	HD2	PHE	141	-0.924	2.757	6.477	0.00	0.00	H
ATOM	2216	HE1	PHE	141	1.847	0.820	10.091	0.00	0.00	H
ATOM	2217	HE2	PHE	141	-1.902	2.427	8.750	0.00	0.00	H
ATOM	2218	HZ	PHE	141	-0.523	1.297	10.511	0.00	0.00	H
ATOM	2219	N	GLY	142	0.146	-0.368	3.946	0.00	0.00	N
ATOM	2220	CA	GLY	142	-1.021	-1.179	3.711	0.00	0.00	C
ATOM	2221	C	GLY	142	-0.645	-2.627	3.664	0.00	0.00	C
ATOM	2222	O	GLY	142	-1.159	-3.449	4.406	0.00	0.00	O
ATOM	2223	H	GLY	142	0.357	0.225	3.157	0.00	0.00	H
ATOM	2224	HA2	GLY	142	-1.852	-1.088	4.413	0.00	0.00	H
ATOM	2225	HA3	GLY	142	-1.381	-0.840	2.739	0.00	0.00	H
ATOM	2226	N	TYR	143	0.262	-2.992	2.793	0.00	0.00	N
ATOM	2227	CA	TYR	143	0.864	-4.364	2.718	0.00	0.00	C
ATOM	2228	C	TYR	143	1.390	-4.902	4.061	0.00	0.00	C
ATOM	2229	O	TYR	143	1.090	-6.000	4.498	0.00	0.00	O
ATOM	2230	CB	TYR	143	1.985	-4.317	1.730	0.00	0.00	C
ATOM	2231	CG	TYR	143	2.907	-5.532	1.679	0.00	0.00	C
ATOM	2232	CD1	TYR	143	2.346	-6.783	1.347	0.00	0.00	C
ATOM	2233	CD2	TYR	143	4.318	-5.375	1.817	0.00	0.00	C
ATOM	2234	CE1	TYR	143	3.196	-7.871	1.248	0.00	0.00	C
ATOM	2235	CE2	TYR	143	5.142	-6.510	1.737	0.00	0.00	C
ATOM	2236	CZ	TYR	143	4.587	-7.738	1.453	0.00	0.00	C
ATOM	2237	OH	TYR	143	5.418	-8.792	1.177	0.00	0.00	O
ATOM	2238	H	TYR	143	0.758	-2.321	2.223	0.00	0.00	H
ATOM	2239	HA	TYR	143	0.163	-5.091	2.308	0.00	0.00	H
ATOM	2240	HB2	TYR	143	1.537	-4.278	0.738	0.00	0.00	H
ATOM	2241	HB3	TYR	143	2.575	-3.406	1.830	0.00	0.00	H
ATOM	2242	HD1	TYR	143	1.279	-6.944	1.316	0.00	0.00	H
ATOM	2243	HD2	TYR	143	4.713	-4.370	1.857	0.00	0.00	H
ATOM	2244	HE1	TYR	143	2.866	-8.892	1.118	0.00	0.00	H
ATOM	2245	HE2	TYR	143	6.220	-6.543	1.814	0.00	0.00	H
ATOM	2246	HH	TYR	143	6.314	-8.609	1.467	0.00	0.00	H
ATOM	2247	N	ARG	144	2.017	-4.044	4.917	0.00	0.00	N
ATOM	2248	CA	ARG	144	2.440	-4.521	6.211	0.00	0.00	C
ATOM	2249	C	ARG	144	1.264	-4.703	7.139	0.00	0.00	C
ATOM	2250	O	ARG	144	1.362	-5.721	7.796	0.00	0.00	O
ATOM	2251	CB	ARG	144	3.510	-3.691	6.863	0.00	0.00	C
ATOM	2252	CG	ARG	144	4.927	-3.821	6.275	0.00	0.00	C
ATOM	2253	CD	ARG	144	5.412	-5.306	6.086	0.00	0.00	C
ATOM	2254	NE	ARG	144	6.897	-5.344	5.820	0.00	0.00	N
ATOM	2255	CZ	ARG	144	7.483	-6.044	4.875	0.00	0.00	C
ATOM	2256	NH1	ARG	144	6.903	-6.961	4.209	0.00	0.00	N
ATOM	2257	NH2	ARG	144	8.766	-5.886	4.678	0.00	0.00	N
ATOM	2258	H	ARG	144	2.081	-3.047	4.769	0.00	0.00	H
ATOM	2259	HA	ARG	144	2.782	-5.528	5.972	0.00	0.00	H
ATOM	2260	HB2	ARG	144	3.213	-2.642	6.823	0.00	0.00	H
ATOM	2261	HB3	ARG	144	3.498	-4.078	7.882	0.00	0.00	H
ATOM	2262	HG2	ARG	144	4.874	-3.384	5.277	0.00	0.00	H
ATOM	2263	HG3	ARG	144	5.579	-3.206	6.894	0.00	0.00	H
ATOM	2264	HD2	ARG	144	5.174	-5.978	6.910	0.00	0.00	H
ATOM	2265	HD3	ARG	144	4.920	-5.655	5.178	0.00	0.00	H
ATOM	2266	HE	ARG	144	7.471	-4.622	6.231	0.00	0.00	H
ATOM	2267	1HH1	ARG	144	5.903	-7.030	4.333	0.00	0.00	H
ATOM	2268	2HH1	ARG	144	7.468	-7.467	3.542	0.00	0.00	H
ATOM	2269	1HH2	ARG	144	9.170	-5.109	5.182	0.00	0.00	H
ATOM	2270	2HH2	ARG	144	9.317	-6.416	4.019	0.00	0.00	H
ATOM	2271	N	LEU	145	0.312	-3.791	7.213	0.00	0.00	N
ATOM	2272	CA	LEU	145	-0.878	-3.869	8.007	0.00	0.00	C
ATOM	2273	C	LEU	145	-1.695	-5.106	7.702	0.00	0.00	C
ATOM	2274	O	LEU	145	-2.295	-5.665	8.556	0.00	0.00	O
ATOM	2275	CB	LEU	145	-1.623	-2.463	7.902	0.00	0.00	C
ATOM	2276	CG	LEU	145	-2.706	-2.291	8.995	0.00	0.00	C
ATOM	2277	CD1	LEU	145	-2.242	-2.611	10.394	0.00	0.00	C
ATOM	2278	CD2	LEU	145	-3.266	-0.832	8.968	0.00	0.00	C
ATOM	2279	H	LEU	145	0.427	-2.912	6.731	0.00	0.00	H
ATOM	2280	HA	LEU	145	-0.526	-3.907	9.037	0.00	0.00	H
ATOM	2281	HB2	LEU	145	-0.849	-1.699	7.971	0.00	0.00	H
ATOM	2282	HB3	LEU	145	-2.108	-2.432	6.927	0.00	0.00	H
ATOM	2283	HG	LEU	145	-3.581	-2.879	8.718	0.00	0.00	H

ATOM	2284	1HD1	LEU	145	-1.222	-2.245	10.516	0.00	0.00	H
ATOM	2285	2HD1	LEU	145	-2.906	-2.095	11.085	0.00	0.00	H
ATOM	2286	3HD1	LEU	145	-2.238	-3.696	10.492	0.00	0.00	H
ATOM	2287	1HD2	LEU	145	-2.441	-0.173	9.248	0.00	0.00	H
ATOM	2288	2HD2	LEU	145	-3.725	-0.648	7.996	0.00	0.00	H
ATOM	2289	3HD2	LEU	145	-4.024	-0.621	9.721	0.00	0.00	H
ATOM	2290	N	ALA	146	-1.693	-5.500	6.416	0.00	0.00	N
ATOM	2291	CA	ALA	146	-2.428	-6.632	5.897	0.00	0.00	C
ATOM	2292	C	ALA	146	-1.828	-8.023	6.388	0.00	0.00	C
ATOM	2293	O	ALA	146	-2.528	-8.789	7.005	0.00	0.00	O
ATOM	2294	CB	ALA	146	-2.561	-6.486	4.441	0.00	0.00	C
ATOM	2295	H	ALA	146	-1.112	-4.960	5.791	0.00	0.00	H
ATOM	2296	HA	ALA	146	-3.431	-6.588	6.321	0.00	0.00	H
ATOM	2297	HB1	ALA	146	-3.173	-5.619	4.191	0.00	0.00	H
ATOM	2298	HB2	ALA	146	-1.562	-6.352	4.027	0.00	0.00	H
ATOM	2299	HB3	ALA	146	-3.091	-7.409	4.202	0.00	0.00	H
ATOM	2300	N	LEU	147	-0.463	-8.153	6.453	0.00	0.00	N
ATOM	2301	CA	LEU	147	0.254	-9.277	7.066	0.00	0.00	C
ATOM	2302	C	LEU	147	0.183	-9.243	8.631	0.00	0.00	C
ATOM	2303	O	LEU	147	0.231	-10.264	9.357	0.00	0.00	O
ATOM	2304	CB	LEU	147	1.710	-9.288	6.542	0.00	0.00	C
ATOM	2305	CG	LEU	147	1.948	-10.184	5.264	0.00	0.00	C
ATOM	2306	CD1	LEU	147	1.210	-9.851	3.954	0.00	0.00	C
ATOM	2307	CD2	LEU	147	3.382	-9.917	4.860	0.00	0.00	C
ATOM	2308	H	LEU	147	0.087	-7.534	5.876	0.00	0.00	H
ATOM	2309	HA	LEU	147	-0.150	-10.257	6.810	0.00	0.00	H
ATOM	2310	HB2	LEU	147	2.044	-8.281	6.291	0.00	0.00	H
ATOM	2311	HB3	LEU	147	2.379	-9.554	7.359	0.00	0.00	H
ATOM	2312	HG	LEU	147	1.785	-11.229	5.531	0.00	0.00	H
ATOM	2313	1HD1	LEU	147	1.527	-8.852	3.652	0.00	0.00	H
ATOM	2314	2HD1	LEU	147	0.123	-9.811	3.999	0.00	0.00	H
ATOM	2315	3HD1	LEU	147	1.375	-10.627	3.207	0.00	0.00	H
ATOM	2316	1HD2	LEU	147	3.608	-8.863	4.696	0.00	0.00	H
ATOM	2317	2HD2	LEU	147	4.024	-10.400	5.596	0.00	0.00	H
ATOM	2318	3HD2	LEU	147	3.487	-10.449	3.914	0.00	0.00	H
ATOM	2319	N	HIP	148	0.064	-8.028	9.189	0.00	0.00	N
ATOM	2320	CA	HIP	148	-0.036	-7.817	10.699	0.00	0.00	C
ATOM	2321	C	HIP	148	-1.447	-8.193	11.256	0.00	0.00	C
ATOM	2322	O	HIP	148	-1.561	-8.578	12.416	0.00	0.00	O
ATOM	2323	CB	HIP	148	0.341	-6.364	11.025	0.00	0.00	C
ATOM	2324	CG	HIP	148	0.657	-6.130	12.520	0.00	0.00	C
ATOM	2325	CD2	HIP	148	-0.331	-5.731	13.400	0.00	0.00	C
ATOM	2326	ND1	HIP	148	1.876	-6.084	13.204	0.00	0.00	N
ATOM	2327	CE1	HIP	148	1.680	-5.549	14.364	0.00	0.00	C
ATOM	2328	NE2	HIP	148	0.348	-5.504	14.578	0.00	0.00	N
ATOM	2329	H	HIP	148	0.069	-7.174	8.651	0.00	0.00	H
ATOM	2330	HA	HIP	148	0.636	-8.576	11.100	0.00	0.00	H
ATOM	2331	HB2	HIP	148	1.235	-6.169	10.430	0.00	0.00	H
ATOM	2332	HB3	HIP	148	-0.465	-5.757	10.614	0.00	0.00	H
ATOM	2333	HD1	HIP	148	2.781	-6.374	12.861	0.00	0.00	H
ATOM	2334	HD2	HIP	148	-1.389	-5.704	13.189	0.00	0.00	H
ATOM	2335	HE1	HIP	148	2.496	-5.307	15.029	0.00	0.00	H
ATOM	2336	HE2	HIP	148	-0.108	-5.304	15.457	0.00	0.00	H
ATOM	2337	N	VAL	149	-2.485	-8.211	10.457	0.00	0.00	N
ATOM	2338	CA	VAL	149	-3.766	-8.892	10.612	0.00	0.00	C
ATOM	2339	C	VAL	149	-3.745	-10.371	10.292	0.00	0.00	C
ATOM	2340	O	VAL	149	-4.140	-11.234	11.077	0.00	0.00	O
ATOM	2341	CB	VAL	149	-4.868	-8.190	9.705	0.00	0.00	C
ATOM	2342	CG1	VAL	149	-6.257	-8.950	9.827	0.00	0.00	C
ATOM	2343	CG2	VAL	149	-5.127	-6.769	10.239	0.00	0.00	C
ATOM	2344	H	VAL	149	-2.278	-7.851	9.537	0.00	0.00	H
ATOM	2345	HA	VAL	149	-3.980	-8.858	11.680	0.00	0.00	H
ATOM	2346	HB	VAL	149	-4.583	-8.180	8.652	0.00	0.00	H
ATOM	2347	1HG1	VAL	149	-7.090	-8.495	9.289	0.00	0.00	H
ATOM	2348	2HG1	VAL	149	-6.121	-9.961	9.444	0.00	0.00	H
ATOM	2349	3HG1	VAL	149	-6.505	-8.935	10.888	0.00	0.00	H
ATOM	2350	1HG2	VAL	149	-5.822	-6.376	9.495	0.00	0.00	H
ATOM	2351	2HG2	VAL	149	-5.644	-6.750	11.198	0.00	0.00	H
ATOM	2352	3HG2	VAL	149	-4.175	-6.240	10.199	0.00	0.00	H
ATOM	2353	N	TYR	150	-3.133	-10.745	9.145	0.00	0.00	N
ATOM	2354	CA	TYR	150	-2.957	-12.142	8.778	0.00	0.00	C
ATOM	2355	C	TYR	150	-2.169	-12.974	9.804	0.00	0.00	C
ATOM	2356	O	TYR	150	-2.625	-14.057	10.172	0.00	0.00	O
ATOM	2357	CB	TYR	150	-2.133	-12.319	7.495	0.00	0.00	C
ATOM	2358	CG	TYR	150	-2.214	-13.639	6.795	0.00	0.00	C
ATOM	2359	CD1	TYR	150	-1.391	-14.714	7.141	0.00	0.00	C
ATOM	2360	CD2	TYR	150	-3.072	-13.793	5.704	0.00	0.00	C
ATOM	2361	CE1	TYR	150	-1.378	-15.958	6.530	0.00	0.00	C
ATOM	2362	CE2	TYR	150	-3.146	-15.064	5.059	0.00	0.00	C
ATOM	2363	CZ	TYR	150	-2.289	-16.162	5.450	0.00	0.00	C
ATOM	2364	OH	TYR	150	-2.453	-17.400	4.842	0.00	0.00	O
ATOM	2365	H	TYR	150	-2.743	-10.077	8.495	0.00	0.00	H
ATOM	2366	HA	TYR	150	-3.913	-12.653	8.666	0.00	0.00	H
ATOM	2367	HB2	TYR	150	-2.506	-11.547	6.822	0.00	0.00	H
ATOM	2368	HB3	TYR	150	-1.070	-12.225	7.719	0.00	0.00	H
ATOM	2369	HD1	TYR	150	-0.622	-14.539	7.880	0.00	0.00	H
ATOM	2370	HD2	TYR	150	-3.730	-12.997	5.385	0.00	0.00	H
ATOM	2371	HE1	TYR	150	-0.674	-16.659	6.955	0.00	0.00	H
ATOM	2372	HE2	TYR	150	-3.926	-15.288	4.346	0.00	0.00	H
ATOM	2373	HH	TYR	150	-1.885	-18.011	5.318	0.00	0.00	H
ATOM	2374	N	GLN	151	-1.207	-12.350	10.377	0.00	0.00	N
ATOM	2375	CA	GLN	151	-0.327	-13.079	11.332	0.00	0.00	C
ATOM	2376	C	GLN	151	-0.888	-13.331	12.761	0.00	0.00	C
ATOM	2377	O	GLN	151	-0.244	-14.069	13.522	0.00	0.00	O
ATOM	2378	CB	GLN	151	1.125	-12.511	11.408	0.00	0.00	C
ATOM	2379	CG	GLN	151	1.859	-12.686	10.098	0.00	0.00	C
ATOM	2380	CD	GLN	151	3.104	-11.837	9.935	0.00	0.00	C
ATOM	2381	NE2	GLN	151	3.733	-11.849	8.724	0.00	0.00	N
ATOM	2382	OE1	GLN	151	3.610	-11.242	10.838	0.00	0.00	O
ATOM	2383	H	GLN	151	-0.966	-11.452	9.983	0.00	0.00	H
ATOM	2384	HA	GLN	151	-0.181	-14.060	10.882	0.00	0.00	H
ATOM	2385	HB2	GLN	151	1.002	-11.442	11.583	0.00	0.00	H
ATOM	2386	HB3	GLN	151	1.752	-13.025	12.136	0.00	0.00	H
ATOM	2387	HG2	GLN	151	2.139	-13.721	9.901	0.00	0.00	H
ATOM	2388	HG3	GLN	151	1.247	-12.380	9.252	0.00	0.00	H

ATOM	2389	1HE2	GLN	151	4.455	-11.154	8.596	0.00	0.00	H
ATOM	2390	2HE2	GLN	151	3.255	-12.306	7.961	0.00	0.00	H
ATOM	2391	N	HIP	152	-2.163	-12.844	12.978	0.00	0.00	N
ATOM	2392	CA	HIP	152	-2.977	-13.197	14.143	0.00	0.00	C
ATOM	2393	C	HIP	152	-4.225	-14.058	13.977	0.00	0.00	C
ATOM	2394	O	HIP	152	-5.190	-13.904	14.683	0.00	0.00	O
ATOM	2395	CB	HIP	152	-3.268	-11.989	15.118	0.00	0.00	C
ATOM	2396	CG	HIP	152	-1.991	-11.326	15.542	0.00	0.00	C
ATOM	2397	CD2	HIP	152	-1.555	-10.182	15.065	0.00	0.00	C
ATOM	2398	ND1	HIP	152	-0.907	-11.911	16.166	0.00	0.00	N
ATOM	2399	CE1	HIP	152	0.118	-11.064	16.247	0.00	0.00	C
ATOM	2400	NE2	HIP	152	-0.310	-9.903	15.565	0.00	0.00	N
ATOM	2401	H	HIP	152	-2.629	-12.299	12.267	0.00	0.00	H
ATOM	2402	HA	HIP	152	-2.265	-13.788	14.717	0.00	0.00	H
ATOM	2403	HB2	HIP	152	-3.986	-11.254	14.750	0.00	0.00	H
ATOM	2404	HB3	HIP	152	-3.752	-12.303	16.042	0.00	0.00	H
ATOM	2405	HD1	HIP	152	-0.955	-12.775	16.687	0.00	0.00	H
ATOM	2406	HD2	HIP	152	-2.147	-9.533	14.437	0.00	0.00	H
ATOM	2407	HE1	HIP	152	1.024	-11.071	16.835	0.00	0.00	H
ATOM	2408	HE2	HIP	152	0.186	-9.026	15.495	0.00	0.00	H
ATOM	2409	N	GLY	153	-4.157	-15.059	13.042	0.00	0.00	N
ATOM	2410	CA	GLY	153	-5.246	-16.056	12.903	0.00	0.00	C
ATOM	2411	C	GLY	153	-6.432	-15.680	12.051	0.00	0.00	C
ATOM	2412	O	GLY	153	-7.389	-16.442	12.012	0.00	0.00	O
ATOM	2413	H	GLY	153	-3.322	-15.318	12.538	0.00	0.00	H
ATOM	2414	HA2	GLY	153	-4.945	-17.046	12.557	0.00	0.00	H
ATOM	2415	HA3	GLY	153	-5.685	-16.294	13.873	0.00	0.00	H
ATOM	2416	N	LEU	154	-6.345	-14.450	11.473	0.00	0.00	N
ATOM	2417	CA	LEU	154	-7.339	-13.843	10.714	0.00	0.00	C
ATOM	2418	C	LEU	154	-6.856	-13.900	9.252	0.00	0.00	C
ATOM	2419	O	LEU	154	-6.739	-12.889	8.610	0.00	0.00	O
ATOM	2420	CB	LEU	154	-7.591	-12.458	11.297	0.00	0.00	C
ATOM	2421	CG	LEU	154	-7.947	-12.226	12.757	0.00	0.00	C
ATOM	2422	CD1	LEU	154	-7.465	-10.772	13.178	0.00	0.00	C
ATOM	2423	CD2	LEU	154	-9.363	-12.338	13.075	0.00	0.00	C
ATOM	2424	H	LEU	154	-5.558	-13.859	11.694	0.00	0.00	H
ATOM	2425	HA	LEU	154	-8.351	-14.234	10.823	0.00	0.00	H
ATOM	2426	HB2	LEU	154	-6.695	-11.892	11.043	0.00	0.00	H
ATOM	2427	HB3	LEU	154	-8.338	-11.953	10.686	0.00	0.00	H
ATOM	2428	HG	LEU	154	-7.363	-12.934	13.346	0.00	0.00	H
ATOM	2429	1HD1	LEU	154	-6.375	-10.778	13.167	0.00	0.00	H
ATOM	2430	2HD1	LEU	154	-7.799	-10.035	12.445	0.00	0.00	H
ATOM	2431	3HD1	LEU	154	-7.773	-10.527	14.195	0.00	0.00	H
ATOM	2432	1HD2	LEU	154	-9.946	-11.663	12.449	0.00	0.00	H
ATOM	2433	2HD2	LEU	154	-9.496	-12.228	14.151	0.00	0.00	H
ATOM	2434	3HD2	LEU	154	-9.715	-13.363	12.969	0.00	0.00	H
ATOM	2435	N	THR	155	-6.637	-15.176	8.769	0.00	0.00	N
ATOM	2436	CA	THR	155	-5.924	-15.364	7.440	0.00	0.00	C
ATOM	2437	C	THR	155	-6.774	-14.970	6.226	0.00	0.00	C
ATOM	2438	O	THR	155	-6.221	-14.264	5.362	0.00	0.00	O
ATOM	2439	CB	THR	155	-5.483	-16.822	7.406	0.00	0.00	C
ATOM	2440	CG2	THR	155	-4.376	-17.106	8.452	0.00	0.00	C
ATOM	2441	OG1	THR	155	-6.526	-17.760	7.663	0.00	0.00	O
ATOM	2442	H	THR	155	-6.737	-15.941	9.421	0.00	0.00	H
ATOM	2443	HA	THR	155	-5.017	-14.763	7.503	0.00	0.00	H
ATOM	2444	HB	THR	155	-5.154	-17.059	6.394	0.00	0.00	H
ATOM	2445	HG1	THR	155	-6.135	-18.511	8.114	0.00	0.00	H
ATOM	2446	1HG2	THR	155	-3.699	-16.252	8.484	0.00	0.00	H
ATOM	2447	2HG2	THR	155	-4.685	-17.176	9.495	0.00	0.00	H
ATOM	2448	3HG2	THR	155	-3.762	-17.966	8.186	0.00	0.00	H
ATOM	2449	N	GLY	156	-8.097	-15.259	6.272	0.00	0.00	N
ATOM	2450	CA	GLY	156	-9.151	-14.665	5.431	0.00	0.00	C
ATOM	2451	C	GLY	156	-9.185	-13.156	5.443	0.00	0.00	C
ATOM	2452	O	GLY	156	-9.286	-12.571	4.378	0.00	0.00	O
ATOM	2453	H	GLY	156	-8.372	-15.516	7.208	0.00	0.00	H
ATOM	2454	HA2	GLY	156	-9.087	-14.961	4.384	0.00	0.00	H
ATOM	2455	HA3	GLY	156	-10.126	-14.883	5.867	0.00	0.00	H
ATOM	2456	N	PHE	157	-9.192	-12.600	6.672	0.00	0.00	N
ATOM	2457	CA	PHE	157	-9.473	-11.201	6.808	0.00	0.00	C
ATOM	2458	C	PHE	157	-8.420	-10.194	6.278	0.00	0.00	C
ATOM	2459	O	PHE	157	-8.668	-8.972	6.215	0.00	0.00	O
ATOM	2460	CB	PHE	157	-9.734	-11.032	8.328	0.00	0.00	C
ATOM	2461	CG	PHE	157	-11.019	-10.323	8.772	0.00	0.00	C
ATOM	2462	CD1	PHE	157	-10.928	-8.913	9.035	0.00	0.00	C
ATOM	2463	CD2	PHE	157	-12.288	-10.940	8.880	0.00	0.00	C
ATOM	2464	CE1	PHE	157	-12.097	-8.204	9.192	0.00	0.00	C
ATOM	2465	CE2	PHE	157	-13.455	-10.185	9.111	0.00	0.00	C
ATOM	2466	CZ	PHE	157	-13.388	-8.779	9.288	0.00	0.00	C
ATOM	2467	H	PHE	157	-9.271	-13.243	7.447	0.00	0.00	H
ATOM	2468	HA	PHE	157	-10.393	-10.968	6.274	0.00	0.00	H
ATOM	2469	HB2	PHE	157	-9.682	-12.009	8.809	0.00	0.00	H
ATOM	2470	HB3	PHE	157	-8.893	-10.470	8.733	0.00	0.00	H
ATOM	2471	HD1	PHE	157	-10.021	-8.384	8.786	0.00	0.00	H
ATOM	2472	HD2	PHE	157	-12.334	-12.009	8.748	0.00	0.00	H
ATOM	2473	HE1	PHE	157	-12.100	-7.129	9.306	0.00	0.00	H
ATOM	2474	HE2	PHE	157	-14.396	-10.669	9.323	0.00	0.00	H
ATOM	2475	HZ	PHE	157	-14.194	-8.088	9.488	0.00	0.00	H
ATOM	2476	N	LEU	158	-7.329	-10.681	5.660	0.00	0.00	N
ATOM	2477	CA	LEU	158	-6.426	-9.931	4.742	0.00	0.00	C
ATOM	2478	C	LEU	158	-7.217	-9.280	3.549	0.00	0.00	C
ATOM	2479	O	LEU	158	-6.971	-8.091	3.222	0.00	0.00	O
ATOM	2480	CB	LEU	158	-5.267	-10.956	4.342	0.00	0.00	C
ATOM	2481	CG	LEU	158	-4.190	-10.359	3.364	0.00	0.00	C
ATOM	2482	CD1	LEU	158	-2.784	-10.797	3.643	0.00	0.00	C
ATOM	2483	CD2	LEU	158	-4.554	-10.776	1.951	0.00	0.00	C
ATOM	2484	H	LEU	158	-7.202	-11.680	5.742	0.00	0.00	H
ATOM	2485	HA	LEU	158	-5.889	-9.151	5.279	0.00	0.00	H
ATOM	2486	HB2	LEU	158	-4.814	-11.203	5.301	0.00	0.00	H
ATOM	2487	HB3	LEU	158	-5.738	-11.825	3.881	0.00	0.00	H
ATOM	2488	HG	LEU	158	-4.120	-9.273	3.299	0.00	0.00	H
ATOM	2489	1HD1	LEU	158	-2.556	-10.588	4.689	0.00	0.00	H
ATOM	2490	2HD1	LEU	158	-2.695	-11.879	3.539	0.00	0.00	H
ATOM	2491	3HD1	LEU	158	-2.193	-10.176	2.972	0.00	0.00	H
ATOM	2492	1HD2	LEU	158	-5.489	-10.279	1.692	0.00	0.00	H
ATOM	2493	2HD2	LEU	158	-3.723	-10.414	1.348	0.00	0.00	H

ATOM	2494	3HD2	LEU	158	-4.579	-11.854	1.790	0.00	0.00	H
ATOM	2495	N	GLY	159	-8.262	-9.980	3.008	0.00	0.00	N
ATOM	2496	CA	GLY	159	-9.118	-9.461	1.973	0.00	0.00	C
ATOM	2497	C	GLY	159	-10.076	-8.369	2.510	0.00	0.00	C
ATOM	2498	O	GLY	159	-10.321	-7.396	1.751	0.00	0.00	O
ATOM	2499	H	GLY	159	-8.371	-10.919	3.365	0.00	0.00	H
ATOM	2500	HA2	GLY	159	-8.467	-9.169	1.152	0.00	0.00	H
ATOM	2501	HA3	GLY	159	-9.685	-10.369	1.766	0.00	0.00	H
ATOM	2502	N	GLN	160	-10.529	-8.392	3.723	0.00	0.00	N
ATOM	2503	CA	GLN	160	-11.337	-7.249	4.328	0.00	0.00	C
ATOM	2504	C	GLN	160	-10.499	-6.048	4.791	0.00	0.00	C
ATOM	2505	O	GLN	160	-10.956	-4.901	4.726	0.00	0.00	O
ATOM	2506	CB	GLN	160	-12.250	-7.740	5.503	0.00	0.00	C
ATOM	2507	CG	GLN	160	-13.373	-8.832	5.262	0.00	0.00	C
ATOM	2508	CD	GLN	160	-14.653	-8.206	4.720	0.00	0.00	C
ATOM	2509	NE2	GLN	160	-15.824	-8.780	4.895	0.00	0.00	N
ATOM	2510	OE1	GLN	160	-14.692	-7.074	4.248	0.00	0.00	O
ATOM	2511	H	GLN	160	-10.487	-9.252	4.252	0.00	0.00	H
ATOM	2512	HA	GLN	160	-11.933	-6.811	3.528	0.00	0.00	H
ATOM	2513	HB2	GLN	160	-11.639	-8.176	6.294	0.00	0.00	H
ATOM	2514	HB3	GLN	160	-12.667	-6.871	6.010	0.00	0.00	H
ATOM	2515	HG2	GLN	160	-13.015	-9.543	4.516	0.00	0.00	H
ATOM	2516	HG3	GLN	160	-13.507	-9.418	6.171	0.00	0.00	H
ATOM	2517	1HE2	GLN	160	-16.661	-8.382	4.494	0.00	0.00	H
ATOM	2518	2HE2	GLN	160	-15.862	-9.708	5.293	0.00	0.00	H
ATOM	2519	N	VAL	161	-9.229	-6.248	5.232	0.00	0.00	N
ATOM	2520	CA	VAL	161	-8.320	-5.049	5.191	0.00	0.00	C
ATOM	2521	C	VAL	161	-7.991	-4.500	3.781	0.00	0.00	C
ATOM	2522	O	VAL	161	-8.016	-3.272	3.630	0.00	0.00	O
ATOM	2523	CB	VAL	161	-7.135	-5.147	6.145	0.00	0.00	C
ATOM	2524	CG1	VAL	161	-7.513	-5.060	7.641	0.00	0.00	C
ATOM	2525	CG2	VAL	161	-6.293	-6.370	5.874	0.00	0.00	C
ATOM	2526	H	VAL	161	-8.907	-7.202	5.305	0.00	0.00	H
ATOM	2527	HA	VAL	161	-8.845	-4.246	5.710	0.00	0.00	H
ATOM	2528	HB	VAL	161	-6.483	-4.292	5.973	0.00	0.00	H
ATOM	2529	1HG1	VAL	161	-6.620	-5.147	8.261	0.00	0.00	H
ATOM	2530	2HG1	VAL	161	-7.965	-4.083	7.812	0.00	0.00	H
ATOM	2531	3HG1	VAL	161	-8.166	-5.857	7.995	0.00	0.00	H
ATOM	2532	1HG2	VAL	161	-5.910	-6.339	4.854	0.00	0.00	H
ATOM	2533	2HG2	VAL	161	-5.460	-6.395	6.577	0.00	0.00	H
ATOM	2534	3HG2	VAL	161	-6.859	-7.284	6.048	0.00	0.00	H
ATOM	2535	N	THR	162	-7.752	-5.404	2.756	0.00	0.00	N
ATOM	2536	CA	THR	162	-7.463	-4.959	1.361	0.00	0.00	C
ATOM	2537	C	THR	162	-8.506	-4.028	0.869	0.00	0.00	C
ATOM	2538	O	THR	162	-8.104	-2.949	0.523	0.00	0.00	O
ATOM	2539	CB	THR	162	-7.362	-6.215	0.468	0.00	0.00	C
ATOM	2540	CG2	THR	162	-7.298	-5.893	-1.038	0.00	0.00	C
ATOM	2541	OG1	THR	162	-6.075	-6.853	0.735	0.00	0.00	O
ATOM	2542	H	THR	162	-7.729	-6.401	2.915	0.00	0.00	H
ATOM	2543	HA	THR	162	-6.564	-4.341	1.398	0.00	0.00	H
ATOM	2544	HB	THR	162	-8.153	-6.952	0.610	0.00	0.00	H
ATOM	2545	HG1	THR	162	-6.168	-7.272	1.594	0.00	0.00	H
ATOM	2546	1HG2	THR	162	-7.326	-6.829	-1.596	0.00	0.00	H
ATOM	2547	2HG2	THR	162	-8.156	-5.312	-1.378	0.00	0.00	H
ATOM	2548	3HG2	THR	162	-6.424	-5.320	-1.348	0.00	0.00	H
ATOM	2549	N	ARG	163	-9.824	-4.336	0.990	0.00	0.00	N
ATOM	2550	CA	ARG	163	-10.884	-3.417	0.614	0.00	0.00	C
ATOM	2551	C	ARG	163	-10.951	-2.151	1.512	0.00	0.00	C
ATOM	2552	O	ARG	163	-11.290	-1.154	0.898	0.00	0.00	O
ATOM	2553	CB	ARG	163	-12.205	-4.223	0.785	0.00	0.00	C
ATOM	2554	CG	ARG	163	-13.627	-3.717	0.321	0.00	0.00	C
ATOM	2555	CD	ARG	163	-14.022	-4.042	-1.156	0.00	0.00	C
ATOM	2556	NE	ARG	163	-13.311	-3.199	-2.109	0.00	0.00	N
ATOM	2557	CZ	ARG	163	-13.271	-1.912	-2.379	0.00	0.00	C
ATOM	2558	NH1	ARG	163	-13.961	-0.997	-1.785	0.00	0.00	N
ATOM	2559	NH2	ARG	163	-12.449	-1.546	-3.303	0.00	0.00	N
ATOM	2560	H	ARG	163	-10.194	-5.209	1.338	0.00	0.00	H
ATOM	2561	HA	ARG	163	-10.755	-3.097	-0.420	0.00	0.00	H
ATOM	2562	HB2	ARG	163	-12.037	-5.233	0.408	0.00	0.00	H
ATOM	2563	HB3	ARG	163	-12.313	-4.434	1.848	0.00	0.00	H
ATOM	2564	HG2	ARG	163	-14.429	-4.160	0.914	0.00	0.00	H
ATOM	2565	HG3	ARG	163	-13.729	-2.642	0.476	0.00	0.00	H
ATOM	2566	HD2	ARG	163	-13.729	-5.074	-1.353	0.00	0.00	H
ATOM	2567	HD3	ARG	163	-15.100	-4.067	-1.316	0.00	0.00	H
ATOM	2568	HE	ARG	163	-12.724	-3.702	-2.759	0.00	0.00	H
ATOM	2569	1HH1	ARG	163	-14.353	-1.195	-0.875	0.00	0.00	H
ATOM	2570	2HH1	ARG	163	-14.019	-0.061	-2.163	0.00	0.00	H
ATOM	2571	1HH2	ARG	163	-12.032	-2.311	-3.814	0.00	0.00	H
ATOM	2572	2HH2	ARG	163	-12.358	-0.588	-3.607	0.00	0.00	H
ATOM	2573	N	PHE	164	-10.654	-2.206	2.828	0.00	0.00	N
ATOM	2574	CA	PHE	164	-10.661	-1.044	3.783	0.00	0.00	C
ATOM	2575	C	PHE	164	-9.655	0.038	3.342	0.00	0.00	C
ATOM	2576	O	PHE	164	-10.041	1.254	3.513	0.00	0.00	O
ATOM	2577	CB	PHE	164	-10.411	-1.413	5.272	0.00	0.00	C
ATOM	2578	CG	PHE	164	-10.823	-0.276	6.220	0.00	0.00	C
ATOM	2579	CD1	PHE	164	-9.867	0.540	6.740	0.00	0.00	C
ATOM	2580	CD2	PHE	164	-12.199	-0.105	6.355	0.00	0.00	C
ATOM	2581	CE1	PHE	164	-10.270	1.501	7.656	0.00	0.00	C
ATOM	2582	CE2	PHE	164	-12.638	0.830	7.333	0.00	0.00	C
ATOM	2583	CZ	PHE	164	-11.687	1.676	7.873	0.00	0.00	C
ATOM	2584	H	PHE	164	-10.276	-3.099	3.107	0.00	0.00	H
ATOM	2585	HA	PHE	164	-11.621	-0.526	3.766	0.00	0.00	H
ATOM	2586	HB2	PHE	164	-10.919	-2.289	5.675	0.00	0.00	H
ATOM	2587	HB3	PHE	164	-9.333	-1.529	5.384	0.00	0.00	H
ATOM	2588	HD1	PHE	164	-8.830	0.404	6.471	0.00	0.00	H
ATOM	2589	HD2	PHE	164	-12.874	-0.631	5.696	0.00	0.00	H
ATOM	2590	HE1	PHE	164	-9.573	2.064	8.258	0.00	0.00	H
ATOM	2591	HE2	PHE	164	-13.707	0.914	7.469	0.00	0.00	H
ATOM	2592	HZ	PHE	164	-12.017	2.388	8.616	0.00	0.00	H
ATOM	2593	N	VAL	165	-8.456	-0.395	2.813	0.00	0.00	N
ATOM	2594	CA	VAL	165	-7.482	0.601	2.232	0.00	0.00	C
ATOM	2595	C	VAL	165	-7.974	1.399	1.004	0.00	0.00	C
ATOM	2596	O	VAL	165	-7.636	2.529	0.823	0.00	0.00	O
ATOM	2597	CB	VAL	165	-6.194	-0.112	1.740	0.00	0.00	C
ATOM	2598	CG1	VAL	165	-5.234	0.919	1.176	0.00	0.00	C

ATOM	2599	CG2	VAL	165	-5.488	-0.805	2.954	0.00	0.00	C
ATOM	2600	H	VAL	165	-8.250	-1.382	2.758	0.00	0.00	H
ATOM	2601	HA	VAL	165	-7.209	1.274	3.047	0.00	0.00	H
ATOM	2602	HB	VAL	165	-6.464	-0.785	0.926	0.00	0.00	H
ATOM	2603	1HG1	VAL	165	-5.662	1.292	0.245	0.00	0.00	H
ATOM	2604	2HG1	VAL	165	-4.953	1.753	1.820	0.00	0.00	H
ATOM	2605	3HG1	VAL	165	-4.276	0.440	0.968	0.00	0.00	H
ATOM	2606	1HG2	VAL	165	-6.068	-1.678	3.252	0.00	0.00	H
ATOM	2607	2HG2	VAL	165	-4.484	-1.121	2.668	0.00	0.00	H
ATOM	2608	3HG2	VAL	165	-5.426	-0.142	3.817	0.00	0.00	H
ATOM	2609	N	VAL	166	-8.874	0.774	0.227	0.00	0.00	N
ATOM	2610	CA	VAL	166	-9.330	1.282	-1.038	0.00	0.00	C
ATOM	2611	C	VAL	166	-10.695	1.995	-0.971	0.00	0.00	C
ATOM	2612	O	VAL	166	-10.943	2.950	-1.736	0.00	0.00	O
ATOM	2613	CB	VAL	166	-9.252	0.140	-2.070	0.00	0.00	C
ATOM	2614	CG1	VAL	166	-9.557	0.624	-3.521	0.00	0.00	C
ATOM	2615	CG2	VAL	166	-7.785	-0.434	-2.259	0.00	0.00	C
ATOM	2616	H	VAL	166	-9.086	-0.207	0.339	0.00	0.00	H
ATOM	2617	HA	VAL	166	-8.676	2.087	-1.373	0.00	0.00	H
ATOM	2618	HB	VAL	166	-9.926	-0.664	-1.774	0.00	0.00	H
ATOM	2619	1HG1	VAL	166	-8.761	1.304	-3.822	0.00	0.00	H
ATOM	2620	2HG1	VAL	166	-9.535	-0.179	-4.257	0.00	0.00	H
ATOM	2621	3HG1	VAL	166	-10.515	1.143	-3.498	0.00	0.00	H
ATOM	2622	1HG2	VAL	166	-7.113	0.366	-2.572	0.00	0.00	H
ATOM	2623	2HG2	VAL	166	-7.893	-1.079	-3.132	0.00	0.00	H
ATOM	2624	3HG2	VAL	166	-7.404	-1.026	-1.427	0.00	0.00	H
ATOM	2625	N	ASP	167	-11.547	1.542	-0.077	0.00	0.00	N
ATOM	2626	CA	ASP	167	-12.798	2.139	0.285	0.00	0.00	C
ATOM	2627	C	ASP	167	-12.590	3.542	0.873	0.00	0.00	C
ATOM	2628	O	ASP	167	-13.293	4.545	0.523	0.00	0.00	O
ATOM	2629	CB	ASP	167	-13.490	1.262	1.290	0.00	0.00	C
ATOM	2630	CG	ASP	167	-14.894	1.900	1.520	0.00	0.00	C
ATOM	2631	OD1	ASP	167	-15.085	2.522	2.581	0.00	0.00	O
ATOM	2632	OD2	ASP	167	-15.661	1.897	0.545	0.00	0.00	O
ATOM	2633	H	ASP	167	-11.268	0.732	0.457	0.00	0.00	H
ATOM	2634	HA	ASP	167	-13.385	2.196	-0.631	0.00	0.00	H
ATOM	2635	HB2	ASP	167	-13.475	0.212	0.996	0.00	0.00	H
ATOM	2636	HB3	ASP	167	-12.894	1.338	2.201	0.00	0.00	H
ATOM	2637	N	PHE	168	-11.562	3.610	1.719	0.00	0.00	N
ATOM	2638	CA	PHE	168	-11.090	4.902	2.273	0.00	0.00	C
ATOM	2639	C	PHE	168	-10.778	5.817	1.126	0.00	0.00	C
ATOM	2640	O	PHE	168	-11.178	6.935	1.078	0.00	0.00	O
ATOM	2641	CB	PHE	168	-9.832	4.799	3.156	0.00	0.00	C
ATOM	2642	CG	PHE	168	-9.438	6.038	3.912	0.00	0.00	C
ATOM	2643	CD1	PHE	168	-9.861	6.158	5.274	0.00	0.00	C
ATOM	2644	CD2	PHE	168	-8.743	7.055	3.245	0.00	0.00	C
ATOM	2645	CE1	PHE	168	-9.464	7.329	5.952	0.00	0.00	C
ATOM	2646	CE2	PHE	168	-8.304	8.143	3.986	0.00	0.00	C
ATOM	2647	CZ	PHE	168	-8.708	8.304	5.306	0.00	0.00	C
ATOM	2648	H	PHE	168	-11.193	2.720	2.024	0.00	0.00	H
ATOM	2649	HA	PHE	168	-11.820	5.396	2.914	0.00	0.00	H
ATOM	2650	HB2	PHE	168	-10.022	4.039	3.915	0.00	0.00	H
ATOM	2651	HB3	PHE	168	-8.992	4.496	2.531	0.00	0.00	H
ATOM	2652	HD1	PHE	168	-10.302	5.303	5.766	0.00	0.00	H
ATOM	2653	HD2	PHE	168	-8.538	6.992	2.186	0.00	0.00	H
ATOM	2654	HE1	PHE	168	-9.784	7.466	6.973	0.00	0.00	H
ATOM	2655	HE2	PHE	168	-7.739	8.919	3.490	0.00	0.00	H
ATOM	2656	HZ	PHE	168	-8.314	9.167	5.822	0.00	0.00	H
ATOM	2657	N	MET	169	-9.973	5.356	0.122	0.00	0.00	N
ATOM	2658	CA	MET	169	-9.532	6.189	-0.993	0.00	0.00	C
ATOM	2659	C	MET	169	-10.697	6.764	-1.669	0.00	0.00	C
ATOM	2660	O	MET	169	-10.698	7.945	-1.962	0.00	0.00	O
ATOM	2661	CB	MET	169	-8.574	5.462	-2.023	0.00	0.00	C
ATOM	2662	CG	MET	169	-7.220	5.111	-1.387	0.00	0.00	C
ATOM	2663	SD	MET	169	-5.842	4.832	-2.502	0.00	0.00	S
ATOM	2664	CE	MET	169	-4.691	4.379	-1.216	0.00	0.00	C
ATOM	2665	H	MET	169	-9.608	4.414	0.117	0.00	0.00	H
ATOM	2666	HA	MET	169	-9.007	7.041	-0.560	0.00	0.00	H
ATOM	2667	HB2	MET	169	-8.966	4.540	-2.450	0.00	0.00	H
ATOM	2668	HB3	MET	169	-8.416	6.074	-2.910	0.00	0.00	H
ATOM	2669	HG2	MET	169	-6.920	5.813	-0.608	0.00	0.00	H
ATOM	2670	HG3	MET	169	-7.393	4.168	-0.869	0.00	0.00	H
ATOM	2671	HE1	MET	169	-5.168	3.691	-0.516	0.00	0.00	H
ATOM	2672	HE2	MET	169	-3.881	3.934	-1.792	0.00	0.00	H
ATOM	2673	HE3	MET	169	-4.396	5.272	-0.665	0.00	0.00	H
ATOM	2674	N	LEU	170	-11.685	5.952	-1.976	0.00	0.00	N
ATOM	2675	CA	LEU	170	-12.871	6.386	-2.644	0.00	0.00	C
ATOM	2676	C	LEU	170	-13.643	7.384	-1.812	0.00	0.00	C
ATOM	2677	O	LEU	170	-14.094	8.422	-2.351	0.00	0.00	O
ATOM	2678	CB	LEU	170	-13.689	5.123	-2.959	0.00	0.00	C
ATOM	2679	CG	LEU	170	-14.939	5.368	-3.874	0.00	0.00	C
ATOM	2680	CD1	LEU	170	-14.493	6.058	-5.159	0.00	0.00	C
ATOM	2681	CD2	LEU	170	-15.684	4.089	-4.191	0.00	0.00	C
ATOM	2682	H	LEU	170	-11.723	5.000	-1.640	0.00	0.00	H
ATOM	2683	HA	LEU	170	-12.516	6.842	-3.568	0.00	0.00	H
ATOM	2684	HB2	LEU	170	-13.023	4.422	-3.462	0.00	0.00	H
ATOM	2685	HB3	LEU	170	-14.077	4.787	-1.997	0.00	0.00	H
ATOM	2686	HG	LEU	170	-15.736	5.894	-3.350	0.00	0.00	H
ATOM	2687	1HD1	LEU	170	-14.233	7.104	-5.005	0.00	0.00	H
ATOM	2688	2HD1	LEU	170	-13.651	5.551	-5.630	0.00	0.00	H
ATOM	2689	3HD1	LEU	170	-15.276	5.949	-5.911	0.00	0.00	H
ATOM	2690	1HD2	LEU	170	-16.444	4.255	-4.953	0.00	0.00	H
ATOM	2691	2HD2	LEU	170	-15.038	3.394	-4.729	0.00	0.00	H
ATOM	2692	3HD2	LEU	170	-16.151	3.748	-3.267	0.00	0.00	H
ATOM	2693	N	HIP	171	-13.904	7.141	-0.554	0.00	0.00	N
ATOM	2694	CA	HIP	171	-14.627	8.090	0.258	0.00	0.00	C
ATOM	2695	C	HIP	171	-13.885	9.399	0.524	0.00	0.00	C
ATOM	2696	O	HIP	171	-14.482	10.495	0.524	0.00	0.00	O
ATOM	2697	CB	HIP	171	-15.224	7.404	1.489	0.00	0.00	C
ATOM	2698	CG	HIP	171	-16.217	6.312	1.104	0.00	0.00	C
ATOM	2699	CD2	HIP	171	-17.502	6.514	0.510	0.00	0.00	C
ATOM	2700	ND1	HIP	171	-16.122	4.966	1.380	0.00	0.00	N
ATOM	2701	CE1	HIP	171	-17.257	4.378	0.939	0.00	0.00	C
ATOM	2702	NE2	HIP	171	-18.075	5.281	0.333	0.00	0.00	N
ATOM	2703	H	HIP	171	-13.783	6.224	-0.148	0.00	0.00	H

ATOM	2704	HA	HIP	171	-15.554	8.342	-0.256	0.00	0.00	H
ATOM	2705	HB2	HIP	171	-14.385	7.032	2.078	0.00	0.00	H
ATOM	2706	HB3	HIP	171	-15.796	8.212	1.948	0.00	0.00	H
ATOM	2707	HD1	HIP	171	-15.264	4.465	1.565	0.00	0.00	H
ATOM	2708	HD2	HIP	171	-17.873	7.447	0.111	0.00	0.00	H
ATOM	2709	HE1	HIP	171	-17.379	3.305	0.979	0.00	0.00	H
ATOM	2710	HE2	HIP	171	-18.959	5.086	-0.115	0.00	0.00	H
ATOM	2711	N	HIP	172	-12.543	9.280	0.616	0.00	0.00	N
ATOM	2712	CA	HIP	172	-11.754	10.516	0.784	0.00	0.00	C
ATOM	2713	C	HIP	172	-11.210	11.106	-0.522	0.00	0.00	C
ATOM	2714	O	HIP	172	-10.164	11.716	-0.534	0.00	0.00	O
ATOM	2715	CB	HIP	172	-10.705	10.219	1.805	0.00	0.00	C
ATOM	2716	CG	HIP	172	-11.203	10.028	3.242	0.00	0.00	C
ATOM	2717	CD2	HIP	172	-11.787	8.929	3.720	0.00	0.00	C
ATOM	2718	ND1	HIP	172	-11.191	11.009	4.180	0.00	0.00	N
ATOM	2719	CE1	HIP	172	-11.828	10.522	5.238	0.00	0.00	C
ATOM	2720	NE2	HIP	172	-12.171	9.284	5.031	0.00	0.00	N
ATOM	2721	H	HIP	172	-12.073	8.389	0.551	0.00	0.00	H
ATOM	2722	HA	HIP	172	-12.419	11.293	1.159	0.00	0.00	H
ATOM	2723	HB2	HIP	172	-10.148	9.348	1.458	0.00	0.00	H
ATOM	2724	HB3	HIP	172	-10.006	11.054	1.799	0.00	0.00	H
ATOM	2725	HD1	HIP	172	-10.936	11.951	3.917	0.00	0.00	H
ATOM	2726	HD2	HIP	172	-12.049	8.031	3.179	0.00	0.00	H
ATOM	2727	HE1	HIP	172	-11.879	11.056	6.175	0.00	0.00	H
ATOM	2728	HE2	HIP	172	-12.529	8.618	5.701	0.00	0.00	H
ATOM	2729	N	CYS	173	-11.915	11.028	-1.674	0.00	0.00	N
ATOM	2730	CA	CYS	173	-11.619	11.618	-3.031	0.00	0.00	C
ATOM	2731	C	CYS	173	-10.245	11.266	-3.682	0.00	0.00	C
ATOM	2732	O	CYS	173	-9.781	11.800	-4.682	0.00	0.00	O
ATOM	2733	CB	CYS	173	-11.920	13.157	-3.166	0.00	0.00	C
ATOM	2734	SG	CYS	173	-13.543	13.541	-2.421	0.00	0.00	S
ATOM	2735	H	CYS	173	-12.827	10.595	-1.645	0.00	0.00	H
ATOM	2736	HA	CYS	173	-12.354	11.239	-3.741	0.00	0.00	H
ATOM	2737	HB2	CYS	173	-11.199	13.774	-2.630	0.00	0.00	H
ATOM	2738	HB3	CYS	173	-11.865	13.422	-4.222	0.00	0.00	H
ATOM	2739	HG	CYS	173	-13.511	14.852	-2.668	0.00	0.00	H
ATOM	2740	N	ILE	174	-9.466	10.310	-3.125	0.00	0.00	N
ATOM	2741	CA	ILE	174	-8.157	9.918	-3.590	0.00	0.00	C
ATOM	2742	C	ILE	174	-8.186	9.157	-4.936	0.00	0.00	C
ATOM	2743	O	ILE	174	-7.373	9.499	-5.829	0.00	0.00	O
ATOM	2744	CB	ILE	174	-7.333	9.229	-2.502	0.00	0.00	C
ATOM	2745	CG1	ILE	174	-7.292	9.944	-1.130	0.00	0.00	C
ATOM	2746	CG2	ILE	174	-5.935	8.885	-3.066	0.00	0.00	C
ATOM	2747	CD1	ILE	174	-6.945	9.121	0.052	0.00	0.00	C
ATOM	2748	H	ILE	174	-9.853	9.763	-2.369	0.00	0.00	H
ATOM	2749	HA	ILE	174	-7.583	10.816	-3.823	0.00	0.00	H
ATOM	2750	HB	ILE	174	-7.765	8.262	-2.242	0.00	0.00	H
ATOM	2751	2HG1	ILE	174	-6.730	10.878	-1.112	0.00	0.00	H
ATOM	2752	3HG1	ILE	174	-8.288	10.335	-0.927	0.00	0.00	H
ATOM	2753	1HG2	ILE	174	-5.363	8.285	-2.359	0.00	0.00	H
ATOM	2754	2HG2	ILE	174	-6.035	8.200	-3.907	0.00	0.00	H
ATOM	2755	3HG2	ILE	174	-5.419	9.811	-3.324	0.00	0.00	H
ATOM	2756	1HD1	ILE	174	-7.781	8.469	0.308	0.00	0.00	H
ATOM	2757	2HD1	ILE	174	-6.081	8.491	-0.167	0.00	0.00	H
ATOM	2758	3HD1	ILE	174	-6.891	9.761	0.933	0.00	0.00	H
ATOM	2759	N	ALA	175	-9.201	8.279	-5.152	0.00	0.00	N
ATOM	2760	CA	ALA	175	-9.423	7.775	-6.452	0.00	0.00	C
ATOM	2761	C	ALA	175	-9.675	8.793	-7.511	0.00	0.00	C
ATOM	2762	O	ALA	175	-9.114	8.672	-8.617	0.00	0.00	O
ATOM	2763	CB	ALA	175	-10.608	6.790	-6.385	0.00	0.00	C
ATOM	2764	H	ALA	175	-9.822	8.024	-4.397	0.00	0.00	H
ATOM	2765	HA	ALA	175	-8.590	7.127	-6.725	0.00	0.00	H
ATOM	2766	HB1	ALA	175	-11.516	7.332	-6.122	0.00	0.00	H
ATOM	2767	HB2	ALA	175	-10.848	6.302	-7.329	0.00	0.00	H
ATOM	2768	HB3	ALA	175	-10.374	5.956	-5.722	0.00	0.00	H
ATOM	2769	N	ARG	176	-10.383	9.926	-7.230	0.00	0.00	N
ATOM	2770	CA	ARG	176	-10.598	11.038	-8.108	0.00	0.00	C
ATOM	2771	C	ARG	176	-9.290	11.788	-8.315	0.00	0.00	C
ATOM	2772	O	ARG	176	-9.063	12.088	-9.433	0.00	0.00	O
ATOM	2773	CB	ARG	176	-11.646	12.009	-7.514	0.00	0.00	C
ATOM	2774	CG	ARG	176	-12.029	13.319	-8.293	0.00	0.00	C
ATOM	2775	CD	ARG	176	-13.023	14.270	-7.609	0.00	0.00	C
ATOM	2776	NE	ARG	176	-14.187	13.567	-7.060	0.00	0.00	N
ATOM	2777	CZ	ARG	176	-15.223	14.005	-6.311	0.00	0.00	C
ATOM	2778	NH1	ARG	176	-15.431	15.232	-5.914	0.00	0.00	N
ATOM	2779	NH2	ARG	176	-16.114	13.109	-5.952	0.00	0.00	N
ATOM	2780	H	ARG	176	-10.846	10.000	-6.336	0.00	0.00	H
ATOM	2781	HA	ARG	176	-10.935	10.643	-9.066	0.00	0.00	H
ATOM	2782	HB2	ARG	176	-12.505	11.367	-7.320	0.00	0.00	H
ATOM	2783	HB3	ARG	176	-11.213	12.384	-6.587	0.00	0.00	H
ATOM	2784	HG2	ARG	176	-11.198	14.018	-8.378	0.00	0.00	H
ATOM	2785	HG3	ARG	176	-12.446	13.095	-9.276	0.00	0.00	H
ATOM	2786	HD2	ARG	176	-12.560	14.803	-6.779	0.00	0.00	H
ATOM	2787	HD3	ARG	176	-13.393	14.960	-8.368	0.00	0.00	H
ATOM	2788	HE	ARG	176	-14.373	12.616	-7.346	0.00	0.00	H
ATOM	2789	1HH1	ARG	176	-14.769	15.971	-6.103	0.00	0.00	H
ATOM	2790	2HH1	ARG	176	-16.307	15.443	-5.462	0.00	0.00	H
ATOM	2791	1HH2	ARG	176	-15.952	12.161	-6.261	0.00	0.00	H
ATOM	2792	2HH2	ARG	176	-16.946	13.391	-5.453	0.00	0.00	H
ATOM	2793	N	TRP	177	-8.405	11.997	-7.352	0.00	0.00	N
ATOM	2794	CA	TRP	177	-7.036	12.548	-7.564	0.00	0.00	C
ATOM	2795	C	TRP	177	-6.113	11.735	-8.471	0.00	0.00	C
ATOM	2796	O	TRP	177	-5.481	12.312	-9.339	0.00	0.00	O
ATOM	2797	CB	TRP	177	-6.338	12.817	-6.241	0.00	0.00	C
ATOM	2798	CG	TRP	177	-5.127	13.610	-6.417	0.00	0.00	C
ATOM	2799	CD1	TRP	177	-5.052	14.983	-6.467	0.00	0.00	C
ATOM	2800	CD2	TRP	177	-3.802	13.097	-6.572	0.00	0.00	C
ATOM	2801	CE2	TRP	177	-2.911	14.202	-6.779	0.00	0.00	C
ATOM	2802	CE3	TRP	177	-3.200	11.771	-6.591	0.00	0.00	C
ATOM	2803	NE1	TRP	177	-3.736	15.284	-6.650	0.00	0.00	N
ATOM	2804	CZ2	TRP	177	-1.485	14.045	-6.837	0.00	0.00	C
ATOM	2805	CZ3	TRP	177	-1.779	11.613	-6.765	0.00	0.00	C
ATOM	2806	CH2	TRP	177	-0.913	12.743	-6.941	0.00	0.00	C
ATOM	2807	H	TRP	177	-8.622	11.664	-6.423	0.00	0.00	H
ATOM	2808	HA	TRP	177	-7.184	13.553	-7.958	0.00	0.00	H

ATOM	2809	HB2	TRP	177	-7.056	13.355	-5.623	0.00	0.00	H
ATOM	2810	HB3	TRP	177	-6.129	11.869	-5.743	0.00	0.00	H
ATOM	2811	HD1	TRP	177	-5.862	15.698	-6.466	0.00	0.00	H
ATOM	2812	HE1	TRP	177	-3.472	16.259	-6.662	0.00	0.00	H
ATOM	2813	HE3	TRP	177	-3.773	10.856	-6.631	0.00	0.00	H
ATOM	2814	HZ2	TRP	177	-0.861	14.911	-6.998	0.00	0.00	H
ATOM	2815	HZ3	TRP	177	-1.284	10.654	-6.793	0.00	0.00	H
ATOM	2816	HH2	TRP	177	0.151	12.567	-7.007	0.00	0.00	H
ATOM	2817	N	ILE	178	-6.067	10.349	-8.255	0.00	0.00	N
ATOM	2818	CA	ILE	178	-5.574	9.346	-9.225	0.00	0.00	C
ATOM	2819	C	ILE	178	-6.083	9.524	-10.674	0.00	0.00	C
ATOM	2820	O	ILE	178	-5.322	9.671	-11.635	0.00	0.00	O
ATOM	2821	CB	ILE	178	-5.694	7.854	-8.749	0.00	0.00	C
ATOM	2822	CG1	ILE	178	-4.987	7.638	-7.394	0.00	0.00	C
ATOM	2823	CG2	ILE	178	-4.988	6.866	-9.804	0.00	0.00	C
ATOM	2824	CD1	ILE	178	-5.371	6.363	-6.594	0.00	0.00	C
ATOM	2825	H	ILE	178	-6.446	9.949	-7.408	0.00	0.00	H
ATOM	2826	HA	ILE	178	-4.497	9.482	-9.330	0.00	0.00	H
ATOM	2827	HB	ILE	178	-6.739	7.547	-8.781	0.00	0.00	H
ATOM	2828	ZHG1	ILE	178	-3.988	7.541	-7.514	0.00	0.00	H
ATOM	2829	ZHG1	ILE	178	-5.194	8.479	-6.733	0.00	0.00	H
ATOM	2830	1HG2	ILE	178	-4.122	7.444	-10.126	0.00	0.00	H
ATOM	2831	ZHG2	ILE	178	-4.628	5.961	-9.314	0.00	0.00	H
ATOM	2832	3HG2	ILE	178	-5.678	6.644	-10.618	0.00	0.00	H
ATOM	2833	1HD1	ILE	178	-4.837	6.223	-5.654	0.00	0.00	H
ATOM	2834	ZHD1	ILE	178	-6.433	6.404	-6.355	0.00	0.00	H
ATOM	2835	3HD1	ILE	178	-5.225	5.427	-7.132	0.00	0.00	H
ATOM	2836	N	ALA	179	-7.376	9.610	-10.803	0.00	0.00	N
ATOM	2837	CA	ALA	179	-8.182	9.665	-12.027	0.00	0.00	C
ATOM	2838	C	ALA	179	-7.887	10.922	-12.900	0.00	0.00	C
ATOM	2839	O	ALA	179	-7.873	10.814	-14.109	0.00	0.00	O
ATOM	2840	CB	ALA	179	-9.580	9.466	-11.507	0.00	0.00	C
ATOM	2841	H	ALA	179	-7.951	9.550	-9.975	0.00	0.00	H
ATOM	2842	HA	ALA	179	-7.887	8.771	-12.577	0.00	0.00	H
ATOM	2843	HB1	ALA	179	-9.886	10.314	-10.894	0.00	0.00	H
ATOM	2844	HB2	ALA	179	-10.207	9.326	-12.387	0.00	0.00	H
ATOM	2845	HB3	ALA	179	-9.654	8.514	-10.981	0.00	0.00	H
ATOM	2846	N	GLN	180	-7.726	12.061	-12.253	0.00	0.00	N
ATOM	2847	CA	GLN	180	-7.350	13.303	-12.940	0.00	0.00	C
ATOM	2848	C	GLN	180	-5.801	13.487	-13.120	0.00	0.00	C
ATOM	2849	O	GLN	180	-5.378	14.404	-13.808	0.00	0.00	O
ATOM	2850	CB	GLN	180	-7.863	14.400	-12.036	0.00	0.00	C
ATOM	2851	CG	GLN	180	-9.394	14.512	-11.881	0.00	0.00	C
ATOM	2852	CD	GLN	180	-9.752	15.698	-10.916	0.00	0.00	C
ATOM	2853	NE2	GLN	180	-11.034	15.812	-10.719	0.00	0.00	N
ATOM	2854	OE1	GLN	180	-9.012	16.591	-10.486	0.00	0.00	O
ATOM	2855	H	GLN	180	-7.796	12.114	-11.247	0.00	0.00	H
ATOM	2856	HA	GLN	180	-7.769	13.384	-13.944	0.00	0.00	H
ATOM	2857	HB2	GLN	180	-7.375	14.338	-11.063	0.00	0.00	H
ATOM	2858	HB3	GLN	180	-7.616	15.362	-12.484	0.00	0.00	H
ATOM	2859	HG2	GLN	180	-9.765	14.735	-12.882	0.00	0.00	H
ATOM	2860	HG3	GLN	180	-9.822	13.569	-11.541	0.00	0.00	H
ATOM	2861	1HE2	GLN	180	-11.331	16.623	-10.196	0.00	0.00	H
ATOM	2862	ZHE2	GLN	180	-11.641	15.177	-11.214	0.00	0.00	H
ATOM	2863	N	ARG	181	-5.017	12.516	-12.614	0.00	0.00	N
ATOM	2864	CA	ARG	181	-3.619	12.359	-13.083	0.00	0.00	C
ATOM	2865	C	ARG	181	-3.351	11.319	-14.231	0.00	0.00	C
ATOM	2866	O	ARG	181	-2.307	11.278	-14.885	0.00	0.00	O
ATOM	2867	CB	ARG	181	-2.716	12.201	-11.880	0.00	0.00	C
ATOM	2868	CG	ARG	181	-1.197	12.089	-12.142	0.00	0.00	C
ATOM	2869	CD	ARG	181	-0.504	12.148	-10.762	0.00	0.00	C
ATOM	2870	NE	ARG	181	0.881	11.586	-10.676	0.00	0.00	N
ATOM	2871	CZ	ARG	181	2.008	12.234	-10.594	0.00	0.00	C
ATOM	2872	NH1	ARG	181	3.108	11.562	-10.487	0.00	0.00	N
ATOM	2873	NH2	ARG	181	1.995	13.551	-10.483	0.00	0.00	N
ATOM	2874	H	ARG	181	-5.389	11.948	-11.866	0.00	0.00	H
ATOM	2875	HA	ARG	181	-3.348	13.247	-13.654	0.00	0.00	H
ATOM	2876	HB2	ARG	181	-2.942	13.047	-11.230	0.00	0.00	H
ATOM	2877	HB3	ARG	181	-3.047	11.423	-11.192	0.00	0.00	H
ATOM	2878	HG2	ARG	181	-1.041	11.093	-12.559	0.00	0.00	H
ATOM	2879	HG3	ARG	181	-0.897	12.934	-12.761	0.00	0.00	H
ATOM	2880	HD2	ARG	181	-0.544	13.139	-10.311	0.00	0.00	H
ATOM	2881	HD3	ARG	181	-1.193	11.632	-10.094	0.00	0.00	H
ATOM	2882	HE	ARG	181	1.042	10.592	-10.591	0.00	0.00	H
ATOM	2883	1HH1	ARG	181	3.008	10.558	-10.531	0.00	0.00	H
ATOM	2884	ZHH1	ARG	181	3.999	11.956	-10.755	0.00	0.00	H
ATOM	2885	1HH2	ARG	181	1.248	14.119	-10.860	0.00	0.00	H
ATOM	2886	ZHH2	ARG	181	2.815	14.084	-10.232	0.00	0.00	H
ATOM	2887	N	GLY	182	-4.350	10.505	-14.541	0.00	0.00	N
ATOM	2888	CA	GLY	182	-4.479	9.563	-15.645	0.00	0.00	C
ATOM	2889	C	GLY	182	-4.473	8.094	-15.292	0.00	0.00	C
ATOM	2890	O	GLY	182	-4.170	7.258	-16.146	0.00	0.00	O
ATOM	2891	H	GLY	182	-5.213	10.751	-14.075	0.00	0.00	H
ATOM	2892	HA2	GLY	182	-5.457	9.782	-16.077	0.00	0.00	H
ATOM	2893	HA3	GLY	182	-3.746	9.698	-16.441	0.00	0.00	H
ATOM	2894	N	GLY	183	-4.590	7.697	-14.005	0.00	0.00	N
ATOM	2895	CA	GLY	183	-4.578	6.305	-13.519	0.00	0.00	C
ATOM	2896	C	GLY	183	-3.157	5.851	-13.289	0.00	0.00	C
ATOM	2897	O	GLY	183	-2.268	6.659	-13.602	0.00	0.00	O
ATOM	2898	H	GLY	183	-4.761	8.437	-13.338	0.00	0.00	H
ATOM	2899	HA2	GLY	183	-5.250	6.283	-12.661	0.00	0.00	H
ATOM	2900	HA3	GLY	183	-5.089	5.677	-14.248	0.00	0.00	H
ATOM	2901	N	TRP	184	-2.960	4.699	-12.683	0.00	0.00	N
ATOM	2902	CA	TRP	184	-1.607	4.331	-12.179	0.00	0.00	C
ATOM	2903	C	TRP	184	-0.481	4.251	-13.320	0.00	0.00	C
ATOM	2904	O	TRP	184	0.660	4.732	-13.148	0.00	0.00	O
ATOM	2905	CB	TRP	184	-1.765	2.969	-11.422	0.00	0.00	C
ATOM	2906	CG	TRP	184	-2.474	3.000	-10.128	0.00	0.00	C
ATOM	2907	CD1	TRP	184	-3.805	2.942	-9.998	0.00	0.00	C
ATOM	2908	CD2	TRP	184	-1.930	3.079	-8.823	0.00	0.00	C
ATOM	2909	CE2	TRP	184	-2.958	3.149	-7.871	0.00	0.00	C
ATOM	2910	CE3	TRP	184	-0.587	3.173	-8.294	0.00	0.00	C
ATOM	2911	NE1	TRP	184	-4.115	3.015	-8.671	0.00	0.00	N
ATOM	2912	CZ2	TRP	184	-2.734	3.190	-6.513	0.00	0.00	C
ATOM	2913	CZ3	TRP	184	-0.350	3.193	-6.863	0.00	0.00	C

ATOM	2914	CH2	TRP	184	-1.469	3.258	-6.002	0.00	0.00	C
ATOM	2915	H	TRP	184	-3.795	4.217	-12.388	0.00	0.00	H
ATOM	2916	HA	TRP	184	-1.355	5.130	-11.482	0.00	0.00	H
ATOM	2917	HB2	TRP	184	-2.230	2.300	-12.146	0.00	0.00	H
ATOM	2918	HB3	TRP	184	-0.770	2.565	-11.237	0.00	0.00	H
ATOM	2919	HD1	TRP	184	-4.481	2.999	-10.838	0.00	0.00	H
ATOM	2920	HE1	TRP	184	-5.078	3.122	-8.387	0.00	0.00	H
ATOM	2921	HE3	TRP	184	0.231	3.197	-8.999	0.00	0.00	H
ATOM	2922	HZ2	TRP	184	-3.594	3.226	-5.863	0.00	0.00	H
ATOM	2923	HZ3	TRP	184	0.649	3.142	-6.456	0.00	0.00	H
ATOM	2924	HH2	TRP	184	-1.327	3.380	-4.939	0.00	0.00	H
ATOM	2925	N	VAL	185	-0.801	3.651	-14.465	0.00	0.00	N
ATOM	2926	CA	VAL	185	0.030	3.436	-15.638	0.00	0.00	C
ATOM	2927	C	VAL	185	0.571	4.747	-16.178	0.00	0.00	C
ATOM	2928	O	VAL	185	1.668	4.865	-16.672	0.00	0.00	O
ATOM	2929	CB	VAL	185	-0.755	2.574	-16.690	0.00	0.00	C
ATOM	2930	CG1	VAL	185	0.218	1.877	-17.652	0.00	0.00	C
ATOM	2931	CG2	VAL	185	-1.527	1.305	-16.043	0.00	0.00	C
ATOM	2932	H	VAL	185	-1.792	3.493	-14.579	0.00	0.00	H
ATOM	2933	HA	VAL	185	0.850	2.811	-15.286	0.00	0.00	H
ATOM	2934	HB	VAL	185	-1.481	3.125	-17.290	0.00	0.00	H
ATOM	2935	1HG1	VAL	185	-0.286	1.022	-18.103	0.00	0.00	H
ATOM	2936	2HG1	VAL	185	0.452	2.413	-18.571	0.00	0.00	H
ATOM	2937	3HG1	VAL	185	1.107	1.480	-17.160	0.00	0.00	H
ATOM	2938	1HG2	VAL	185	-2.014	1.559	-15.101	0.00	0.00	H
ATOM	2939	2HG2	VAL	185	-2.184	0.708	-16.675	0.00	0.00	H
ATOM	2940	3HG2	VAL	185	-0.743	0.625	-15.716	0.00	0.00	H
ATOM	2941	N	ALA	186	-0.110	5.856	-15.933	0.00	0.00	N
ATOM	2942	CA	ALA	186	0.343	7.161	-16.357	0.00	0.00	C
ATOM	2943	C	ALA	186	0.885	7.968	-15.179	0.00	0.00	C
ATOM	2944	O	ALA	186	1.995	8.544	-15.247	0.00	0.00	O
ATOM	2945	CB	ALA	186	-0.838	7.863	-17.035	0.00	0.00	C
ATOM	2946	H	ALA	186	-1.030	5.797	-15.523	0.00	0.00	H
ATOM	2947	HA	ALA	186	1.208	7.100	-17.017	0.00	0.00	H
ATOM	2948	HB1	ALA	186	-0.563	8.881	-17.315	0.00	0.00	H
ATOM	2949	HB2	ALA	186	-1.156	7.314	-17.922	0.00	0.00	H
ATOM	2950	HB3	ALA	186	-1.718	7.860	-16.391	0.00	0.00	H
ATOM	2951	N	ALA	187	0.151	8.019	-14.068	0.00	0.00	N
ATOM	2952	CA	ALA	187	0.552	8.571	-12.760	0.00	0.00	C
ATOM	2953	C	ALA	187	2.001	8.174	-12.288	0.00	0.00	C
ATOM	2954	O	ALA	187	2.665	8.954	-11.641	0.00	0.00	O
ATOM	2955	CB	ALA	187	-0.458	8.286	-11.707	0.00	0.00	C
ATOM	2956	H	ALA	187	-0.734	7.535	-14.012	0.00	0.00	H
ATOM	2957	HA	ALA	187	0.468	9.649	-12.893	0.00	0.00	H
ATOM	2958	HB1	ALA	187	-0.384	9.016	-10.903	0.00	0.00	H
ATOM	2959	HB2	ALA	187	-1.471	8.379	-12.098	0.00	0.00	H
ATOM	2960	HB3	ALA	187	-0.309	7.289	-11.291	0.00	0.00	H
ATOM	2961	N	LEU	188	2.475	6.941	-12.624	0.00	0.00	N
ATOM	2962	CA	LEU	188	3.840	6.417	-12.499	0.00	0.00	C
ATOM	2963	C	LEU	188	4.853	6.715	-13.619	0.00	0.00	C
ATOM	2964	O	LEU	188	6.019	6.891	-13.316	0.00	0.00	O
ATOM	2965	CB	LEU	188	3.761	4.882	-12.240	0.00	0.00	C
ATOM	2966	CG	LEU	188	5.033	4.169	-11.802	0.00	0.00	C
ATOM	2967	CD1	LEU	188	5.378	4.707	-10.475	0.00	0.00	C
ATOM	2968	CD2	LEU	188	4.755	2.662	-11.723	0.00	0.00	C
ATOM	2969	H	LEU	188	1.757	6.458	-13.145	0.00	0.00	H
ATOM	2970	HA	LEU	188	4.359	6.788	-11.615	0.00	0.00	H
ATOM	2971	HB2	LEU	188	3.066	4.745	-11.411	0.00	0.00	H
ATOM	2972	HB3	LEU	188	3.428	4.461	-13.188	0.00	0.00	H
ATOM	2973	HG	LEU	188	5.827	4.327	-12.531	0.00	0.00	H
ATOM	2974	1HD1	LEU	188	5.669	5.752	-10.585	0.00	0.00	H
ATOM	2975	2HD1	LEU	188	4.558	4.622	-9.761	0.00	0.00	H
ATOM	2976	3HD1	LEU	188	6.319	4.280	-10.127	0.00	0.00	H
ATOM	2977	1HD2	LEU	188	5.631	2.115	-11.373	0.00	0.00	H
ATOM	2978	2HD2	LEU	188	3.902	2.508	-11.061	0.00	0.00	H
ATOM	2979	3HD2	LEU	188	4.456	2.324	-12.713	0.00	0.00	H
ATOM	2980	N	ASN	189	4.330	6.882	-14.834	0.00	0.00	N
ATOM	2981	CA	ASN	189	5.132	7.196	-15.976	0.00	0.00	C
ATOM	2982	C	ASN	189	5.720	8.662	-15.905	0.00	0.00	C
ATOM	2983	O	ASN	189	6.877	8.910	-16.089	0.00	0.00	O
ATOM	2984	CB	ASN	189	4.232	6.845	-17.176	0.00	0.00	C
ATOM	2985	CG	ASN	189	4.816	7.128	-18.587	0.00	0.00	C
ATOM	2986	ND2	ASN	189	4.105	6.663	-19.620	0.00	0.00	N
ATOM	2987	OD1	ASN	189	5.890	7.649	-18.752	0.00	0.00	O
ATOM	2988	H	ASN	189	3.334	6.870	-14.996	0.00	0.00	H
ATOM	2989	HA	ASN	189	5.935	6.460	-15.966	0.00	0.00	H
ATOM	2990	HB2	ASN	189	3.952	5.792	-17.137	0.00	0.00	H
ATOM	2991	HB3	ASN	189	3.353	7.490	-17.185	0.00	0.00	H
ATOM	2992	1HD2	ASN	189	4.490	6.823	-20.539	0.00	0.00	H
ATOM	2993	2HD2	ASN	189	3.159	6.352	-19.447	0.00	0.00	H
ATOM	2994	N	LEU	190	4.862	9.550	-15.400	0.00	0.00	N
ATOM	2995	CA	LEU	190	5.151	10.913	-14.858	0.00	0.00	C
ATOM	2996	C	LEU	190	5.964	10.834	-13.567	0.00	0.00	C
ATOM	2997	O	LEU	190	5.372	10.749	-12.474	0.00	0.00	O
ATOM	2998	CB	LEU	190	3.922	11.841	-14.903	0.00	0.00	C
ATOM	2999	CG	LEU	190	4.184	13.357	-14.654	0.00	0.00	C
ATOM	3000	CD1	LEU	190	5.128	14.038	-15.719	0.00	0.00	C
ATOM	3001	CD2	LEU	190	3.030	14.145	-14.307	0.00	0.00	C
ATOM	3002	H	LEU	190	3.914	9.214	-15.307	0.00	0.00	H
ATOM	3003	HA	LEU	190	5.808	11.341	-15.617	0.00	0.00	H
ATOM	3004	HB2	LEU	190	3.459	11.599	-15.860	0.00	0.00	H
ATOM	3005	HB3	LEU	190	3.221	11.480	-14.151	0.00	0.00	H
ATOM	3006	HG	LEU	190	4.726	13.419	-13.712	0.00	0.00	H
ATOM	3007	1HD1	LEU	190	6.044	13.462	-15.848	0.00	0.00	H
ATOM	3008	2HD1	LEU	190	4.579	14.076	-16.660	0.00	0.00	H
ATOM	3009	3HD1	LEU	190	5.210	15.096	-15.467	0.00	0.00	H
ATOM	3010	1HD2	LEU	190	2.556	13.633	-13.470	0.00	0.00	H
ATOM	3011	2HD2	LEU	190	2.429	14.203	-15.215	0.00	0.00	H
ATOM	3012	3HD2	LEU	190	3.311	15.174	-14.088	0.00	0.00	H
TER	3013									
ATOM	3014	O	WAT	204	-4.290	14.794	-9.654	0.00	0.00	O
ATOM	3015	H1	WAT	204	-4.665	13.920	-9.762	0.00	0.00	H
ATOM	3016	H2	WAT	204	-3.925	14.789	-8.769	0.00	0.00	H
TER	3017									
ATOM	3018	O	WAT	231	-2.497	11.176	25.238	0.00	0.00	O

ATOM	3019	H1	WAT	231	-2.405	11.473	24.332	0.00	0.00	H
ATOM	3020	H2	WAT	231	-1.790	10.541	25.356	0.00	0.00	H
TER	3021		WAT	231						
ATOM	3022	O	WAT	282	-15.941	10.566	-3.711	0.00	0.00	O
ATOM	3023	H1	WAT	282	-15.588	10.563	-4.601	0.00	0.00	H
ATOM	3024	H2	WAT	282	-15.437	9.894	-3.252	0.00	0.00	H
TER	3025		WAT	282						
ATOM	3026	O	WAT	318	-13.926	16.790	-2.663	0.00	0.00	O
ATOM	3027	H1	WAT	318	-13.797	17.681	-2.338	0.00	0.00	H
ATOM	3028	H2	WAT	318	-13.102	16.572	-3.099	0.00	0.00	H
TER	3029		WAT	318						
ATOM	3030	O	WAT	372	-1.446	-16.610	10.160	0.00	0.00	O
ATOM	3031	H1	WAT	372	-2.005	-15.892	9.865	0.00	0.00	H
ATOM	3032	H2	WAT	372	-1.754	-16.807	11.045	0.00	0.00	H
TER	3033		WAT	372						
ATOM	3034	O	WAT	419	-2.183	-9.308	-9.603	0.00	0.00	O
ATOM	3035	H1	WAT	419	-1.900	-8.400	-9.706	0.00	0.00	H
ATOM	3036	H2	WAT	419	-3.081	-9.244	-9.277	0.00	0.00	H
TER	3037		WAT	419						
ATOM	3038	O	WAT	434	-20.297	4.799	-7.785	0.00	0.00	O
ATOM	3039	H1	WAT	434	-19.957	3.906	-7.731	0.00	0.00	H
ATOM	3040	H2	WAT	434	-19.758	5.299	-7.171	0.00	0.00	H
TER	3041		WAT	434						
ATOM	3042	O	WAT	436	15.255	5.345	8.393	0.00	0.00	O
ATOM	3043	H1	WAT	436	14.325	5.565	8.366	0.00	0.00	H
ATOM	3044	H2	WAT	436	15.307	4.474	7.997	0.00	0.00	H
TER	3045		WAT	436						
ATOM	3046	O	WAT	440	-3.674	-15.765	-5.297	0.00	0.00	O
ATOM	3047	H1	WAT	440	-3.698	-16.512	-5.896	0.00	0.00	H
ATOM	3048	H2	WAT	440	-4.506	-15.315	-5.442	0.00	0.00	H
TER	3049		WAT	440						
ATOM	3050	O	WAT	468	-13.146	10.411	-11.978	0.00	0.00	O
ATOM	3051	H1	WAT	468	-12.238	10.210	-12.197	0.00	0.00	H
ATOM	3052	H2	WAT	468	-13.664	9.914	-12.612	0.00	0.00	H
TER	3053		WAT	468						
ATOM	3054	O	WAT	534	-16.007	13.079	0.327	0.00	0.00	O
ATOM	3055	H1	WAT	534	-15.619	12.211	0.443	0.00	0.00	H
ATOM	3056	H2	WAT	534	-16.768	13.080	0.908	0.00	0.00	H
TER	3057		WAT	534						
ATOM	3058	O	WAT	537	1.947	-8.456	15.701	0.00	0.00	O
ATOM	3059	H1	WAT	537	2.879	-8.270	15.583	0.00	0.00	H
ATOM	3060	H2	WAT	537	1.753	-8.157	16.589	0.00	0.00	H
ATOM	3061	O	WAT	538	7.972	-7.439	10.905	0.00	0.00	O
ATOM	3062	H1	WAT	538	7.643	-8.316	10.709	0.00	0.00	H
ATOM	3063	H2	WAT	538	8.760	-7.354	10.367	0.00	0.00	H
TER	3064		WAT	538						
ATOM	3065	O	WAT	545	-5.963	-11.029	18.364	0.00	0.00	O
ATOM	3066	H1	WAT	545	-5.567	-10.426	17.737	0.00	0.00	H
ATOM	3067	H2	WAT	545	-6.381	-11.699	17.823	0.00	0.00	H
TER	3068		WAT	545						
ATOM	3069	O	WAT	550	11.309	-17.139	-7.444	0.00	0.00	O
ATOM	3070	H1	WAT	550	10.547	-16.800	-6.975	0.00	0.00	H
ATOM	3071	H2	WAT	550	12.059	-16.769	-6.980	0.00	0.00	H
TER	3072		WAT	550						
ATOM	3073	O	WAT	591	9.232	9.774	-11.405	0.00	0.00	O
ATOM	3074	H1	WAT	591	8.765	8.997	-11.099	0.00	0.00	H
ATOM	3075	H2	WAT	591	10.152	9.593	-11.211	0.00	0.00	H
TER	3076		WAT	591						
ATOM	3077	O	WAT	610	20.093	-3.311	4.482	0.00	0.00	O
ATOM	3078	H1	WAT	610	19.371	-3.738	4.021	0.00	0.00	H
ATOM	3079	H2	WAT	610	20.442	-2.681	3.852	0.00	0.00	H
TER	3080		WAT	610						
ATOM	3081	O	WAT	613	-8.794	-17.201	2.391	0.00	0.00	O
ATOM	3082	H1	WAT	613	-7.917	-16.822	2.335	0.00	0.00	H
ATOM	3083	H2	WAT	613	-8.717	-17.889	3.051	0.00	0.00	H
TER	3084		WAT	613						
ATOM	3085	O	WAT	630	-10.011	-20.861	6.780	0.00	0.00	O
ATOM	3086	H1	WAT	630	-9.407	-21.231	6.138	0.00	0.00	H
ATOM	3087	H2	WAT	630	-9.917	-19.913	6.679	0.00	0.00	H
TER	3088		WAT	630						
ATOM	3089	O	WAT	632	0.042	10.198	22.388	0.00	0.00	O
ATOM	3090	H1	WAT	632	-0.750	10.716	22.529	0.00	0.00	H
ATOM	3091	H2	WAT	632	0.586	10.377	23.155	0.00	0.00	H
TER	3092		WAT	632						
ATOM	3093	O	WAT	645	0.320	19.361	-3.437	0.00	0.00	O
ATOM	3094	H1	WAT	645	-0.344	18.693	-3.269	0.00	0.00	H
ATOM	3095	H2	WAT	645	0.811	19.421	-2.618	0.00	0.00	H
TER	3096		WAT	645						
ATOM	3097	O	WAT	660	8.254	8.312	17.932	0.00	0.00	O
ATOM	3098	H1	WAT	660	7.580	7.673	17.700	0.00	0.00	H
ATOM	3099	H2	WAT	660	7.791	9.148	17.969	0.00	0.00	H
ATOM	3100	O	WAT	661	-9.677	-4.490	19.176	0.00	0.00	O
ATOM	3101	H1	WAT	661	-10.199	-3.686	19.166	0.00	0.00	H
ATOM	3102	H2	WAT	661	-9.189	-4.446	19.999	0.00	0.00	H
TER	3103		WAT	661						
ATOM	3104	O	WAT	700	-4.011	-15.142	-11.362	0.00	0.00	O
ATOM	3105	H1	WAT	700	-3.287	-15.113	-10.737	0.00	0.00	H
ATOM	3106	H2	WAT	700	-4.503	-14.340	-11.198	0.00	0.00	H
TER	3107		WAT	700						
ATOM	3108	O	WAT	703	2.863	16.449	13.837	0.00	0.00	O
ATOM	3109	H1	WAT	703	2.198	17.056	13.511	0.00	0.00	H
ATOM	3110	H2	WAT	703	2.782	15.681	13.271	0.00	0.00	H
TER	3111		WAT	703						
ATOM	3112	O	WAT	717	14.304	8.436	11.682	0.00	0.00	O
ATOM	3113	H1	WAT	717	13.730	9.200	11.739	0.00	0.00	H
ATOM	3114	H2	WAT	717	13.724	7.716	11.437	0.00	0.00	H
TER	3115		WAT	717						
ATOM	3116	O	WAT	754	-17.720	6.966	-8.883	0.00	0.00	O
ATOM	3117	H1	WAT	754	-17.992	6.405	-8.157	0.00	0.00	H
ATOM	3118	H2	WAT	754	-18.517	7.428	-9.141	0.00	0.00	H
TER	3119		WAT	754						
ATOM	3120	O	WAT	776	-10.566	-13.356	-2.461	0.00	0.00	O
ATOM	3121	H1	WAT	776	-11.365	-13.014	-2.864	0.00	0.00	H
ATOM	3122	H2	WAT	776	-10.258	-14.026	-3.071	0.00	0.00	H
TER	3123		WAT	776						

ATOM	3124	O	WAT	781	-9.666	-9.356	-9.127	0.00	0.00	O
ATOM	3125	H1	WAT	781	-10.080	-9.152	-8.289	0.00	0.00	H
ATOM	3126	H2	WAT	781	-9.046	-8.639	-9.269	0.00	0.00	H
TER	3127		WAT	781						
ATOM	3128	O	WAT	826	13.564	-5.312	8.781	0.00	0.00	O
ATOM	3129	H1	WAT	826	12.766	-5.018	8.343	0.00	0.00	H
ATOM	3130	H2	WAT	826	13.274	-6.012	9.364	0.00	0.00	H
TER	3131		WAT	826						
ATOM	3132	O	WAT	850	-7.760	-0.263	-16.593	0.00	0.00	O
ATOM	3133	H1	WAT	850	-8.150	0.601	-16.720	0.00	0.00	H
ATOM	3134	H2	WAT	850	-8.265	-0.650	-15.877	0.00	0.00	H
TER	3135		WAT	850						
ATOM	3136	O	WAT	883	12.969	2.145	-12.362	0.00	0.00	O
ATOM	3137	H1	WAT	883	13.580	1.510	-11.990	0.00	0.00	H
ATOM	3138	H2	WAT	883	12.427	2.417	-11.621	0.00	0.00	H
TER	3139		WAT	883						
ATOM	3140	O	WAT	895	10.860	6.874	13.379	0.00	0.00	O
ATOM	3141	H1	WAT	895	11.449	6.581	12.684	0.00	0.00	H
ATOM	3142	H2	WAT	895	10.009	6.966	12.949	0.00	0.00	H
TER	3143		WAT	895						
ATOM	3144	O	WAT	903	4.873	-4.737	15.627	0.00	0.00	O
ATOM	3145	H1	WAT	903	5.031	-5.366	16.329	0.00	0.00	H
ATOM	3146	H2	WAT	903	5.633	-4.156	15.647	0.00	0.00	H
TER	3147		WAT	903						
ATOM	3148	O	WAT	908	-7.730	-19.319	11.108	0.00	0.00	O
ATOM	3149	H1	WAT	908	-7.974	-18.395	11.052	0.00	0.00	H
ATOM	3150	H2	WAT	908	-7.713	-19.506	12.049	0.00	0.00	H
TER	3151		WAT	908						
ATOM	3152	O	WAT	910	19.213	2.831	-4.886	0.00	0.00	O
ATOM	3153	H1	WAT	910	18.281	2.870	-4.670	0.00	0.00	H
ATOM	3154	H2	WAT	910	19.525	2.037	-4.455	0.00	0.00	H
TER	3155		WAT	910						
ATOM	3156	O	WAT	917	20.805	-18.793	2.003	0.00	0.00	O
ATOM	3157	H1	WAT	917	20.331	-18.137	1.493	0.00	0.00	H
ATOM	3158	H2	WAT	917	20.248	-19.571	1.972	0.00	0.00	H
TER	3159		WAT	917						
ATOM	3160	O	WAT	922	-0.352	18.490	21.141	0.00	0.00	O
ATOM	3161	H1	WAT	922	0.272	18.195	20.476	0.00	0.00	H
ATOM	3162	H2	WAT	922	-0.338	17.799	21.805	0.00	0.00	H
TER	3163		WAT	922						
ATOM	3164	O	WAT	927	10.704	-1.054	-15.610	0.00	0.00	O
ATOM	3165	H1	WAT	927	11.599	-1.209	-15.307	0.00	0.00	H
ATOM	3166	H2	WAT	927	10.153	-1.306	-14.871	0.00	0.00	H
TER	3167		WAT	927						
ATOM	3168	O	WAT	939	-16.400	15.513	-2.199	0.00	0.00	O
ATOM	3169	H1	WAT	939	-16.479	14.952	-1.428	0.00	0.00	H
ATOM	3170	H2	WAT	939	-15.500	15.837	-2.169	0.00	0.00	H
TER	3171		WAT	939						
ATOM	3172	O	WAT	947	1.239	-24.834	-0.175	0.00	0.00	O
ATOM	3173	H1	WAT	947	1.439	-24.513	-1.054	0.00	0.00	H
ATOM	3174	H2	WAT	947	1.174	-24.041	0.359	0.00	0.00	H
TER	3175		WAT	947						
ATOM	3176	O	WAT	976	16.723	4.967	-1.222	0.00	0.00	O
ATOM	3177	H1	WAT	976	16.164	4.492	-1.837	0.00	0.00	H
ATOM	3178	H2	WAT	976	17.300	4.296	-0.856	0.00	0.00	H
TER	3179		WAT	976						
ATOM	3180	O	WAT	993	-20.904	0.574	-8.016	0.00	0.00	O
ATOM	3181	H1	WAT	993	-21.330	0.956	-8.784	0.00	0.00	H
ATOM	3182	H2	WAT	993	-20.278	1.239	-7.733	0.00	0.00	H
TER	3183		WAT	993						
ATOM	3184	O	WAT	1003	-4.604	10.755	22.747	0.00	0.00	O
ATOM	3185	H1	WAT	1003	-3.776	11.222	22.855	0.00	0.00	H
ATOM	3186	H2	WAT	1003	-4.576	10.063	23.409	0.00	0.00	H
TER	3187		WAT	1003						
ATOM	3188	O	WAT	1022	6.896	-22.096	-3.949	0.00	0.00	O
ATOM	3189	H1	WAT	1022	6.228	-21.510	-4.306	0.00	0.00	H
ATOM	3190	H2	WAT	1022	7.242	-21.630	-3.188	0.00	0.00	H
TER	3191		WAT	1022						
ATOM	3192	O	WAT	1027	-13.296	-6.480	-5.089	0.00	0.00	O
ATOM	3193	H1	WAT	1027	-12.736	-5.761	-4.795	0.00	0.00	H
ATOM	3194	H2	WAT	1027	-12.954	-7.251	-4.637	0.00	0.00	H
TER	3195		WAT	1027						
ATOM	3196	O	WAT	1054	-7.408	-3.370	-14.222	0.00	0.00	O
ATOM	3197	H1	WAT	1054	-7.826	-2.528	-14.046	0.00	0.00	H
ATOM	3198	H2	WAT	1054	-7.767	-3.646	-15.064	0.00	0.00	H
TER	3199		WAT	1054						
ATOM	3200	O	WAT	1094	-5.839	-19.790	9.246	0.00	0.00	O
ATOM	3201	H1	WAT	1094	-6.585	-19.700	9.837	0.00	0.00	H
ATOM	3202	H2	WAT	1094	-5.259	-20.412	9.684	0.00	0.00	H
ATOM	3203	O	WAT	1095	-15.794	-7.211	13.305	0.00	0.00	O
ATOM	3204	H1	WAT	1095	-14.871	-7.315	13.539	0.00	0.00	H
ATOM	3205	H2	WAT	1095	-15.878	-6.287	13.066	0.00	0.00	H
TER	3206		WAT	1095						
ATOM	3207	O	WAT	1121	8.181	9.234	14.101	0.00	0.00	O
ATOM	3208	H1	WAT	1121	8.906	8.943	14.654	0.00	0.00	H
ATOM	3209	H2	WAT	1121	7.953	8.463	13.582	0.00	0.00	H
TER	3210		WAT	1121						
ATOM	3211	O	WAT	1131	21.335	-1.413	3.057	0.00	0.00	O
ATOM	3212	H1	WAT	1131	22.164	-1.889	3.111	0.00	0.00	H
ATOM	3213	H2	WAT	1131	21.544	-0.531	3.364	0.00	0.00	H
TER	3214		WAT	1131						
ATOM	3215	O	WAT	1141	-17.537	1.339	2.883	0.00	0.00	O
ATOM	3216	H1	WAT	1141	-18.066	1.763	3.559	0.00	0.00	H
ATOM	3217	H2	WAT	1141	-16.646	1.647	3.048	0.00	0.00	H
TER	3218		WAT	1141						
ATOM	3219	O	WAT	1184	-0.352	17.209	-5.985	0.00	0.00	O
ATOM	3220	H1	WAT	1184	-1.121	17.614	-6.385	0.00	0.00	H
ATOM	3221	H2	WAT	1184	-0.679	16.821	-5.173	0.00	0.00	H
TER	3222		WAT	1184						
ATOM	3223	O	WAT	1216	-12.123	-16.415	5.408	0.00	0.00	O
ATOM	3224	H1	WAT	1216	-11.999	-16.439	4.460	0.00	0.00	H
ATOM	3225	H2	WAT	1216	-12.186	-15.484	5.619	0.00	0.00	H
TER	3226		WAT	1216						
ATOM	3227	O	WAT	1238	1.074	-7.559	-19.699	0.00	0.00	O
ATOM	3228	H1	WAT	1238	0.216	-7.906	-19.453	0.00	0.00	H

ATOM	3229	H2	WAT	1238	1.472	-8.253	-20.222	0.00	0.00	H
TER	3230		WAT	1238						
ATOM	3231	O	WAT	1247	6.981	1.904	19.560	0.00	0.00	O
ATOM	3232	H1	WAT	1247	6.742	2.038	20.476	0.00	0.00	H
ATOM	3233	H2	WAT	1247	7.081	0.957	19.473	0.00	0.00	H
TER	3234		WAT	1247						
ATOM	3235	O	WAT	1278	7.869	5.783	-20.604	0.00	0.00	O
ATOM	3236	H1	WAT	1278	7.426	5.883	-19.761	0.00	0.00	H
ATOM	3237	H2	WAT	1278	7.924	6.673	-20.953	0.00	0.00	H
TER	3238		WAT	1278						
ATOM	3239	O	WAT	1299	10.769	16.722	-12.109	0.00	0.00	O
ATOM	3240	H1	WAT	1299	11.277	16.495	-11.329	0.00	0.00	H
ATOM	3241	H2	WAT	1299	10.359	17.559	-11.890	0.00	0.00	H
TER	3242		WAT	1299						
ATOM	3243	O	WAT	1312	5.949	-12.777	10.334	0.00	0.00	O
ATOM	3244	H1	WAT	1312	5.344	-12.046	10.453	0.00	0.00	H
ATOM	3245	H2	WAT	1312	6.434	-12.559	9.538	0.00	0.00	H
TER	3246		WAT	1312						
ATOM	3247	O	WAT	1338	13.873	-11.404	-0.188	0.00	0.00	O
ATOM	3248	H1	WAT	1338	13.024	-11.797	-0.394	0.00	0.00	H
ATOM	3249	H2	WAT	1338	14.341	-11.393	-1.021	0.00	0.00	H
TER	3250		WAT	1338						
ATOM	3251	O	WAT	1348	-9.239	-5.765	22.627	0.00	0.00	O
ATOM	3252	H1	WAT	1348	-9.358	-4.996	22.069	0.00	0.00	H
ATOM	3253	H2	WAT	1348	-8.757	-5.437	23.385	0.00	0.00	H
TER	3254		WAT	1348						
ATOM	3255	O	WAT	1393	10.983	8.257	10.743	0.00	0.00	O
ATOM	3256	H1	WAT	1393	11.204	8.456	9.832	0.00	0.00	H
ATOM	3257	H2	WAT	1393	11.603	7.574	10.996	0.00	0.00	H
TER	3258		WAT	1393						
ATOM	3259	O	WAT	1406	18.716	15.071	-12.679	0.00	0.00	O
ATOM	3260	H1	WAT	1406	17.871	14.635	-12.566	0.00	0.00	H
ATOM	3261	H2	WAT	1406	18.676	15.829	-12.097	0.00	0.00	H
TER	3262		WAT	1406						
ATOM	3263	O	WAT	1485	-9.923	-18.319	6.196	0.00	0.00	O
ATOM	3264	H1	WAT	1485	-10.664	-17.783	5.911	0.00	0.00	H
ATOM	3265	H2	WAT	1485	-9.380	-18.413	5.413	0.00	0.00	H
TER	3266		WAT	1485						
ATOM	3267	O	WAT	1490	-20.504	2.226	-4.431	0.00	0.00	O
ATOM	3268	H1	WAT	1490	-20.772	1.338	-4.195	0.00	0.00	H
ATOM	3269	H2	WAT	1490	-19.649	2.117	-4.845	0.00	0.00	H
TER	3270		WAT	1490						
ATOM	3271	O	WAT	1499	-8.695	14.619	7.384	0.00	0.00	O
ATOM	3272	H1	WAT	1499	-8.914	15.484	7.732	0.00	0.00	H
ATOM	3273	H2	WAT	1499	-7.777	14.490	7.626	0.00	0.00	H
TER	3274		WAT	1499						
ATOM	3275	O	WAT	1533	-3.006	4.214	18.808	0.00	0.00	O
ATOM	3276	H1	WAT	1533	-2.331	3.537	18.765	0.00	0.00	H
ATOM	3277	H2	WAT	1533	-3.574	3.943	19.530	0.00	0.00	H
TER	3278		WAT	1533						
ATOM	3279	O	WAT	1635	-15.724	3.758	4.806	0.00	0.00	O
ATOM	3280	H1	WAT	1635	-14.919	4.161	5.131	0.00	0.00	H
ATOM	3281	H2	WAT	1635	-15.441	3.224	4.063	0.00	0.00	H
TER	3282		WAT	1635						
ATOM	3283	O	WAT	1647	5.387	-20.960	3.454	0.00	0.00	O
ATOM	3284	H1	WAT	1647	5.082	-21.033	2.550	0.00	0.00	H
ATOM	3285	H2	WAT	1647	4.877	-21.612	3.933	0.00	0.00	H
TER	3286		WAT	1647						
ATOM	3287	O	WAT	1654	10.931	15.779	9.278	0.00	0.00	O
ATOM	3288	H1	WAT	1654	10.802	16.422	9.977	0.00	0.00	H
ATOM	3289	H2	WAT	1654	11.544	15.142	9.647	0.00	0.00	H
TER	3290		WAT	1654						
ATOM	3291	O	WAT	1698	1.793	21.132	4.641	0.00	0.00	O
ATOM	3292	H1	WAT	1698	1.058	21.472	4.129	0.00	0.00	H
ATOM	3293	H2	WAT	1698	2.134	21.895	5.108	0.00	0.00	H
TER	3294		WAT	1698						
ATOM	3295	O	WAT	1716	-8.625	2.327	-16.125	0.00	0.00	O
ATOM	3296	H1	WAT	1716	-7.951	2.883	-15.731	0.00	0.00	H
ATOM	3297	H2	WAT	1716	-8.876	1.723	-15.426	0.00	0.00	H
TER	3298		WAT	1716						
ATOM	3299	O	WAT	1724	-6.837	-14.783	-9.628	0.00	0.00	O
ATOM	3300	H1	WAT	1724	-7.683	-14.872	-9.191	0.00	0.00	H
ATOM	3301	H2	WAT	1724	-7.057	-14.560	-10.534	0.00	0.00	H
TER	3302		WAT	1724						
ATOM	3303	O	WAT	1729	18.847	-18.616	6.015	0.00	0.00	O
ATOM	3304	H1	WAT	1729	18.480	-19.340	5.511	0.00	0.00	H
ATOM	3305	H2	WAT	1729	18.188	-18.431	6.684	0.00	0.00	H
TER	3306		WAT	1729						
ATOM	3307	O	WAT	1743	4.608	-7.591	8.595	0.00	0.00	O
ATOM	3308	H1	WAT	1743	5.184	-6.848	8.775	0.00	0.00	H
ATOM	3309	H2	WAT	1743	4.515	-8.030	9.441	0.00	0.00	H
TER	3310		WAT	1743						
ATOM	3311	O	WAT	1757	4.262	-12.289	13.402	0.00	0.00	O
ATOM	3312	H1	WAT	1757	4.064	-12.037	12.500	0.00	0.00	H
ATOM	3313	H2	WAT	1757	5.132	-11.925	13.568	0.00	0.00	H
TER	3314		WAT	1757						
ATOM	3315	O	WAT	1771	-9.855	-14.788	8.532	0.00	0.00	O
ATOM	3316	H1	WAT	1771	-9.729	-15.631	8.968	0.00	0.00	H
ATOM	3317	H2	WAT	1771	-10.765	-14.803	8.239	0.00	0.00	H
TER	3318		WAT	1771						
ATOM	3319	O	WAT	1777	1.349	-18.287	7.212	0.00	0.00	O
ATOM	3320	H1	WAT	1777	0.519	-18.440	6.762	0.00	0.00	H
ATOM	3321	H2	WAT	1777	1.974	-18.111	6.509	0.00	0.00	H
TER	3322		WAT	1777						
ATOM	3323	O	WAT	1792	-16.435	-7.435	7.225	0.00	0.00	O
ATOM	3324	H1	WAT	1792	-16.246	-6.511	7.063	0.00	0.00	H
ATOM	3325	H2	WAT	1792	-16.095	-7.888	6.454	0.00	0.00	H
TER	3326		WAT	1792						
ATOM	3327	O	WAT	1800	-4.413	-3.716	-19.243	0.00	0.00	O
ATOM	3328	H1	WAT	1800	-5.257	-3.388	-19.549	0.00	0.00	H
ATOM	3329	H2	WAT	1800	-3.862	-3.728	-20.027	0.00	0.00	H
TER	3330		WAT	1800						
ATOM	3331	O	WAT	1807	12.758	2.219	14.867	0.00	0.00	O
ATOM	3332	H1	WAT	1807	12.978	2.633	15.701	0.00	0.00	H
ATOM	3333	H2	WAT	1807	12.104	1.558	15.093	0.00	0.00	H

TER	3334	WAT	1807							
ATOM	3335	O	WAT	1810	13.067	-18.827	-6.307	0.00	0.00	O
ATOM	3336	H1	WAT	1810	12.158	-18.696	-6.577	0.00	0.00	H
ATOM	3337	H2	WAT	1810	13.454	-17.952	-6.334	0.00	0.00	H
TER	3338	WAT	1810							
ATOM	3339	O	WAT	1828	19.657	4.704	-6.904	0.00	0.00	O
ATOM	3340	H1	WAT	1828	19.553	4.008	-6.253	0.00	0.00	H
ATOM	3341	H2	WAT	1828	20.551	4.595	-7.230	0.00	0.00	H
TER	3342	WAT	1828							
ATOM	3343	O	WAT	1867	-9.096	6.619	-15.584	0.00	0.00	O
ATOM	3344	H1	WAT	1867	-8.940	7.336	-16.200	0.00	0.00	H
ATOM	3345	H2	WAT	1867	-10.041	6.633	-15.436	0.00	0.00	H
TER	3346	WAT	1867							
ATOM	3347	O	WAT	1869	-3.265	4.483	-16.167	0.00	0.00	O
ATOM	3348	H1	WAT	1869	-3.768	5.297	-16.181	0.00	0.00	H
ATOM	3349	H2	WAT	1869	-3.510	4.036	-16.977	0.00	0.00	H
TER	3350	WAT	1869							
ATOM	3351	O	WAT	1892	-10.962	-4.826	-8.743	0.00	0.00	O
ATOM	3352	H1	WAT	1892	-10.486	-4.043	-9.019	0.00	0.00	H
ATOM	3353	H2	WAT	1892	-10.366	-5.549	-8.941	0.00	0.00	H
TER	3354	WAT	1892							
ATOM	3355	O	WAT	1908	11.867	-9.168	-8.082	0.00	0.00	O
ATOM	3356	H1	WAT	1908	12.417	-9.577	-8.750	0.00	0.00	H
ATOM	3357	H2	WAT	1908	10.971	-9.318	-8.383	0.00	0.00	H
TER	3358	WAT	1908							
ATOM	3359	O	WAT	1933	0.250	15.443	-11.558	0.00	0.00	O
ATOM	3360	H1	WAT	1933	0.282	16.123	-12.231	0.00	0.00	H
ATOM	3361	H2	WAT	1933	0.045	15.916	-10.751	0.00	0.00	H
TER	3362	WAT	1933							
ATOM	3363	O	WAT	1945	-7.241	-23.465	2.568	0.00	0.00	O
ATOM	3364	H1	WAT	1945	-7.890	-22.830	2.869	0.00	0.00	H
ATOM	3365	H2	WAT	1945	-7.548	-23.728	1.700	0.00	0.00	H
TER	3366	WAT	1945							
ATOM	3367	O	WAT	1947	-12.402	9.463	-5.065	0.00	0.00	O
ATOM	3368	H1	WAT	1947	-12.712	8.961	-4.313	0.00	0.00	H
ATOM	3369	H2	WAT	1947	-13.193	9.858	-5.434	0.00	0.00	H
TER	3370	WAT	1947							
ATOM	3371	O	WAT	1954	1.625	-13.194	17.462	0.00	0.00	O
ATOM	3372	H1	WAT	1954	2.250	-13.810	17.842	0.00	0.00	H
ATOM	3373	H2	WAT	1954	0.775	-13.477	17.799	0.00	0.00	H
TER	3374	WAT	1954							
ATOM	3375	O	WAT	1991	12.445	-22.156	-5.024	0.00	0.00	O
ATOM	3376	H1	WAT	1991	12.448	-23.109	-4.937	0.00	0.00	H
ATOM	3377	H2	WAT	1991	11.565	-21.894	-4.750	0.00	0.00	H
ATOM	3378	O	WAT	1992	-0.899	16.549	6.602	0.00	0.00	O
ATOM	3379	H1	WAT	1992	-1.059	15.609	6.688	0.00	0.00	H
ATOM	3380	H2	WAT	1992	-1.667	16.960	6.999	0.00	0.00	H
TER	3381	WAT	1992							
ATOM	3382	O	WAT	2001	5.448	-18.811	-2.713	0.00	0.00	O
ATOM	3383	H1	WAT	2001	5.086	-19.401	-3.374	0.00	0.00	H
ATOM	3384	H2	WAT	2001	6.386	-19.007	-2.706	0.00	0.00	H
TER	3385	WAT	2001							
ATOM	3386	O	WAT	2013	-18.024	0.138	-14.698	0.00	0.00	O
ATOM	3387	H1	WAT	2013	-18.197	0.408	-15.466	0.00	0.00	H
ATOM	3388	H2	WAT	2013	-17.074	0.266	-14.706	0.00	0.00	H
ATOM	3389	O	WAT	2014	16.800	-12.668	1.192	0.00	0.00	O
ATOM	3390	H1	WAT	2014	17.226	-13.482	1.461	0.00	0.00	H
ATOM	3391	H2	WAT	2014	17.030	-12.572	0.268	0.00	0.00	H
TER	3392	WAT	2014							
ATOM	3393	O	WAT	2043	11.496	7.826	-18.318	0.00	0.00	O
ATOM	3394	H1	WAT	2043	10.548	7.693	-18.330	0.00	0.00	H
ATOM	3395	H2	WAT	2043	11.658	8.458	-19.017	0.00	0.00	H
TER	3396	WAT	2043							
ATOM	3397	O	WAT	2060	5.342	-3.505	-22.085	0.00	0.00	O
ATOM	3398	H1	WAT	2060	6.258	-3.495	-21.805	0.00	0.00	H
ATOM	3399	H2	WAT	2060	5.047	-2.602	-21.969	0.00	0.00	H
TER	3400	WAT	2060							
ATOM	3401	O	WAT	2083	8.730	7.508	-17.809	0.00	0.00	O
ATOM	3402	H1	WAT	2083	7.832	7.384	-18.114	0.00	0.00	H
ATOM	3403	H2	WAT	2083	8.652	7.586	-16.858	0.00	0.00	H
TER	3404	WAT	2083							
ATOM	3405	O	WAT	2113	10.356	-6.990	9.315	0.00	0.00	O
ATOM	3406	H1	WAT	2113	10.515	-6.375	8.601	0.00	0.00	H
ATOM	3407	H2	WAT	2113	11.188	-7.031	9.787	0.00	0.00	H
TER	3408	WAT	2113							
ATOM	3409	O	WAT	2145	-16.467	-0.799	0.085	0.00	0.00	O
ATOM	3410	H1	WAT	2145	-17.279	-0.751	-0.417	0.00	0.00	H
ATOM	3411	H2	WAT	2145	-16.284	0.106	0.333	0.00	0.00	H
TER	3412	WAT	2145							
ATOM	3413	O	WAT	2172	5.923	18.494	0.218	0.00	0.00	O
ATOM	3414	H1	WAT	2172	5.888	17.613	0.593	0.00	0.00	H
ATOM	3415	H2	WAT	2172	6.477	18.989	0.822	0.00	0.00	H
TER	3416	WAT	2172							
ATOM	3417	O	WAT	2181	11.334	13.238	5.281	0.00	0.00	O
ATOM	3418	H1	WAT	2181	10.519	13.331	4.789	0.00	0.00	H
ATOM	3419	H2	WAT	2181	11.530	14.122	5.591	0.00	0.00	H
TER	3420	WAT	2181							
ATOM	3421	O	WAT	2193	4.926	10.197	-19.251	0.00	0.00	O
ATOM	3422	H1	WAT	2193	5.758	10.572	-18.965	0.00	0.00	H
ATOM	3423	H2	WAT	2193	5.043	9.252	-19.156	0.00	0.00	H
TER	3424	WAT	2193							
ATOM	3425	O	WAT	2210	3.453	12.002	20.455	0.00	0.00	O
ATOM	3426	H1	WAT	2210	4.082	12.025	19.735	0.00	0.00	H
ATOM	3427	H2	WAT	2210	2.832	12.703	20.253	0.00	0.00	H
ATOM	3428	O	WAT	2211	-12.312	-0.031	14.125	0.00	0.00	O
ATOM	3429	H1	WAT	2211	-11.500	-0.528	14.035	0.00	0.00	H
ATOM	3430	H2	WAT	2211	-12.112	0.827	13.752	0.00	0.00	H
TER	3431	WAT	2211							
ATOM	3432	O	WAT	2224	8.033	-15.197	5.033	0.00	0.00	O
ATOM	3433	H1	WAT	2224	7.952	-16.059	4.624	0.00	0.00	H
ATOM	3434	H2	WAT	2224	7.258	-14.719	4.741	0.00	0.00	H
TER	3435	WAT	2224							
ATOM	3436	O	WAT	2243	-9.855	14.372	-0.231	0.00	0.00	O
ATOM	3437	H1	WAT	2243	-9.177	14.718	-0.810	0.00	0.00	H
ATOM	3438	H2	WAT	2243	-9.829	13.426	-0.369	0.00	0.00	H

ATOM	3544	O	WAT	2813	6.643	13.430	20.633	0.00	0.00	O
ATOM	3545	H1	WAT	2813	6.492	13.079	19.756	0.00	0.00	H
ATOM	3546	H2	WAT	2813	6.080	12.905	21.202	0.00	0.00	H
TER	3547		WAT	2813						
ATOM	3548	O	WAT	2822	16.740	-0.906	10.453	0.00	0.00	O
ATOM	3549	H1	WAT	2822	17.325	-0.199	10.724	0.00	0.00	H
ATOM	3550	H2	WAT	2822	17.117	-1.694	10.846	0.00	0.00	H
TER	3551		WAT	2822						
ATOM	3552	O	WAT	2872	12.994	-11.308	3.689	0.00	0.00	O
ATOM	3553	H1	WAT	2872	13.883	-11.482	3.379	0.00	0.00	H
ATOM	3554	H2	WAT	2872	12.521	-12.125	3.528	0.00	0.00	H
TER	3555		WAT	2872						
ATOM	3556	O	WAT	2889	-7.216	15.463	10.261	0.00	0.00	O
ATOM	3557	H1	WAT	2889	-7.212	15.002	11.100	0.00	0.00	H
ATOM	3558	H2	WAT	2889	-6.962	14.797	9.621	0.00	0.00	H
TER	3559		WAT	2889						
ATOM	3560	O	WAT	2895	-13.463	17.226	-6.713	0.00	0.00	O
ATOM	3561	H1	WAT	2895	-12.623	17.550	-7.035	0.00	0.00	H
ATOM	3562	H2	WAT	2895	-13.763	17.901	-6.104	0.00	0.00	H
TER	3563		WAT	2895						
ATOM	3564	O	WAT	2914	-14.964	-0.070	-14.386	0.00	0.00	O
ATOM	3565	H1	WAT	2914	-15.217	-0.650	-15.104	0.00	0.00	H
ATOM	3566	H2	WAT	2914	-14.009	-0.038	-14.428	0.00	0.00	H
TER	3567		WAT	2914						
ATOM	3568	O	WAT	2925	8.149	-4.283	2.037	0.00	0.00	O
ATOM	3569	H1	WAT	2925	8.794	-4.084	2.715	0.00	0.00	H
ATOM	3570	H2	WAT	2925	7.377	-3.772	2.285	0.00	0.00	H
TER	3571		WAT	2925						
ATOM	3572	O	WAT	2934	13.244	8.106	8.723	0.00	0.00	O
ATOM	3573	H1	WAT	2934	14.167	8.186	8.966	0.00	0.00	H
ATOM	3574	H2	WAT	2934	12.997	7.224	9.000	0.00	0.00	H
TER	3575		WAT	2934						
ATOM	3576	O	WAT	2989	11.658	-9.048	4.700	0.00	0.00	O
ATOM	3577	H1	WAT	2989	12.097	-9.801	4.303	0.00	0.00	H
ATOM	3578	H2	WAT	2989	11.002	-8.785	4.055	0.00	0.00	H
TER	3579		WAT	2989						
ATOM	3580	O	WAT	3000	6.564	0.027	21.693	0.00	0.00	O
ATOM	3581	H1	WAT	3000	6.901	-0.223	20.832	0.00	0.00	H
ATOM	3582	H2	WAT	3000	5.615	-0.064	21.613	0.00	0.00	H
TER	3583		WAT	3000						
ATOM	3584	O	WAT	3029	17.975	2.070	-1.629	0.00	0.00	O
ATOM	3585	H1	WAT	3029	17.901	1.130	-1.792	0.00	0.00	H
ATOM	3586	H2	WAT	3029	17.777	2.475	-2.473	0.00	0.00	H
ATOM	3587	O	WAT	3030	16.278	-13.478	-6.732	0.00	0.00	O
ATOM	3588	H1	WAT	3030	15.555	-13.889	-6.259	0.00	0.00	H
ATOM	3589	H2	WAT	3030	17.011	-14.083	-6.623	0.00	0.00	H
TER	3590		WAT	3030						
ATOM	3591	O	WAT	3035	13.518	-17.700	5.039	0.00	0.00	O
ATOM	3592	H1	WAT	3035	14.032	-17.023	5.481	0.00	0.00	H
ATOM	3593	H2	WAT	3035	12.769	-17.232	4.672	0.00	0.00	H
TER	3594		WAT	3035						
ATOM	3595	O	WAT	3047	18.183	-21.755	6.090	0.00	0.00	O
ATOM	3596	H1	WAT	3047	17.785	-22.622	6.015	0.00	0.00	H
ATOM	3597	H2	WAT	3047	17.881	-21.284	5.313	0.00	0.00	H
TER	3598		WAT	3047						
ATOM	3599	O	WAT	3059	-4.303	18.442	0.851	0.00	0.00	O
ATOM	3600	H1	WAT	3059	-4.030	19.291	1.199	0.00	0.00	H
ATOM	3601	H2	WAT	3059	-3.859	17.801	1.405	0.00	0.00	H
TER	3602		WAT	3059						
ATOM	3603	O	WAT	3063	10.127	5.976	7.833	0.00	0.00	O
ATOM	3604	H1	WAT	3063	10.084	5.153	7.347	0.00	0.00	H
ATOM	3605	H2	WAT	3063	10.993	5.969	8.237	0.00	0.00	H
TER	3606		WAT	3063						
ATOM	3607	O	WAT	3107	-0.643	3.617	20.793	0.00	0.00	O
ATOM	3608	H1	WAT	3107	-1.187	3.018	20.280	0.00	0.00	H
ATOM	3609	H2	WAT	3107	-0.264	3.069	21.479	0.00	0.00	H
TER	3610		WAT	3107						
ATOM	3611	O	WAT	3150	8.941	-6.965	-10.318	0.00	0.00	O
ATOM	3612	H1	WAT	3150	8.520	-6.115	-10.446	0.00	0.00	H
ATOM	3613	H2	WAT	3150	9.273	-7.200	-11.185	0.00	0.00	H
TER	3614		WAT	3150						
ATOM	3615	O	WAT	3189	-4.618	-8.123	-9.540	0.00	0.00	O
ATOM	3616	H1	WAT	3189	-4.332	-7.341	-10.014	0.00	0.00	H
ATOM	3617	H2	WAT	3189	-5.547	-7.968	-9.364	0.00	0.00	H
TER	3618		WAT	3189						
ATOM	3619	O	WAT	3191	13.938	-3.739	-5.578	0.00	0.00	O
ATOM	3620	H1	WAT	3191	13.793	-3.645	-6.519	0.00	0.00	H
ATOM	3621	H2	WAT	3191	14.385	-4.580	-5.487	0.00	0.00	H
TER	3622		WAT	3191						
ATOM	3623	O	WAT	3227	-13.342	-3.632	18.360	0.00	0.00	O
ATOM	3624	H1	WAT	3227	-12.651	-3.536	17.704	0.00	0.00	H
ATOM	3625	H2	WAT	3227	-13.710	-2.754	18.451	0.00	0.00	H
TER	3626		WAT	3227						
ATOM	3627	O	WAT	3247	-15.966	1.206	-19.119	0.00	0.00	O
ATOM	3628	H1	WAT	3247	-15.924	2.159	-19.032	0.00	0.00	H
ATOM	3629	H2	WAT	3247	-15.253	0.988	-19.720	0.00	0.00	H
TER	3630		WAT	3247						
ATOM	3631	O	WAT	3251	-12.450	5.283	8.054	0.00	0.00	O
ATOM	3632	H1	WAT	3251	-13.044	5.137	8.791	0.00	0.00	H
ATOM	3633	H2	WAT	3251	-11.579	5.096	8.406	0.00	0.00	H
TER	3634		WAT	3251						
ATOM	3635	O	WAT	3262	8.595	-0.728	2.420	0.00	0.00	O
ATOM	3636	H1	WAT	3262	9.292	-0.182	2.054	0.00	0.00	H
ATOM	3637	H2	WAT	3262	8.409	-0.337	3.275	0.00	0.00	H
TER	3638		WAT	3262						
ATOM	3639	O	WAT	3282	14.871	-24.414	-0.584	0.00	0.00	O
ATOM	3640	H1	WAT	3282	14.919	-24.263	-1.528	0.00	0.00	H
ATOM	3641	H2	WAT	3282	15.376	-25.214	-0.443	0.00	0.00	H
TER	3642		WAT	3282						
ATOM	3643	O	WAT	3324	-0.225	13.383	24.676	0.00	0.00	O
ATOM	3644	H1	WAT	3324	-0.536	14.060	25.277	0.00	0.00	H
ATOM	3645	H2	WAT	3324	-0.691	13.556	23.858	0.00	0.00	H
TER	3646		WAT	3324						
ATOM	3647	O	WAT	3335	-8.413	-13.906	0.263	0.00	0.00	O
ATOM	3648	H1	WAT	3335	-8.066	-13.791	1.149	0.00	0.00	H

ATOM	3649	H2	WAT	3335	-7.910	-14.635	-0.098	0.00	0.00	H
TER	3650		WAT	3335						
ATOM	3651	0	WAT	3364	5.751	15.964	5.448	0.00	0.00	O
ATOM	3652	H1	WAT	3364	6.048	15.594	4.616	0.00	0.00	H
ATOM	3653	H2	WAT	3364	6.372	16.668	5.631	0.00	0.00	H
TER	3654		WAT	3364						
ATOM	3655	0	WAT	3368	16.865	7.322	1.549	0.00	0.00	O
ATOM	3656	H1	WAT	3368	17.477	8.056	1.479	0.00	0.00	H
ATOM	3657	H2	WAT	3368	16.366	7.347	0.732	0.00	0.00	H
TER	3658		WAT	3368						
ATOM	3659	0	WAT	3392	0.246	-21.783	8.007	0.00	0.00	O
ATOM	3660	H1	WAT	3392	-0.314	-21.783	7.231	0.00	0.00	H
ATOM	3661	H2	WAT	3392	-0.103	-21.078	8.553	0.00	0.00	H
TER	3662		WAT	3392						
ATOM	3663	0	WAT	3440	-1.125	23.236	1.933	0.00	0.00	O
ATOM	3664	H1	WAT	3440	-0.685	22.399	1.780	0.00	0.00	H
ATOM	3665	H2	WAT	3440	-1.718	23.065	2.665	0.00	0.00	H
TER	3666		WAT	3440						
ATOM	3667	0	WAT	3444	-17.589	5.603	-17.237	0.00	0.00	O
ATOM	3668	H1	WAT	3444	-18.407	5.333	-16.817	0.00	0.00	H
ATOM	3669	H2	WAT	3444	-16.901	5.229	-16.685	0.00	0.00	H
TER	3670		WAT	3444						
ATOM	3671	0	WAT	3446	-6.829	-13.094	16.834	0.00	0.00	O
ATOM	3672	H1	WAT	3446	-6.589	-13.430	15.970	0.00	0.00	H
ATOM	3673	H2	WAT	3446	-7.224	-13.845	17.281	0.00	0.00	H
TER	3674		WAT	3446						
ATOM	3675	0	WAT	3473	-11.251	-6.755	-11.781	0.00	0.00	O
ATOM	3676	H1	WAT	3473	-10.601	-6.764	-11.077	0.00	0.00	H
ATOM	3677	H2	WAT	3473	-11.941	-7.345	-11.476	0.00	0.00	H
TER	3678		WAT	3473						
ATOM	3679	0	WAT	3504	12.872	-12.185	-6.307	0.00	0.00	O
ATOM	3680	H1	WAT	3504	13.609	-12.258	-6.914	0.00	0.00	H
ATOM	3681	H2	WAT	3504	13.092	-12.782	-5.590	0.00	0.00	H
TER	3682		WAT	3504						
ATOM	3683	0	WAT	3575	13.957	-4.776	12.065	0.00	0.00	O
ATOM	3684	H1	WAT	3575	13.022	-4.822	12.263	0.00	0.00	H
ATOM	3685	H2	WAT	3575	14.195	-5.671	11.827	0.00	0.00	H
TER	3686		WAT	3575						
ATOM	3687	0	WAT	3612	-3.896	-6.773	-11.833	0.00	0.00	O
ATOM	3688	H1	WAT	3612	-4.389	-6.231	-12.448	0.00	0.00	H
ATOM	3689	H2	WAT	3612	-3.402	-7.376	-12.388	0.00	0.00	H
TER	3690		WAT	3612						
ATOM	3691	0	WAT	3626	-13.719	-4.501	4.685	0.00	0.00	O
ATOM	3692	H1	WAT	3626	-14.205	-5.295	4.911	0.00	0.00	H
ATOM	3693	H2	WAT	3626	-12.830	-4.669	4.995	0.00	0.00	H
ATOM	3694	0	WAT	3627	-5.643	21.492	7.719	0.00	0.00	O
ATOM	3695	H1	WAT	3627	-6.077	21.790	8.517	0.00	0.00	H
ATOM	3696	H2	WAT	3627	-5.400	20.583	7.900	0.00	0.00	H
TER	3697		WAT	3627						
ATOM	3698	0	WAT	3673	4.961	14.601	-8.091	0.00	0.00	O
ATOM	3699	H1	WAT	3673	5.305	13.799	-7.698	0.00	0.00	H
ATOM	3700	H2	WAT	3673	5.596	14.828	-8.769	0.00	0.00	H
TER	3701		WAT	3673						
ATOM	3702	0	WAT	3698	-10.881	-20.246	2.856	0.00	0.00	O
ATOM	3703	H1	WAT	3698	-11.495	-20.074	3.570	0.00	0.00	H
ATOM	3704	H2	WAT	3698	-10.024	-20.015	3.216	0.00	0.00	H
TER	3705		WAT	3698						
ATOM	3706	0	WAT	3711	-11.477	-11.307	3.793	0.00	0.00	O
ATOM	3707	H1	WAT	3711	-12.210	-11.809	3.438	0.00	0.00	H
ATOM	3708	H2	WAT	3711	-10.777	-11.950	3.906	0.00	0.00	H
TER	3709		WAT	3711						
ATOM	3710	0	WAT	3746	8.835	-11.344	-7.098	0.00	0.00	O
ATOM	3711	H1	WAT	3746	9.099	-10.829	-7.860	0.00	0.00	H
ATOM	3712	H2	WAT	3746	8.403	-10.715	-6.520	0.00	0.00	H
TER	3713		WAT	3746						
ATOM	3714	0	WAT	3762	-16.228	-3.126	-14.837	0.00	0.00	O
ATOM	3715	H1	WAT	3762	-16.542	-3.660	-14.106	0.00	0.00	H
ATOM	3716	H2	WAT	3762	-17.025	-2.823	-15.271	0.00	0.00	H
TER	3717		WAT	3762						
ATOM	3718	0	WAT	3778	14.429	2.658	12.637	0.00	0.00	O
ATOM	3719	H1	WAT	3778	14.298	1.812	12.211	0.00	0.00	H
ATOM	3720	H2	WAT	3778	13.757	2.692	13.318	0.00	0.00	H
TER	3721		WAT	3778						
ATOM	3722	0	WAT	3797	-6.728	-13.837	2.610	0.00	0.00	O
ATOM	3723	H1	WAT	3797	-6.558	-14.761	2.430	0.00	0.00	H
ATOM	3724	H2	WAT	3797	-6.472	-13.720	3.524	0.00	0.00	H
TER	3725		WAT	3797						
ATOM	3726	0	WAT	3838	2.576	2.673	21.488	0.00	0.00	O
ATOM	3727	H1	WAT	3838	2.126	2.134	22.136	0.00	0.00	H
ATOM	3728	H2	WAT	3838	3.147	3.243	22.003	0.00	0.00	H
TER	3729		WAT	3838						
ATOM	3730	0	WAT	3843	17.080	9.537	6.852	0.00	0.00	O
ATOM	3731	H1	WAT	3843	17.507	9.445	7.704	0.00	0.00	H
ATOM	3732	H2	WAT	3843	17.163	10.468	6.642	0.00	0.00	H
TER	3733		WAT	3843						
ATOM	3734	0	WAT	3878	-15.138	11.661	-10.607	0.00	0.00	O
ATOM	3735	H1	WAT	3878	-14.517	11.045	-10.998	0.00	0.00	H
ATOM	3736	H2	WAT	3878	-15.246	11.352	-9.707	0.00	0.00	H
TER	3737		WAT	3878						
ATOM	3738	0	WAT	3882	8.961	-18.267	4.319	0.00	0.00	O
ATOM	3739	H1	WAT	3882	8.737	-19.191	4.419	0.00	0.00	H
ATOM	3740	H2	WAT	3882	8.329	-17.933	3.682	0.00	0.00	H
TER	3741		WAT	3882						
ATOM	3742	0	WAT	3888	7.686	4.698	8.754	0.00	0.00	O
ATOM	3743	H1	WAT	3888	7.834	3.996	8.120	0.00	0.00	H
ATOM	3744	H2	WAT	3888	8.290	5.391	8.491	0.00	0.00	H
TER	3745		WAT	3888						
ATOM	3746	0	WAT	3890	-4.634	-18.480	-6.740	0.00	0.00	O
ATOM	3747	H1	WAT	3890	-4.990	-17.813	-7.328	0.00	0.00	H
ATOM	3748	H2	WAT	3890	-5.009	-18.271	-5.885	0.00	0.00	H
TER	3749		WAT	3890						
ATOM	3750	0	WAT	3932	9.471	3.289	6.814	0.00	0.00	O
ATOM	3751	H1	WAT	3932	9.926	2.566	7.246	0.00	0.00	H
ATOM	3752	H2	WAT	3932	9.167	2.920	5.984	0.00	0.00	H
ATOM	3753	0	WAT	3933	7.715	-3.605	8.560	0.00	0.00	O

ATOM	3754	H1	WAT	3933	8.177	-3.134	9.254	0.00	0.00	H
ATOM	3755	H2	WAT	3933	8.357	-3.685	7.856	0.00	0.00	H
TER	3756		WAT	3933						
ATOM	3757	O	WAT	3956	-6.096	21.594	3.822	0.00	0.00	O
ATOM	3758	H1	WAT	3956	-6.838	21.025	3.617	0.00	0.00	H
ATOM	3759	H2	WAT	3956	-5.491	21.035	4.307	0.00	0.00	H
TER	3760		WAT	3956						
ATOM	3761	O	WAT	3973	8.501	17.756	4.118	0.00	0.00	O
ATOM	3762	H1	WAT	3973	8.813	18.347	3.433	0.00	0.00	H
ATOM	3763	H2	WAT	3973	7.849	17.207	3.684	0.00	0.00	H
TER	3764		WAT	3973						
ATOM	3765	O	WAT	3984	10.530	-24.514	-1.671	0.00	0.00	O
ATOM	3766	H1	WAT	3984	10.815	-23.673	-2.033	0.00	0.00	H
ATOM	3767	H2	WAT	3984	10.575	-24.395	-0.724	0.00	0.00	H
TER	3768		WAT	3984						
ATOM	3769	O	WAT	4056	-0.130	16.396	22.772	0.00	0.00	O
ATOM	3770	H1	WAT	4056	-0.782	15.703	22.877	0.00	0.00	H
ATOM	3771	H2	WAT	4056	0.640	16.073	23.238	0.00	0.00	H
TER	3772		WAT	4056						
ATOM	3773	O	WAT	4068	-9.019	-16.004	14.280	0.00	0.00	O
ATOM	3774	H1	WAT	4068	-8.573	-16.024	13.433	0.00	0.00	H
ATOM	3775	H2	WAT	4068	-9.787	-15.453	14.135	0.00	0.00	H
TER	3776		WAT	4068						
ATOM	3777	O	WAT	4072	-2.313	0.930	-19.445	0.00	0.00	O
ATOM	3778	H1	WAT	4072	-2.549	0.058	-19.128	0.00	0.00	H
ATOM	3779	H2	WAT	4072	-2.691	1.531	-18.803	0.00	0.00	H
TER	3780		WAT	4072						
ATOM	3781	O	WAT	4099	-18.940	-0.508	-5.690	0.00	0.00	O
ATOM	3782	H1	WAT	4099	-19.784	-0.505	-5.236	0.00	0.00	H
ATOM	3783	H2	WAT	4099	-18.677	0.413	-5.710	0.00	0.00	H
TER	3784		WAT	4099						
ATOM	3785	O	WAT	4115	14.918	-1.487	-8.954	0.00	0.00	O
ATOM	3786	H1	WAT	4115	14.509	-2.340	-9.100	0.00	0.00	H
ATOM	3787	H2	WAT	4115	15.153	-1.490	-8.026	0.00	0.00	H
TER	3788		WAT	4115						
ATOM	3789	O	WAT	4156	-5.372	12.988	5.601	0.00	0.00	O
ATOM	3790	H1	WAT	4156	-6.125	13.257	5.074	0.00	0.00	H
ATOM	3791	H2	WAT	4156	-5.322	12.040	5.479	0.00	0.00	H
TER	3792		WAT	4156						
ATOM	3793	O	WAT	4188	8.891	1.650	4.084	0.00	0.00	O
ATOM	3794	H1	WAT	4188	9.667	1.400	3.581	0.00	0.00	H
ATOM	3795	H2	WAT	4188	8.528	2.399	3.609	0.00	0.00	H
TER	3796		WAT	4188						
ATOM	3797	O	WAT	4211	2.406	-0.039	-19.427	0.00	0.00	O
ATOM	3798	H1	WAT	4211	2.553	-0.983	-19.363	0.00	0.00	H
ATOM	3799	H2	WAT	4211	2.046	0.088	-20.305	0.00	0.00	H
TER	3800		WAT	4211						
ATOM	3801	O	WAT	4213	6.352	-2.399	2.852	0.00	0.00	O
ATOM	3802	H1	WAT	4213	5.681	-1.724	2.957	0.00	0.00	H
ATOM	3803	H2	WAT	4213	7.157	-1.913	2.673	0.00	0.00	H
TER	3804		WAT	4213						
ATOM	3805	O	WAT	4222	18.349	-14.747	4.205	0.00	0.00	O
ATOM	3806	H1	WAT	4222	17.726	-15.048	3.544	0.00	0.00	H
ATOM	3807	H2	WAT	4222	19.074	-15.369	4.151	0.00	0.00	H
TER	3808		WAT	4222						
ATOM	3809	O	WAT	4384	-3.044	-9.074	-21.630	0.00	0.00	O
ATOM	3810	H1	WAT	4384	-2.640	-8.812	-20.803	0.00	0.00	H
ATOM	3811	H2	WAT	4384	-3.813	-9.583	-21.372	0.00	0.00	H
TER	3812		WAT	4384						
ATOM	3813	O	WAT	4399	-0.563	22.020	9.075	0.00	0.00	O
ATOM	3814	H1	WAT	4399	-0.860	21.649	8.244	0.00	0.00	H
ATOM	3815	H2	WAT	4399	-0.422	21.259	9.639	0.00	0.00	H
TER	3816		WAT	4399						
ATOM	3817	O	WAT	4420	-7.311	19.313	8.194	0.00	0.00	O
ATOM	3818	H1	WAT	4420	-6.404	19.084	7.990	0.00	0.00	H
ATOM	3819	H2	WAT	4420	-7.740	18.473	8.354	0.00	0.00	H
TER	3820		WAT	4420						
ATOM	3821	O	WAT	4504	14.081	-9.540	-5.848	0.00	0.00	O
ATOM	3822	H1	WAT	4504	14.058	-10.292	-5.260	0.00	0.00	H
ATOM	3823	H2	WAT	4504	13.210	-9.518	-6.244	0.00	0.00	H
TER	3824		WAT	4504						
ATOM	3825	O	WAT	4508	3.075	-18.395	5.015	0.00	0.00	O
ATOM	3826	H1	WAT	4508	2.873	-19.326	4.931	0.00	0.00	H
ATOM	3827	H2	WAT	4508	4.015	-18.336	4.839	0.00	0.00	H
TER	3828		WAT	4508						
ATOM	3829	O	WAT	4534	-11.631	-0.770	16.709	0.00	0.00	O
ATOM	3830	H1	WAT	4534	-12.521	-0.659	16.377	0.00	0.00	H
ATOM	3831	H2	WAT	4534	-11.324	0.123	16.874	0.00	0.00	H
TER	3832		WAT	4534						
ATOM	3833	O	WAT	4563	8.239	-2.986	-0.359	0.00	0.00	O
ATOM	3834	H1	WAT	4563	9.132	-3.191	-0.632	0.00	0.00	H
ATOM	3835	H2	WAT	4563	8.150	-3.401	0.499	0.00	0.00	H
TER	3836		WAT	4563						
ATOM	3837	O	WAT	4596	-6.689	-21.731	-1.439	0.00	0.00	O
ATOM	3838	H1	WAT	4596	-7.052	-22.266	-0.733	0.00	0.00	H
ATOM	3839	H2	WAT	4596	-6.042	-21.173	-1.007	0.00	0.00	H
TER	3840		WAT	4596						
ATOM	3841	O	WAT	4602	-11.747	-6.471	18.184	0.00	0.00	O
ATOM	3842	H1	WAT	4602	-11.166	-5.715	18.258	0.00	0.00	H
ATOM	3843	H2	WAT	4602	-11.809	-6.635	17.243	0.00	0.00	H
TER	3844		WAT	4602						
ATOM	3845	O	WAT	4620	8.087	10.460	-7.880	0.00	0.00	O
ATOM	3846	H1	WAT	4620	7.832	9.717	-7.334	0.00	0.00	H
ATOM	3847	H2	WAT	4620	8.526	11.061	-7.278	0.00	0.00	H
TER	3848		WAT	4620						
ATOM	3849	O	WAT	4628	10.580	-4.456	17.482	0.00	0.00	O
ATOM	3850	H1	WAT	4628	9.830	-4.106	17.964	0.00	0.00	H
ATOM	3851	H2	WAT	4628	10.872	-5.204	18.004	0.00	0.00	H
TER	3852		WAT	4628						
ATOM	3853	O	WAT	4723	9.695	-1.222	21.081	0.00	0.00	O
ATOM	3854	H1	WAT	4723	10.119	-1.615	20.318	0.00	0.00	H
ATOM	3855	H2	WAT	4723	8.891	-0.836	20.732	0.00	0.00	H
TER	3856		WAT	4723						
ATOM	3857	O	WAT	4732	-8.047	-6.324	-16.247	0.00	0.00	O
ATOM	3858	H1	WAT	4732	-7.968	-7.083	-15.670	0.00	0.00	H

ATOM	3859	H2	WAT	4732	-8.859	-5.898	-15.971	0.00	0.00	H
TER	3860		WAT	4732						
ATOM	3861	O	WAT	4735	20.507	-22.707	1.397	0.00	0.00	O
ATOM	3862	H1	WAT	4735	19.691	-22.440	1.820	0.00	0.00	H
ATOM	3863	H2	WAT	4735	20.448	-22.346	0.513	0.00	0.00	H
TER	3864		WAT	4735						
ATOM	3865	O	WAT	4749	2.179	-13.790	6.688	0.00	0.00	O
ATOM	3866	H1	WAT	4749	1.957	-14.283	5.899	0.00	0.00	H
ATOM	3867	H2	WAT	4749	2.950	-14.233	7.040	0.00	0.00	H
TER	3868		WAT	4749						
ATOM	3869	O	WAT	4834	-11.946	10.671	-14.859	0.00	0.00	O
ATOM	3870	H1	WAT	4834	-11.703	10.663	-15.786	0.00	0.00	H
ATOM	3871	H2	WAT	4834	-12.730	10.125	-14.815	0.00	0.00	H
TER	3872		WAT	4834						
ATOM	3873	O	WAT	4856	-2.740	12.186	-17.634	0.00	0.00	O
ATOM	3874	H1	WAT	4856	-2.258	13.014	-17.619	0.00	0.00	H
ATOM	3875	H2	WAT	4856	-2.525	11.768	-16.802	0.00	0.00	H
TER	3876		WAT	4856						
ATOM	3877	O	WAT	4869	-12.757	1.365	-3.235	0.00	0.00	O
ATOM	3878	H1	WAT	4869	-13.574	1.485	-2.752	0.00	0.00	H
ATOM	3879	H2	WAT	4869	-12.310	2.209	-3.165	0.00	0.00	H
TER	3880		WAT	4869						
ATOM	3881	O	WAT	4873	-5.916	11.794	19.070	0.00	0.00	O
ATOM	3882	H1	WAT	4873	-6.430	11.312	18.422	0.00	0.00	H
ATOM	3883	H2	WAT	4873	-5.045	11.868	18.679	0.00	0.00	H
TER	3884		WAT	4873						
ATOM	3885	O	WAT	4898	4.247	14.743	18.775	0.00	0.00	O
ATOM	3886	H1	WAT	4898	3.429	14.339	19.065	0.00	0.00	H
ATOM	3887	H2	WAT	4898	4.816	14.004	18.558	0.00	0.00	H
TER	3888		WAT	4898						
ATOM	3889	O	WAT	4909	-11.832	2.722	4.698	0.00	0.00	O
ATOM	3890	H1	WAT	4909	-12.289	2.154	5.316	0.00	0.00	H
ATOM	3891	H2	WAT	4909	-11.126	2.178	4.348	0.00	0.00	H
TER	3892		WAT	4909						
ATOM	3893	O	WAT	4936	21.484	1.111	0.706	0.00	0.00	O
ATOM	3894	H1	WAT	4936	22.087	1.847	0.602	0.00	0.00	H
ATOM	3895	H2	WAT	4936	20.624	1.520	0.812	0.00	0.00	H
TER	3896		WAT	4936						
ATOM	3897	O	WAT	4947	-6.646	-9.611	-16.811	0.00	0.00	O
ATOM	3898	H1	WAT	4947	-7.265	-9.212	-16.198	0.00	0.00	H
ATOM	3899	H2	WAT	4947	-7.198	-9.977	-17.503	0.00	0.00	H
TER	3900		WAT	4947						
ATOM	3901	O	WAT	4983	15.317	-19.832	5.697	0.00	0.00	O
ATOM	3902	H1	WAT	4983	16.021	-19.998	5.071	0.00	0.00	H
ATOM	3903	H2	WAT	4983	14.845	-19.082	5.335	0.00	0.00	H
TER	3904		WAT	4983						
ATOM	3905	O	WAT	5007	16.245	-13.982	-2.846	0.00	0.00	O
ATOM	3906	H1	WAT	5007	15.731	-13.796	-3.631	0.00	0.00	H
ATOM	3907	H2	WAT	5007	15.594	-14.164	-2.169	0.00	0.00	H
TER	3908		WAT	5007						
ATOM	3909	O	WAT	5050	13.573	11.941	-12.416	0.00	0.00	O
ATOM	3910	H1	WAT	5050	12.716	12.145	-12.790	0.00	0.00	H
ATOM	3911	H2	WAT	5050	14.096	11.645	-13.162	0.00	0.00	H
TER	3912		WAT	5050						
ATOM	3913	O	WAT	5074	11.721	9.810	-14.372	0.00	0.00	O
ATOM	3914	H1	WAT	5074	11.285	10.653	-14.495	0.00	0.00	H
ATOM	3915	H2	WAT	5074	11.877	9.757	-13.428	0.00	0.00	H
TER	3916		WAT	5074						
ATOM	3917	O	WAT	5102	6.106	8.672	-11.038	0.00	0.00	O
ATOM	3918	H1	WAT	5102	6.552	8.016	-11.573	0.00	0.00	H
ATOM	3919	H2	WAT	5102	5.658	9.233	-11.673	0.00	0.00	H
TER	3920		WAT	5102						
ATOM	3921	O	WAT	5112	-8.180	12.985	12.432	0.00	0.00	O
ATOM	3922	H1	WAT	5112	-9.103	13.238	12.383	0.00	0.00	H
ATOM	3923	H2	WAT	5112	-8.122	12.183	11.915	0.00	0.00	H
TER	3924		WAT	5112						
ATOM	3925	O	WAT	5172	-0.164	-10.817	-10.753	0.00	0.00	O
ATOM	3926	H1	WAT	5172	0.175	-10.135	-11.334	0.00	0.00	H
ATOM	3927	H2	WAT	5172	-0.959	-10.439	-10.378	0.00	0.00	H
TER	3928		WAT	5172						
ATOM	3929	O	WAT	5176	12.395	-6.389	5.181	0.00	0.00	O
ATOM	3930	H1	WAT	5176	12.046	-6.032	5.998	0.00	0.00	H
ATOM	3931	H2	WAT	5176	11.936	-7.220	5.068	0.00	0.00	H
TER	3932		WAT	5176						
ATOM	3933	O	WAT	5179	-2.269	-15.299	-9.311	0.00	0.00	O
ATOM	3934	H1	WAT	5179	-1.670	-16.045	-9.269	0.00	0.00	H
ATOM	3935	H2	WAT	5179	-1.717	-14.539	-9.124	0.00	0.00	H
TER	3936		WAT	5179						
ATOM	3937	O	WAT	5185	7.719	-9.689	-13.449	0.00	0.00	O
ATOM	3938	H1	WAT	5185	7.835	-8.761	-13.656	0.00	0.00	H
ATOM	3939	H2	WAT	5185	8.060	-10.149	-14.216	0.00	0.00	H
TER	3940		WAT	5185						
ATOM	3941	O	WAT	5189	19.298	-21.038	-0.639	0.00	0.00	O
ATOM	3942	H1	WAT	5189	19.099	-20.790	-1.542	0.00	0.00	H
ATOM	3943	H2	WAT	5189	19.112	-20.250	-0.127	0.00	0.00	H
TER	3944		WAT	5189						
ATOM	3945	O	WAT	5215	-0.363	15.137	-14.742	0.00	0.00	O
ATOM	3946	H1	WAT	5215	0.405	15.590	-14.393	0.00	0.00	H
ATOM	3947	H2	WAT	5215	-0.803	14.781	-13.970	0.00	0.00	H
TER	3948		WAT	5215						
ATOM	3949	O	WAT	5242	-17.737	-4.425	-12.230	0.00	0.00	O
ATOM	3950	H1	WAT	5242	-18.312	-3.738	-12.569	0.00	0.00	H
ATOM	3951	H2	WAT	5242	-17.053	-3.951	-11.756	0.00	0.00	H
TER	3952		WAT	5242						
ATOM	3953	O	WAT	5322	9.545	16.070	-2.256	0.00	0.00	O
ATOM	3954	H1	WAT	5322	10.136	16.511	-1.647	0.00	0.00	H
ATOM	3955	H2	WAT	5322	9.786	15.146	-2.199	0.00	0.00	H
TER	3956		WAT	5322						
ATOM	3957	O	WAT	5333	12.406	-5.979	15.741	0.00	0.00	O
ATOM	3958	H1	WAT	5333	11.840	-5.403	15.227	0.00	0.00	H
ATOM	3959	H2	WAT	5333	11.805	-6.590	16.165	0.00	0.00	H
TER	3960		WAT	5333						
ATOM	3961	O	WAT	5369	7.347	10.111	20.173	0.00	0.00	O
ATOM	3962	H1	WAT	5369	6.851	10.376	19.398	0.00	0.00	H
ATOM	3963	H2	WAT	5369	6.736	10.231	20.899	0.00	0.00	H

ATOM	4069	H1	WAT	5804	8.882	9.933	-13.418	0.00	0.00	H
ATOM	4070	H2	WAT	5804	8.399	9.330	-14.721	0.00	0.00	H
TER	4071		WAT	5804						
ATOM	4072	O	WAT	5851	17.802	6.160	-8.286	0.00	0.00	O
ATOM	4073	H1	WAT	5851	17.561	5.644	-9.056	0.00	0.00	H
ATOM	4074	H2	WAT	5851	18.391	5.591	-7.792	0.00	0.00	H
TER	4075		WAT	5851						
ATOM	4076	O	WAT	5891	4.934	-8.914	10.895	0.00	0.00	O
ATOM	4077	H1	WAT	5891	4.406	-9.713	10.900	0.00	0.00	H
ATOM	4078	H2	WAT	5891	5.820	-9.209	11.097	0.00	0.00	H
TER	4079		WAT	5891						
ATOM	4080	O	WAT	5893	17.952	-0.715	-2.955	0.00	0.00	O
ATOM	4081	H1	WAT	5893	17.675	-1.607	-2.741	0.00	0.00	H
ATOM	4082	H2	WAT	5893	17.902	-0.673	-3.911	0.00	0.00	H
TER	4083		WAT	5893						
ATOM	4084	O	WAT	5906	-4.548	-13.418	-16.549	0.00	0.00	O
ATOM	4085	H1	WAT	5906	-5.067	-14.090	-16.989	0.00	0.00	H
ATOM	4086	H2	WAT	5906	-3.738	-13.368	-17.057	0.00	0.00	H
TER	4087		WAT	5906						
ATOM	4088	O	WAT	5980	-12.436	-3.794	-6.450	0.00	0.00	O
ATOM	4089	H1	WAT	5980	-11.900	-4.300	-7.060	0.00	0.00	H
ATOM	4090	H2	WAT	5980	-11.990	-3.882	-5.608	0.00	0.00	H
TER	4091		WAT	5980						
ATOM	4092	O	WAT	5987	-3.809	-5.264	14.380	0.00	0.00	O
ATOM	4093	H1	WAT	5987	-4.730	-5.181	14.131	0.00	0.00	H
ATOM	4094	H2	WAT	5987	-3.732	-4.752	15.184	0.00	0.00	H
TER	4095		WAT	5987						
ATOM	4096	O	WAT	5990	0.522	-23.719	4.679	0.00	0.00	O
ATOM	4097	H1	WAT	5990	0.013	-22.930	4.870	0.00	0.00	H
ATOM	4098	H2	WAT	5990	1.322	-23.619	5.196	0.00	0.00	H
TER	4099		WAT	5990						
ATOM	4100	O	WAT	6000	-14.626	-6.813	1.473	0.00	0.00	O
ATOM	4101	H1	WAT	6000	-14.548	-6.773	2.426	0.00	0.00	H
ATOM	4102	H2	WAT	6000	-13.853	-7.301	1.190	0.00	0.00	H
TER	4103		WAT	6000						
ATOM	4104	O	WAT	6029	-5.941	-5.835	-13.725	0.00	0.00	O
ATOM	4105	H1	WAT	6029	-6.439	-5.029	-13.868	0.00	0.00	H
ATOM	4106	H2	WAT	6029	-6.575	-6.538	-13.873	0.00	0.00	H
TER	4107		WAT	6029						
ATOM	4108	O	WAT	6041	-13.069	5.148	5.199	0.00	0.00	O
ATOM	4109	H1	WAT	6041	-12.379	4.726	4.688	0.00	0.00	H
ATOM	4110	H2	WAT	6041	-12.794	5.037	6.110	0.00	0.00	H
TER	4111		WAT	6041						
ATOM	4112	O	WAT	6047	2.033	-12.892	-18.034	0.00	0.00	O
ATOM	4113	H1	WAT	6047	2.679	-13.388	-18.537	0.00	0.00	H
ATOM	4114	H2	WAT	6047	2.043	-13.294	-17.166	0.00	0.00	H
TER	4115		WAT	6047						
ATOM	4116	O	WAT	6057	-12.521	-9.146	12.614	0.00	0.00	O
ATOM	4117	H1	WAT	6057	-12.788	-8.364	13.099	0.00	0.00	H
ATOM	4118	H2	WAT	6057	-12.564	-8.882	11.695	0.00	0.00	H
TER	4119		WAT	6057						
ATOM	4120	O	WAT	6081	-7.989	-17.294	-6.007	0.00	0.00	O
ATOM	4121	H1	WAT	6081	-7.259	-17.207	-5.395	0.00	0.00	H
ATOM	4122	H2	WAT	6081	-8.573	-17.928	-5.593	0.00	0.00	H
TER	4123		WAT	6081						
ATOM	4124	O	WAT	6083	-2.631	22.888	4.082	0.00	0.00	O
ATOM	4125	H1	WAT	6083	-3.436	22.583	4.503	0.00	0.00	H
ATOM	4126	H2	WAT	6083	-2.600	23.824	4.274	0.00	0.00	H
TER	4127		WAT	6083						
ATOM	4128	O	WAT	6087	-17.900	9.180	-15.910	0.00	0.00	O
ATOM	4129	H1	WAT	6087	-17.931	8.640	-15.120	0.00	0.00	H
ATOM	4130	H2	WAT	6087	-17.988	8.555	-16.629	0.00	0.00	H
TER	4131		WAT	6087						
ATOM	4132	O	WAT	6101	-8.360	9.234	16.990	0.00	0.00	O
ATOM	4133	H1	WAT	6101	-7.486	9.601	16.850	0.00	0.00	H
ATOM	4134	H2	WAT	6101	-8.792	9.861	17.570	0.00	0.00	H
TER	4135		WAT	6101						
ATOM	4136	O	WAT	6103	15.928	-16.957	-6.748	0.00	0.00	O
ATOM	4137	H1	WAT	6103	16.398	-17.246	-5.965	0.00	0.00	H
ATOM	4138	H2	WAT	6103	15.080	-16.657	-6.418	0.00	0.00	H
TER	4139		WAT	6103						
ATOM	4140	O	WAT	6107	-6.751	-23.826	5.299	0.00	0.00	O
ATOM	4141	H1	WAT	6107	-6.857	-24.381	4.525	0.00	0.00	H
ATOM	4142	H2	WAT	6107	-7.217	-23.019	5.081	0.00	0.00	H
TER	4143		WAT	6107						
ATOM	4144	O	WAT	6123	-7.727	-13.878	-12.632	0.00	0.00	O
ATOM	4145	H1	WAT	6123	-7.067	-14.150	-13.269	0.00	0.00	H
ATOM	4146	H2	WAT	6123	-7.431	-13.019	-12.330	0.00	0.00	H
TER	4147		WAT	6123						
ATOM	4148	O	WAT	6199	16.539	2.755	1.253	0.00	0.00	O
ATOM	4149	H1	WAT	6199	16.248	2.250	2.013	0.00	0.00	H
ATOM	4150	H2	WAT	6199	15.758	2.836	0.705	0.00	0.00	H
TER	4151		WAT	6199						
ATOM	4152	O	WAT	6204	5.607	-18.256	4.641	0.00	0.00	O
ATOM	4153	H1	WAT	6204	6.140	-17.894	3.932	0.00	0.00	H
ATOM	4154	H2	WAT	6204	5.976	-17.875	5.437	0.00	0.00	H
TER	4155		WAT	6204						
ATOM	4156	O	WAT	6209	12.473	-18.189	2.108	0.00	0.00	O
ATOM	4157	H1	WAT	6209	12.084	-17.667	2.810	0.00	0.00	H
ATOM	4158	H2	WAT	6209	11.854	-18.115	1.383	0.00	0.00	H
TER	4159		WAT	6209						
ATOM	4160	O	WAT	6211	18.208	8.670	-7.441	0.00	0.00	O
ATOM	4161	H1	WAT	6211	18.160	7.764	-7.748	0.00	0.00	H
ATOM	4162	H2	WAT	6211	19.085	8.961	-7.691	0.00	0.00	H
TER	4163		WAT	6211						
ATOM	4164	O	WAT	6214	0.043	-4.990	17.315	0.00	0.00	O
ATOM	4165	H1	WAT	6214	0.817	-4.913	17.872	0.00	0.00	H
ATOM	4166	H2	WAT	6214	-0.539	-4.292	17.614	0.00	0.00	H
TER	4167		WAT	6214						
ATOM	4168	O	WAT	6222	9.916	-15.588	-5.732	0.00	0.00	O
ATOM	4169	H1	WAT	6222	9.987	-15.213	-4.855	0.00	0.00	H
ATOM	4170	H2	WAT	6222	9.871	-14.830	-6.315	0.00	0.00	H
TER	4171		WAT	6222						
ATOM	4172	O	WAT	6224	15.627	12.588	-7.646	0.00	0.00	O
ATOM	4173	H1	WAT	6224	14.934	12.630	-6.987	0.00	0.00	H

ATOM	4174	H2	WAT	6224	15.856	13.502	-7.812	0.00	0.00	H
TER	4175		WAT	6224						
ATOM	4176	O	WAT	6228	-10.228	-8.727	14.994	0.00	0.00	O
ATOM	4177	H1	WAT	6228	-10.874	-8.199	15.465	0.00	0.00	H
ATOM	4178	H2	WAT	6228	-10.748	-9.271	14.404	0.00	0.00	H
TER	4179		WAT	6228						
ATOM	4180	O	WAT	6235	12.853	-7.308	10.819	0.00	0.00	O
ATOM	4181	H1	WAT	6235	12.761	-7.323	11.771	0.00	0.00	H
ATOM	4182	H2	WAT	6235	13.132	-8.194	10.589	0.00	0.00	H
TER	4183		WAT	6235						
ATOM	4184	O	WAT	6250	-11.714	3.741	19.602	0.00	0.00	O
ATOM	4185	H1	WAT	6250	-10.959	3.590	19.034	0.00	0.00	H
ATOM	4186	H2	WAT	6250	-11.596	3.125	20.326	0.00	0.00	H
TER	4187		WAT	6250						
ATOM	4188	O	WAT	6287	2.082	-7.666	-16.966	0.00	0.00	O
ATOM	4189	H1	WAT	6287	1.433	-7.518	-16.279	0.00	0.00	H
ATOM	4190	H2	WAT	6287	1.603	-7.523	-17.782	0.00	0.00	H
TER	4191		WAT	6287						
ATOM	4192	O	WAT	6342	-5.077	5.881	19.458	0.00	0.00	O
ATOM	4193	H1	WAT	6342	-4.929	6.619	18.867	0.00	0.00	H
ATOM	4194	H2	WAT	6342	-4.256	5.388	19.435	0.00	0.00	H
TER	4195		WAT	6342						
ATOM	4196	O	WAT	6345	3.182	2.529	-19.375	0.00	0.00	O
ATOM	4197	H1	WAT	6345	3.207	1.598	-19.151	0.00	0.00	H
ATOM	4198	H2	WAT	6345	2.950	2.966	-18.556	0.00	0.00	H
TER	4199		WAT	6345						
ATOM	4200	O	WAT	6374	-9.146	-17.531	8.618	0.00	0.00	O
ATOM	4201	H1	WAT	6374	-9.764	-17.886	7.979	0.00	0.00	H
ATOM	4202	H2	WAT	6374	-8.288	-17.656	8.215	0.00	0.00	H
TER	4203		WAT	6374						
ATOM	4204	O	WAT	6387	-8.409	16.488	-7.660	0.00	0.00	O
ATOM	4205	H1	WAT	6387	-7.817	17.144	-7.293	0.00	0.00	H
ATOM	4206	H2	WAT	6387	-8.717	16.874	-8.478	0.00	0.00	H
TER	4207		WAT	6387						
ATOM	4208	O	WAT	6390	-1.639	18.125	10.048	0.00	0.00	O
ATOM	4209	H1	WAT	6390	-2.011	17.883	9.200	0.00	0.00	H
ATOM	4210	H2	WAT	6390	-2.344	17.963	10.674	0.00	0.00	H
TER	4211		WAT	6390						
ATOM	4212	O	WAT	6392	2.966	18.788	4.308	0.00	0.00	O
ATOM	4213	H1	WAT	6392	2.330	19.505	4.285	0.00	0.00	H
ATOM	4214	H2	WAT	6392	3.793	19.210	4.541	0.00	0.00	H
TER	4215		WAT	6392						
ATOM	4216	O	WAT	6422	3.527	18.652	10.501	0.00	0.00	O
ATOM	4217	H1	WAT	6422	3.538	17.836	10.999	0.00	0.00	H
ATOM	4218	H2	WAT	6422	3.548	19.340	11.165	0.00	0.00	H
TER	4219		WAT	6422						
ATOM	4220	O	WAT	6460	1.655	-3.563	-21.527	0.00	0.00	O
ATOM	4221	H1	WAT	6460	2.029	-3.226	-20.713	0.00	0.00	H
ATOM	4222	H2	WAT	6460	1.531	-2.786	-22.073	0.00	0.00	H
TER	4223		WAT	6460						
ATOM	4224	O	WAT	6470	-3.485	14.552	24.623	0.00	0.00	O
ATOM	4225	H1	WAT	6470	-2.902	14.434	25.373	0.00	0.00	H
ATOM	4226	H2	WAT	6470	-2.941	14.348	23.862	0.00	0.00	H
TER	4227		WAT	6470						
ATOM	4228	O	WAT	6481	14.281	-3.103	-12.885	0.00	0.00	O
ATOM	4229	H1	WAT	6481	13.910	-3.960	-12.672	0.00	0.00	H
ATOM	4230	H2	WAT	6481	15.204	-3.175	-12.639	0.00	0.00	H
TER	4231		WAT	6481						
ATOM	4232	O	WAT	6484	21.287	2.112	6.563	0.00	0.00	O
ATOM	4233	H1	WAT	6484	20.618	2.244	7.234	0.00	0.00	H
ATOM	4234	H2	WAT	6484	21.634	2.988	6.394	0.00	0.00	H
TER	4235		WAT	6484						
ATOM	4236	O	WAT	6538	13.215	-14.407	-8.143	0.00	0.00	O
ATOM	4237	H1	WAT	6538	12.308	-14.105	-8.109	0.00	0.00	H
ATOM	4238	H2	WAT	6538	13.329	-14.916	-7.340	0.00	0.00	H
TER	4239		WAT	6538						
ATOM	4240	O	WAT	6541	-9.788	18.700	-12.144	0.00	0.00	O
ATOM	4241	H1	WAT	6541	-9.420	18.028	-11.569	0.00	0.00	H
ATOM	4242	H2	WAT	6541	-9.997	18.235	-12.954	0.00	0.00	H
TER	4243		WAT	6541						
ATOM	4244	O	WAT	6573	13.679	14.476	-10.853	0.00	0.00	O
ATOM	4245	H1	WAT	6573	12.831	14.894	-10.711	0.00	0.00	H
ATOM	4246	H2	WAT	6573	13.493	13.750	-11.449	0.00	0.00	H
TER	4247		WAT	6573						
ATOM	4248	O	WAT	6600	7.207	16.127	-16.954	0.00	0.00	O
ATOM	4249	H1	WAT	6600	7.561	16.261	-17.833	0.00	0.00	H
ATOM	4250	H2	WAT	6600	6.258	16.172	-17.071	0.00	0.00	H
TER	4251		WAT	6600						
ATOM	4252	O	WAT	6616	-10.866	-23.371	4.370	0.00	0.00	O
ATOM	4253	H1	WAT	6616	-10.117	-22.805	4.556	0.00	0.00	H
ATOM	4254	H2	WAT	6616	-10.570	-24.248	4.612	0.00	0.00	H
TER	4255		WAT	6616						
ATOM	4256	O	WAT	6648	9.214	-4.626	-13.582	0.00	0.00	O
ATOM	4257	H1	WAT	6648	8.472	-4.068	-13.815	0.00	0.00	H
ATOM	4258	H2	WAT	6648	9.330	-4.491	-12.641	0.00	0.00	H
TER	4259		WAT	6648						
ATOM	4260	O	WAT	6686	-8.226	-11.065	-10.655	0.00	0.00	O
ATOM	4261	H1	WAT	6686	-8.667	-10.373	-10.162	0.00	0.00	H
ATOM	4262	H2	WAT	6686	-8.300	-11.840	-10.099	0.00	0.00	H
TER	4263		WAT	6686						
ATOM	4264	O	WAT	6695	-1.923	-15.223	-3.393	0.00	0.00	O
ATOM	4265	H1	WAT	6695	-2.293	-15.458	-4.245	0.00	0.00	H
ATOM	4266	H2	WAT	6695	-2.684	-15.040	-2.843	0.00	0.00	H
ATOM	4267	O	WAT	6696	12.831	4.818	-0.983	0.00	0.00	O
ATOM	4268	H1	WAT	6696	13.449	4.479	-1.629	0.00	0.00	H
ATOM	4269	H2	WAT	6696	12.939	4.246	-0.223	0.00	0.00	H
TER	4270		WAT	6696						
ATOM	4271	O	WAT	6735	-10.479	-15.719	-5.542	0.00	0.00	O
ATOM	4272	H1	WAT	6735	-9.822	-16.226	-6.019	0.00	0.00	H
ATOM	4273	H2	WAT	6735	-10.128	-15.645	-4.654	0.00	0.00	H
TER	4274		WAT	6735						
ATOM	4275	O	WAT	6753	21.180	-21.274	4.176	0.00	0.00	O
ATOM	4276	H1	WAT	6753	21.078	-22.179	4.470	0.00	0.00	H
ATOM	4277	H2	WAT	6753	20.332	-21.047	3.796	0.00	0.00	H
TER	4278		WAT	6753						

ATOM	4279	O	WAT	6762	-6.611	16.634	-14.750	0.00	0.00	O
ATOM	4280	H1	WAT	6762	-5.974	15.942	-14.570	0.00	0.00	H
ATOM	4281	H2	WAT	6762	-6.431	17.303	-14.091	0.00	0.00	H
TER	4282		WAT	6762						
ATOM	4283	O	WAT	6817	-17.500	1.234	-3.501	0.00	0.00	O
ATOM	4284	H1	WAT	6817	-16.846	0.620	-3.838	0.00	0.00	H
ATOM	4285	H2	WAT	6817	-17.720	1.786	-4.251	0.00	0.00	H
TER	4286		WAT	6817						
ATOM	4287	O	WAT	6841	-14.428	-9.886	15.048	0.00	0.00	O
ATOM	4288	H1	WAT	6841	-14.205	-9.027	14.690	0.00	0.00	H
ATOM	4289	H2	WAT	6841	-13.627	-10.179	15.485	0.00	0.00	H
TER	4290		WAT	6841						
ATOM	4291	O	WAT	6885	2.590	-24.524	2.787	0.00	0.00	O
ATOM	4292	H1	WAT	6885	2.434	-23.774	2.212	0.00	0.00	H
ATOM	4293	H2	WAT	6885	1.761	-24.650	3.248	0.00	0.00	H
TER	4294		WAT	6885						
ATOM	4295	O	WAT	6907	-17.763	12.319	-8.793	0.00	0.00	O
ATOM	4296	H1	WAT	6907	-16.821	12.158	-8.749	0.00	0.00	H
ATOM	4297	H2	WAT	6907	-18.066	12.218	-7.889	0.00	0.00	H
TER	4298		WAT	6907						
ATOM	4299	O	WAT	6915	-6.774	10.660	14.209	0.00	0.00	O
ATOM	4300	H1	WAT	6915	-6.435	10.624	15.103	0.00	0.00	H
ATOM	4301	H2	WAT	6915	-6.364	11.436	13.828	0.00	0.00	H
TER	4302		WAT	6915						
ATOM	4303	O	WAT	6924	-11.496	-8.499	-4.230	0.00	0.00	O
ATOM	4304	H1	WAT	6924	-11.534	-8.992	-3.409	0.00	0.00	H
ATOM	4305	H2	WAT	6924	-10.839	-7.820	-4.070	0.00	0.00	H
TER	4306		WAT	6924						
ATOM	4307	O	WAT	6928	1.891	-14.512	-2.525	0.00	0.00	O
ATOM	4308	H1	WAT	6928	1.206	-15.125	-2.792	0.00	0.00	H
ATOM	4309	H2	WAT	6928	2.676	-14.814	-2.983	0.00	0.00	H
END										

DATASET 54

HEADER APOPTOSIS 29-OCT-11 XXXX
 TITLE 3D MODEL OF BAK IN COMPLEX WITH THE BH3 DOMAIN OF BIM
 COMPND MOLECULE: APOPTOSIS REGULATOR BAK;
 COMPND 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
 COMPND 3 PROTEIN;
 SOURCE MOLECULE 1 (RESIDUES 1-24): BIM;
 SOURCE 2 NCBI ACCESSION: 043521;
 SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 4 ORGANISM_COMMON: HUMAN;
 SOURCE 5 MOLECULE 2 (RESIDUES 25-187): BAK;
 SOURCE 6 NCBI ACCESSION: Q16611;
 SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 8 ORGANISM_COMMON: HUMAN;
 KEYWDS HETERODIMER, APOPTOSIS
 EXPDTA THEORETICAL MODEL
 JRNL AUTH Y-P PANG, H DAI, A SMITH, XN MENG, PA SCHNEIDER, SH KAUFMANN
 JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING;
 JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
 JRNL REF SCIENTIFIC REPORTS, SUBMITTED
 REMARK 220 THIS IS AN AVERAGE OF CLUSTER 1 CONTAINING 19,500 SIMILAR
 REMARK 220 CONFORMERS IDENTIFIED BY CLUSTER ANALYSIS OF 80 10-NS MOLECULAR
 REMARK 220 DYNAMICS SIMULATIONS OF BAK*BIM USING PMEMD WITH THE
 REMARK 220 FF99SB FORCE FIELD. NO ENERGY MINIMIZATION IS APPLIED
 REMARK 220 TO THIS AVERAGE STRUCTURE.
 MOL 1
 ATOM 1 N ARG 1 4.526 30.862 14.266 0.00 0.00
 ATOM 2 H ARG 1 4.808 30.807 14.139 0.00 0.00
 ATOM 3 CA ARG 1 4.095 31.242 14.823 0.00 0.00
 ATOM 4 HA ARG 1 3.660 30.787 14.942 0.00 0.00
 ATOM 5 CB ARG 1 3.503 31.666 14.206 0.00 0.00
 ATOM 6 HB2 ARG 1 3.231 31.966 14.462 0.00 0.00
 ATOM 7 HB3 ARG 1 3.773 31.993 14.011 0.00 0.00
 ATOM 8 CG ARG 1 2.895 31.257 13.509 0.00 0.00
 ATOM 9 HG2 ARG 1 3.048 30.998 13.272 0.00 0.00
 ATOM 10 HG3 ARG 1 2.676 31.012 13.634 0.00 0.00
 ATOM 11 CD ARG 1 2.364 31.535 12.949 0.00 0.00
 ATOM 12 HD2 ARG 1 2.134 31.673 12.859 0.00 0.00
 ATOM 13 HD3 ARG 1 2.309 31.695 12.773 0.00 0.00
 ATOM 14 NE ARG 1 2.218 31.401 12.757 0.00 0.00
 ATOM 15 HE ARG 1 2.328 31.165 12.888 0.00 0.00
 ATOM 16 CZ ARG 1 1.948 31.551 12.418 0.00 0.00
 ATOM 17 NH1 ARG 1 1.768 31.845 12.199 0.00 0.00
 ATOM 18 1HH1 ARG 1 1.823 31.962 12.272 0.00 0.00
 ATOM 19 2HH1 ARG 1 1.565 31.942 11.943 0.00 0.00
 ATOM 20 NH2 ARG 1 1.853 31.403 12.292 0.00 0.00
 ATOM 21 1HH2 ARG 1 1.982 31.174 12.446 0.00 0.00
 ATOM 22 2HH2 ARG 1 1.650 31.515 12.036 0.00 0.00
 ATOM 23 C ARG 1 4.781 31.817 15.847 0.00 0.00
 ATOM 24 O ARG 1 5.450 32.686 15.689 0.00 0.00
 ATOM 25 N PRO 2 4.662 31.353 16.899 0.00 0.00
 ATOM 26 CD PRO 2 3.862 30.379 17.205 0.00 0.00
 ATOM 27 HD2 PRO 2 4.196 29.578 16.957 0.00 0.00
 ATOM 28 HD3 PRO 2 2.993 30.447 16.839 0.00 0.00
 ATOM 29 CG PRO 2 3.816 30.409 18.467 0.00 0.00
 ATOM 30 HG2 PRO 2 3.798 29.630 18.796 0.00 0.00
 ATOM 31 HG3 PRO 2 3.121 30.816 18.666 0.00 0.00
 ATOM 32 CB PRO 2 4.863 31.047 18.907 0.00 0.00
 ATOM 33 HB2 PRO 2 4.672 31.503 19.610 0.00 0.00
 ATOM 34 HB3 PRO 2 5.494 30.445 19.114 0.00 0.00
 ATOM 35 CA PRO 2 5.238 31.875 17.941 0.00 0.00
 ATOM 36 HA PRO 2 4.861 32.733 18.080 0.00 0.00
 ATOM 37 C PRO 2 6.607 32.068 17.935 0.00 0.00
 ATOM 38 O PRO 2 7.072 32.902 18.491 0.00 0.00
 ATOM 39 N GLU 3 7.258 31.348 17.281 0.00 0.00
 ATOM 40 H GLU 3 6.836 30.668 16.871 0.00 0.00
 ATOM 41 CA GLU 3 8.557 31.479 17.141 0.00 0.00
 ATOM 42 HA GLU 3 8.968 31.573 18.013 0.00 0.00
 ATOM 43 CB GLU 3 9.033 30.297 16.588 0.00 0.00
 ATOM 44 HB2 GLU 3 9.494 30.245 16.402 0.00 0.00
 ATOM 45 HB3 GLU 3 9.103 29.897 16.845 0.00 0.00
 ATOM 46 CG GLU 3 8.843 29.707 15.958 0.00 0.00

ATOM	47	HG2	GLU	3	8.506	29.969	15.876	0.00	0.00
ATOM	48	HG3	GLU	3	9.096	29.799	15.726	0.00	0.00
ATOM	49	CD	GLU	3	8.788	28.633	15.738	0.00	0.00
ATOM	50	OE1	GLU	3	8.785	28.159	15.661	0.00	0.00
ATOM	51	OE2	GLU	3	8.745	28.249	15.636	0.00	0.00
ATOM	52	C	GLU	3	8.958	32.644	16.447	0.00	0.00
ATOM	53	O	GLU	3	9.991	33.048	16.601	0.00	0.00
ATOM	54	N	ILE	4	8.153	33.204	15.715	0.00	0.00
ATOM	55	H	ILE	4	7.324	32.814	15.640	0.00	0.00
ATOM	56	CA	ILE	4	8.380	34.373	15.047	0.00	0.00
ATOM	57	HA	ILE	4	9.339	34.607	15.074	0.00	0.00
ATOM	58	CB	ILE	4	8.010	34.154	13.738	0.00	0.00
ATOM	59	HB	ILE	4	7.739	34.246	13.623	0.00	0.00
ATOM	60	CG2	ILE	4	8.205	34.309	13.260	0.00	0.00
ATOM	61	1HG2	ILE	4	8.236	34.335	13.100	0.00	0.00
ATOM	62	2HG2	ILE	4	8.267	34.352	13.168	0.00	0.00
ATOM	63	3HG2	ILE	4	8.249	34.358	13.150	0.00	0.00
ATOM	64	CG1	ILE	4	7.803	33.664	13.024	0.00	0.00
ATOM	65	2HG1	ILE	4	7.643	33.101	13.136	0.00	0.00
ATOM	66	3HG1	ILE	4	7.435	33.826	12.892	0.00	0.00
ATOM	67	CD1	ILE	4	8.268	33.676	12.305	0.00	0.00
ATOM	68	1HD1	ILE	4	8.377	33.665	12.153	0.00	0.00
ATOM	69	2HD1	ILE	4	8.370	33.659	12.108	0.00	0.00
ATOM	70	3HD1	ILE	4	8.387	33.702	12.126	0.00	0.00
ATOM	71	C	ILE	4	7.806	35.534	15.622	0.00	0.00
ATOM	72	O	ILE	4	8.290	36.593	15.470	0.00	0.00
ATOM	73	N	TRP	5	6.822	35.362	16.341	0.00	0.00
ATOM	74	H	TRP	5	6.445	34.484	16.411	0.00	0.00
ATOM	75	CA	TRP	5	6.224	36.400	16.997	0.00	0.00
ATOM	76	HA	TRP	5	6.008	37.121	16.358	0.00	0.00
ATOM	77	CB	TRP	5	5.008	35.898	17.538	0.00	0.00
ATOM	78	HB2	TRP	5	5.056	35.230	17.977	0.00	0.00
ATOM	79	HB3	TRP	5	4.712	36.419	18.051	0.00	0.00
ATOM	80	CG	TRP	5	4.094	35.606	16.916	0.00	0.00
ATOM	81	CD1	TRP	5	3.934	35.801	16.120	0.00	0.00
ATOM	82	HD1	TRP	5	4.453	36.190	15.818	0.00	0.00
ATOM	83	NE1	TRP	5	3.007	35.429	15.750	0.00	0.00
ATOM	84	HE1	TRP	5	2.735	35.495	15.162	0.00	0.00
ATOM	85	CE2	TRP	5	2.511	34.978	16.291	0.00	0.00
ATOM	86	CZ2	TRP	5	1.569	34.506	16.215	0.00	0.00
ATOM	87	HZ2	TRP	5	1.085	34.448	15.638	0.00	0.00
ATOM	88	CH2	TRP	5	1.269	34.114	16.900	0.00	0.00
ATOM	89	HH2	TRP	5	0.551	33.748	16.853	0.00	0.00
ATOM	90	CZ3	TRP	5	1.907	34.205	17.651	0.00	0.00
ATOM	91	HZ3	TRP	5	1.672	33.906	18.176	0.00	0.00
ATOM	92	CE3	TRP	5	2.849	34.684	17.724	0.00	0.00
ATOM	93	HE3	TRP	5	3.327	34.755	18.303	0.00	0.00
ATOM	94	CD2	TRP	5	3.183	35.080	17.045	0.00	0.00
ATOM	95	C	TRP	5	7.057	37.080	17.969	0.00	0.00
ATOM	96	O	TRP	5	6.828	38.177	18.289	0.00	0.00
ATOM	97	N	ILE	6	8.073	36.482	18.388	0.00	0.00
ATOM	98	H	ILE	6	8.176	35.575	18.125	0.00	0.00
ATOM	99	CA	ILE	6	9.056	37.071	19.202	0.00	0.00
ATOM	100	HA	ILE	6	8.563	37.500	20.005	0.00	0.00
ATOM	101	CB	ILE	6	9.949	36.001	19.737	0.00	0.00
ATOM	102	HB	ILE	6	9.597	35.482	19.963	0.00	0.00
ATOM	103	CG2	ILE	6	10.658	35.476	19.202	0.00	0.00
ATOM	104	1HG2	ILE	6	10.850	35.297	19.058	0.00	0.00
ATOM	105	2HG2	ILE	6	10.823	35.356	19.065	0.00	0.00
ATOM	106	3HG2	ILE	6	10.826	35.371	19.099	0.00	0.00
ATOM	107	CG1	ILE	6	10.589	36.082	20.546	0.00	0.00
ATOM	108	2HG1	ILE	6	11.034	35.801	20.579	0.00	0.00
ATOM	109	3HG1	ILE	6	10.684	36.590	20.523	0.00	0.00
ATOM	110	CD1	ILE	6	10.528	35.837	21.370	0.00	0.00
ATOM	111	1HD1	ILE	6	10.524	35.754	21.571	0.00	0.00
ATOM	112	2HD1	ILE	6	10.534	35.790	21.590	0.00	0.00
ATOM	113	3HD1	ILE	6	10.491	35.787	21.557	0.00	0.00
ATOM	114	C	ILE	6	9.784	38.199	18.538	0.00	0.00
ATOM	115	O	ILE	6	10.320	39.031	19.197	0.00	0.00
ATOM	116	N	ALA	7	9.742	38.302	17.244	0.00	0.00
ATOM	117	H	ALA	7	9.302	37.597	16.745	0.00	0.00
ATOM	118	CA	ALA	7	10.226	39.427	16.515	0.00	0.00
ATOM	119	HA	ALA	7	11.248	39.538	16.730	0.00	0.00
ATOM	120	CB	ALA	7	10.086	39.134	15.074	0.00	0.00
ATOM	121	HB1	ALA	7	10.030	39.147	14.717	0.00	0.00
ATOM	122	HB2	ALA	7	10.136	39.047	14.721	0.00	0.00
ATOM	123	HB3	ALA	7	10.001	39.005	14.737	0.00	0.00
ATOM	124	C	ALA	7	9.540	40.731	16.870	0.00	0.00
ATOM	125	O	ALA	7	10.152	41.756	16.840	0.00	0.00
ATOM	126	N	GLN	8	8.295	40.698	17.268	0.00	0.00
ATOM	127	H	GLN	8	7.840	39.835	17.258	0.00	0.00
ATOM	128	CA	GLN	8	7.570	41.843	17.761	0.00	0.00
ATOM	129	HA	GLN	8	7.715	42.648	17.087	0.00	0.00
ATOM	130	CB	GLN	8	6.102	41.530	17.803	0.00	0.00
ATOM	131	HB2	GLN	8	5.907	40.836	18.106	0.00	0.00
ATOM	132	HB3	GLN	8	5.675	42.012	18.251	0.00	0.00
ATOM	133	CG	GLN	8	5.439	41.517	16.854	0.00	0.00
ATOM	134	HG2	GLN	8	5.384	41.753	16.547	0.00	0.00
ATOM	135	HG3	GLN	8	5.565	41.252	16.674	0.00	0.00
ATOM	136	CD	GLN	8	4.654	41.535	16.543	0.00	0.00
ATOM	137	OE1	GLN	8	4.430	41.739	16.823	0.00	0.00
ATOM	138	NE2	GLN	8	4.206	41.325	15.950	0.00	0.00
ATOM	139	1HE2	GLN	8	3.690	41.337	15.744	0.00	0.00
ATOM	140	2HE2	GLN	8	4.371	41.159	15.707	0.00	0.00
ATOM	141	C	GLN	8	8.070	42.312	19.114	0.00	0.00
ATOM	142	O	GLN	8	8.064	43.484	19.384	0.00	0.00
ATOM	143	N	GLU	9	8.568	41.429	19.945	0.00	0.00
ATOM	144	H	GLU	9	8.564	40.487	19.672	0.00	0.00
ATOM	145	CA	GLU	9	9.198	41.775	21.206	0.00	0.00
ATOM	146	HA	GLU	9	8.594	42.516	21.696	0.00	0.00
ATOM	147	CB	GLU	9	9.270	40.554	22.104	0.00	0.00
ATOM	148	HB2	GLU	9	8.892	39.948	21.901	0.00	0.00
ATOM	149	HB3	GLU	9	9.934	40.246	22.186	0.00	0.00
ATOM	150	CG	GLU	9	8.981	40.515	23.171	0.00	0.00
ATOM	151	HG2	GLU	9	8.933	39.848	23.165	0.00	0.00

ATOM	152	HG3	GLU	9	9.563	40.583	23.414	0.00	0.00
ATOM	153	CD	GLU	9	7.995	41.226	23.934	0.00	0.00
ATOM	154	OE1	GLU	9	7.561	41.585	24.166	0.00	0.00
ATOM	155	OE2	GLU	9	7.638	41.442	24.318	0.00	0.00
ATOM	156	C	GLU	9	10.573	42.392	20.999	0.00	0.00
ATOM	157	O	GLU	9	10.896	43.364	21.648	0.00	0.00
ATOM	158	N	LEU	10	11.349	41.906	20.039	0.00	0.00
ATOM	159	H	LEU	10	11.033	41.098	19.561	0.00	0.00
ATOM	160	CA	LEU	10	12.629	42.489	19.647	0.00	0.00
ATOM	161	HA	LEU	10	13.253	42.523	20.523	0.00	0.00
ATOM	162	CB	LEU	10	13.288	41.572	18.617	0.00	0.00
ATOM	163	HB2	LEU	10	13.282	40.595	18.971	0.00	0.00
ATOM	164	HB3	LEU	10	12.718	41.582	17.756	0.00	0.00
ATOM	165	CG	LEU	10	14.681	41.890	18.222	0.00	0.00
ATOM	166	HG	LEU	10	14.663	42.785	17.846	0.00	0.00
ATOM	167	CD1	LEU	10	15.646	41.850	19.227	0.00	0.00
ATOM	168	1HD1	LEU	10	15.885	41.869	19.477	0.00	0.00
ATOM	169	2HD1	LEU	10	15.874	41.819	19.479	0.00	0.00
ATOM	170	3HD1	LEU	10	15.895	41.847	19.450	0.00	0.00
ATOM	171	CD2	LEU	10	15.182	41.012	17.260	0.00	0.00
ATOM	172	1HD2	LEU	10	15.256	40.788	17.014	0.00	0.00
ATOM	173	2HD2	LEU	10	15.318	40.839	17.009	0.00	0.00
ATOM	174	3HD2	LEU	10	15.339	40.777	17.053	0.00	0.00
ATOM	175	C	LEU	10	12.474	43.930	19.144	0.00	0.00
ATOM	176	O	LEU	10	13.273	44.786	19.470	0.00	0.00
ATOM	177	N	ARG	11	11.402	44.220	18.420	0.00	0.00
ATOM	178	H	ARG	11	10.820	43.461	18.163	0.00	0.00
ATOM	179	CA	ARG	11	11.011	45.570	18.013	0.00	0.00
ATOM	180	HA	ARG	11	11.861	46.056	17.570	0.00	0.00
ATOM	181	CB	ARG	11	9.911	45.467	16.967	0.00	0.00
ATOM	182	HB2	ARG	11	10.038	44.815	16.457	0.00	0.00
ATOM	183	HB3	ARG	11	9.142	45.312	17.280	0.00	0.00
ATOM	184	CG	ARG	11	9.663	46.378	16.122	0.00	0.00
ATOM	185	HG2	ARG	11	10.214	46.883	15.993	0.00	0.00
ATOM	186	HG3	ARG	11	9.605	46.137	15.568	0.00	0.00
ATOM	187	CD	ARG	11	8.745	46.931	16.118	0.00	0.00
ATOM	188	HD2	ARG	11	8.977	47.298	16.407	0.00	0.00
ATOM	189	HD3	ARG	11	8.548	47.280	15.588	0.00	0.00
ATOM	190	NE	ARG	11	7.828	46.561	16.400	0.00	0.00
ATOM	191	HE	ARG	11	7.723	46.153	16.314	0.00	0.00
ATOM	192	CZ	ARG	11	7.084	46.733	16.730	0.00	0.00
ATOM	193	NH1	ARG	11	7.068	47.266	16.861	0.00	0.00
ATOM	194	1HH1	ARG	11	7.613	47.583	16.691	0.00	0.00
ATOM	195	2HH1	ARG	11	6.481	47.380	17.103	0.00	0.00
ATOM	196	NH2	ARG	11	6.327	46.361	16.943	0.00	0.00
ATOM	197	1HH2	ARG	11	6.296	45.953	16.841	0.00	0.00
ATOM	198	2HH2	ARG	11	5.752	46.508	17.174	0.00	0.00
ATOM	199	C	ARG	11	10.620	46.433	19.202	0.00	0.00
ATOM	200	O	ARG	11	11.071	47.556	19.291	0.00	0.00
ATOM	201	N	ARG	12	9.851	45.904	20.141	0.00	0.00
ATOM	202	H	ARG	12	9.535	44.978	19.992	0.00	0.00
ATOM	203	CA	ARG	12	9.413	46.603	21.348	0.00	0.00
ATOM	204	HA	ARG	12	8.952	47.529	21.051	0.00	0.00
ATOM	205	CB	ARG	12	8.373	45.767	22.082	0.00	0.00
ATOM	206	HB2	ARG	12	7.802	45.351	21.541	0.00	0.00
ATOM	207	HB3	ARG	12	8.729	45.112	22.558	0.00	0.00
ATOM	208	CG	ARG	12	7.598	46.380	22.900	0.00	0.00
ATOM	209	HG2	ARG	12	8.069	46.853	23.364	0.00	0.00
ATOM	210	HG3	ARG	12	7.204	46.902	22.463	0.00	0.00
ATOM	211	CD	ARG	12	6.695	45.678	23.691	0.00	0.00
ATOM	212	HD2	ARG	12	6.525	46.049	24.297	0.00	0.00
ATOM	213	HD3	ARG	12	6.018	45.590	23.378	0.00	0.00
ATOM	214	NE	ARG	12	6.910	44.658	24.075	0.00	0.00
ATOM	215	HE	ARG	12	7.028	44.097	23.951	0.00	0.00
ATOM	216	CZ	ARG	12	6.947	44.378	24.581	0.00	0.00
ATOM	217	NH1	ARG	12	6.809	44.991	24.822	0.00	0.00
ATOM	218	1HH1	ARG	12	6.652	45.714	24.650	0.00	0.00
ATOM	219	2HH1	ARG	12	6.838	44.727	25.214	0.00	0.00
ATOM	220	NH2	ARG	12	7.133	43.444	24.858	0.00	0.00
ATOM	221	1HH2	ARG	12	7.233	42.949	24.695	0.00	0.00
ATOM	222	2HH2	ARG	12	7.160	43.217	25.241	0.00	0.00
ATOM	223	C	ARG	12	10.566	46.995	22.249	0.00	0.00
ATOM	224	O	ARG	12	10.627	48.139	22.647	0.00	0.00
ATOM	225	N	ILE	13	11.502	46.102	22.526	0.00	0.00
ATOM	226	H	ILE	13	11.382	45.172	22.196	0.00	0.00
ATOM	227	CA	ILE	13	12.677	46.429	23.331	0.00	0.00
ATOM	228	HA	ILE	13	12.336	47.013	24.165	0.00	0.00
ATOM	229	CB	ILE	13	13.352	45.196	23.932	0.00	0.00
ATOM	230	HB	ILE	13	14.065	45.522	24.517	0.00	0.00
ATOM	231	CG2	ILE	13	12.476	44.491	24.755	0.00	0.00
ATOM	232	1HG2	ILE	13	12.262	44.243	24.875	0.00	0.00
ATOM	233	2HG2	ILE	13	12.337	44.324	25.061	0.00	0.00
ATOM	234	3HG2	ILE	13	12.194	44.391	24.953	0.00	0.00
ATOM	235	CG1	ILE	13	13.987	44.297	23.031	0.00	0.00
ATOM	236	2HG1	ILE	13	13.340	43.915	22.465	0.00	0.00
ATOM	237	3HG1	ILE	13	14.580	44.801	22.493	0.00	0.00
ATOM	238	CD1	ILE	13	14.722	43.224	23.564	0.00	0.00
ATOM	239	1HD1	ILE	13	14.903	42.964	23.690	0.00	0.00
ATOM	240	2HD1	ILE	13	14.894	42.957	23.684	0.00	0.00
ATOM	241	3HD1	ILE	13	14.906	42.964	23.683	0.00	0.00
ATOM	242	C	ILE	13	13.653	47.337	22.599	0.00	0.00
ATOM	243	O	ILE	13	14.287	48.155	23.225	0.00	0.00
ATOM	244	N	GLY	14	13.713	47.278	21.279	0.00	0.00
ATOM	245	H	GLY	14	13.208	46.562	20.819	0.00	0.00
ATOM	246	CA	GLY	14	14.443	48.231	20.465	0.00	0.00
ATOM	247	HA2	GLY	14	15.470	48.237	20.758	0.00	0.00
ATOM	248	HA3	GLY	14	14.379	47.922	19.445	0.00	0.00
ATOM	249	C	GLY	14	13.915	49.652	20.565	0.00	0.00
ATOM	250	O	GLY	14	14.670	50.576	20.714	0.00	0.00
ATOM	251	N	ASP	15	12.621	49.837	20.567	0.00	0.00
ATOM	252	H	ASP	15	12.046	49.052	20.418	0.00	0.00
ATOM	253	CA	ASP	15	12.000	51.141	20.759	0.00	0.00
ATOM	254	HA	ASP	15	12.525	51.866	20.162	0.00	0.00
ATOM	255	CB	ASP	15	10.563	51.097	20.276	0.00	0.00
ATOM	256	HB2	ASP	15	10.088	50.291	20.599	0.00	0.00

ATOM	257	HB3	ASP	15	10.071	51.862	20.634	0.00	0.00
ATOM	258	CG	ASP	15	10.391	51.151	18.892	0.00	0.00
ATOM	259	OD1	ASP	15	10.471	51.265	18.291	0.00	0.00
ATOM	260	OD2	ASP	15	10.131	51.129	18.376	0.00	0.00
ATOM	261	C	ASP	15	12.083	51.639	22.197	0.00	0.00
ATOM	262	O	ASP	15	12.167	52.829	22.422	0.00	0.00
ATOM	263	N	GLU	16	12.127	50.756	23.176	0.00	0.00
ATOM	264	H	GLU	16	12.021	49.801	22.945	0.00	0.00
ATOM	265	CA	GLU	16	12.374	51.116	24.560	0.00	0.00
ATOM	266	HA	GLU	16	11.769	51.968	24.801	0.00	0.00
ATOM	267	CB	GLU	16	11.979	49.973	25.479	0.00	0.00
ATOM	268	HB2	GLU	16	11.786	49.305	25.147	0.00	0.00
ATOM	269	HB3	GLU	16	12.525	49.739	25.955	0.00	0.00
ATOM	270	CG	GLU	16	11.117	50.025	26.230	0.00	0.00
ATOM	271	HG2	GLU	16	10.977	49.999	26.305	0.00	0.00
ATOM	272	HG3	GLU	16	11.174	49.984	26.214	0.00	0.00
ATOM	273	CD	GLU	16	10.366	50.144	26.915	0.00	0.00
ATOM	274	OE1	GLU	16	10.133	50.230	27.257	0.00	0.00
ATOM	275	OE2	GLU	16	9.991	50.156	27.132	0.00	0.00
ATOM	276	C	GLU	16	13.810	51.542	24.791	0.00	0.00
ATOM	277	O	GLU	16	14.051	52.499	25.495	0.00	0.00
ATOM	278	N	PHE	17	14.767	50.911	24.142	0.00	0.00
ATOM	279	H	PHE	17	14.529	50.110	23.614	0.00	0.00
ATOM	280	CA	PHE	17	16.143	51.360	24.132	0.00	0.00
ATOM	281	HA	PHE	17	16.453	51.510	25.142	0.00	0.00
ATOM	282	CB	PHE	17	17.034	50.298	23.526	0.00	0.00
ATOM	283	HB2	PHE	17	16.653	49.729	23.272	0.00	0.00
ATOM	284	HB3	PHE	17	17.475	50.457	22.887	0.00	0.00
ATOM	285	CG	PHE	17	17.875	49.775	24.055	0.00	0.00
ATOM	286	CD1	PHE	17	18.252	49.482	24.376	0.00	0.00
ATOM	287	HD1	PHE	17	17.940	49.627	24.262	0.00	0.00
ATOM	288	CE1	PHE	17	19.033	49.004	24.846	0.00	0.00
ATOM	289	HE1	PHE	17	19.313	48.784	25.090	0.00	0.00
ATOM	290	CZ	PHE	17	19.446	48.814	25.000	0.00	0.00
ATOM	291	HZ	PHE	17	20.043	48.448	25.360	0.00	0.00
ATOM	292	CE2	PHE	17	19.080	49.104	24.684	0.00	0.00
ATOM	293	HE2	PHE	17	19.395	48.961	24.804	0.00	0.00
ATOM	294	CD2	PHE	17	18.300	49.583	24.213	0.00	0.00
ATOM	295	HD2	PHE	17	18.023	49.805	23.976	0.00	0.00
ATOM	296	C	PHE	17	16.305	52.695	23.415	0.00	0.00
ATOM	297	O	PHE	17	17.096	53.506	23.814	0.00	0.00
ATOM	298	N	ASN	18	15.527	52.975	22.402	0.00	0.00
ATOM	299	H	ASN	18	14.918	52.269	22.093	0.00	0.00
ATOM	300	CA	ASN	18	15.542	54.255	21.715	0.00	0.00
ATOM	301	HA	ASN	18	16.555	54.487	21.468	0.00	0.00
ATOM	302	CB	ASN	18	14.758	54.143	20.427	0.00	0.00
ATOM	303	HB2	ASN	18	14.993	53.239	19.926	0.00	0.00
ATOM	304	HB3	ASN	18	13.724	54.125	20.633	0.00	0.00
ATOM	305	CG	ASN	18	15.057	55.261	19.494	0.00	0.00
ATOM	306	OD1	ASN	18	16.124	55.493	19.123	0.00	0.00
ATOM	307	ND2	ASN	18	14.147	55.989	19.096	0.00	0.00
ATOM	308	1HD2	ASN	18	14.345	56.728	18.491	0.00	0.00
ATOM	309	2HD2	ASN	18	13.273	55.794	19.383	0.00	0.00
ATOM	310	C	ASN	18	15.041	55.391	22.591	0.00	0.00
ATOM	311	O	ASN	18	15.570	56.469	22.544	0.00	0.00
ATOM	312	N	ALA	19	14.080	55.136	23.443	0.00	0.00
ATOM	313	H	ALA	19	13.663	54.247	23.410	0.00	0.00
ATOM	314	CA	ALA	19	13.613	56.073	24.428	0.00	0.00
ATOM	315	HA	ALA	19	13.472	57.018	23.959	0.00	0.00
ATOM	316	CB	ALA	19	12.284	55.603	24.930	0.00	0.00
ATOM	317	HB1	ALA	19	11.967	55.493	25.073	0.00	0.00
ATOM	318	HB2	ALA	19	11.947	55.514	25.044	0.00	0.00
ATOM	319	HB3	ALA	19	11.965	55.477	25.036	0.00	0.00
ATOM	320	C	ALA	19	14.594	56.291	25.551	0.00	0.00
ATOM	321	O	ALA	19	14.709	57.365	26.036	0.00	0.00
ATOM	322	N	TYR	20	15.350	55.306	25.922	0.00	0.00
ATOM	323	H	TYR	20	15.181	54.442	25.521	0.00	0.00
ATOM	324	CA	TYR	20	16.412	55.408	26.875	0.00	0.00
ATOM	325	HA	TYR	20	16.057	55.893	27.725	0.00	0.00
ATOM	326	CB	TYR	20	16.820	54.046	27.258	0.00	0.00
ATOM	327	HB2	TYR	20	16.111	53.541	27.602	0.00	0.00
ATOM	328	HB3	TYR	20	17.080	53.592	26.510	0.00	0.00
ATOM	329	CG	TYR	20	17.792	53.891	28.151	0.00	0.00
ATOM	330	CD1	TYR	20	17.808	53.801	29.213	0.00	0.00
ATOM	331	HD1	TYR	20	17.133	53.851	29.396	0.00	0.00
ATOM	332	CE1	TYR	20	18.704	53.630	30.037	0.00	0.00
ATOM	333	HE1	TYR	20	18.715	53.552	30.846	0.00	0.00
ATOM	334	CZ	TYR	20	19.591	53.557	29.802	0.00	0.00
ATOM	335	OH	TYR	20	20.455	53.396	30.590	0.00	0.00
ATOM	336	HH	TYR	20	20.410	53.296	31.243	0.00	0.00
ATOM	337	CE2	TYR	20	19.576	53.653	28.741	0.00	0.00
ATOM	338	HE2	TYR	20	20.254	53.596	28.567	0.00	0.00
ATOM	339	CD2	TYR	20	18.680	53.814	27.917	0.00	0.00
ATOM	340	HD2	TYR	20	18.677	53.872	27.107	0.00	0.00
ATOM	341	C	TYR	20	17.564	56.219	26.392	0.00	0.00
ATOM	342	O	TYR	20	18.073	57.026	27.096	0.00	0.00
ATOM	343	N	TYR	21	17.935	56.069	25.176	0.00	0.00
ATOM	344	H	TYR	21	17.494	55.381	24.655	0.00	0.00
ATOM	345	CA	TYR	21	18.981	56.790	24.580	0.00	0.00
ATOM	346	HA	TYR	21	19.806	56.705	25.176	0.00	0.00
ATOM	347	CB	TYR	21	19.307	56.184	23.274	0.00	0.00
ATOM	348	HB2	TYR	21	19.377	55.375	23.260	0.00	0.00
ATOM	349	HB3	TYR	21	18.751	56.291	22.743	0.00	0.00
ATOM	350	CG	TYR	21	20.264	56.462	22.671	0.00	0.00
ATOM	351	CD1	TYR	21	21.166	56.166	22.798	0.00	0.00
ATOM	352	HD1	TYR	21	21.178	55.749	23.323	0.00	0.00
ATOM	353	CE1	TYR	21	22.050	56.408	22.237	0.00	0.00
ATOM	354	HE1	TYR	21	22.736	56.176	22.335	0.00	0.00
ATOM	355	CZ	TYR	21	22.037	56.948	21.546	0.00	0.00
ATOM	356	OH	TYR	21	22.882	57.178	21.001	0.00	0.00
ATOM	357	HH	TYR	21	23.469	57.078	21.115	0.00	0.00
ATOM	358	CE2	TYR	21	21.138	57.249	21.418	0.00	0.00
ATOM	359	HE2	TYR	21	21.134	57.664	20.890	0.00	0.00
ATOM	360	CD2	TYR	21	20.254	57.006	21.978	0.00	0.00
ATOM	361	HD2	TYR	21	19.570	57.234	21.876	0.00	0.00

ATOM	362	C	TYR	21	18.705	58.219	24.484	0.00	0.00
ATOM	363	O	TYR	21	19.540	58.994	24.560	0.00	0.00
ATOM	364	N	ALA	22	17.541	58.588	24.392	0.00	0.00
ATOM	365	H	ALA	22	16.900	57.914	24.305	0.00	0.00
ATOM	366	CA	ALA	22	17.145	59.910	24.392	0.00	0.00
ATOM	367	HA	ALA	22	17.761	60.419	23.845	0.00	0.00
ATOM	368	CB	ALA	22	15.912	59.958	23.788	0.00	0.00
ATOM	369	HB1	ALA	22	15.630	59.994	23.606	0.00	0.00
ATOM	370	HB2	ALA	22	15.614	59.925	23.645	0.00	0.00
ATOM	371	HB3	ALA	22	15.598	60.003	23.669	0.00	0.00
ATOM	372	C	ALA	22	17.144	60.594	25.652	0.00	0.00
ATOM	373	O	ALA	22	17.110	61.687	25.742	0.00	0.00
ATOM	374	N	ARG	23	17.199	59.967	26.625	0.00	0.00
ATOM	375	H	ARG	23	17.190	59.078	26.477	0.00	0.00
ATOM	376	CA	ARG	23	17.242	60.483	27.881	0.00	0.00
ATOM	377	HA	ARG	23	17.058	61.400	27.923	0.00	0.00
ATOM	378	CB	ARG	23	16.365	59.952	28.621	0.00	0.00
ATOM	379	HB2	ARG	23	16.373	59.587	28.753	0.00	0.00
ATOM	380	HB3	ARG	23	16.248	60.130	28.965	0.00	0.00
ATOM	381	CG	ARG	23	15.616	59.693	28.743	0.00	0.00
ATOM	382	HG2	ARG	23	15.555	59.963	28.603	0.00	0.00
ATOM	383	HG3	ARG	23	15.673	59.521	28.480	0.00	0.00
ATOM	384	CD	ARG	23	14.857	59.307	29.414	0.00	0.00
ATOM	385	HD2	ARG	23	14.933	59.312	29.744	0.00	0.00
ATOM	386	HD3	ARG	23	14.527	59.457	29.454	0.00	0.00
ATOM	387	NE	ARG	23	14.462	58.746	29.584	0.00	0.00
ATOM	388	HE	ARG	23	14.529	58.738	29.678	0.00	0.00
ATOM	389	CZ	ARG	23	14.019	58.250	29.639	0.00	0.00
ATOM	390	NH1	ARG	23	13.859	58.178	29.545	0.00	0.00
ATOM	391	1HH1	ARG	23	14.056	58.510	29.441	0.00	0.00
ATOM	392	2HH1	ARG	23	13.513	57.790	29.605	0.00	0.00
ATOM	393	NH2	ARG	23	13.722	57.798	29.791	0.00	0.00
ATOM	394	1HH2	ARG	23	13.816	57.830	29.882	0.00	0.00
ATOM	395	2HH2	ARG	23	13.387	57.425	29.834	0.00	0.00
ATOM	396	C	ARG	23	18.373	60.413	28.429	0.00	0.00
ATOM	397	O	ARG	23	18.585	60.854	29.161	0.00	0.00
ATOM	398	N	ARG	24	19.099	59.874	28.086	0.00	0.00
ATOM	399	H	ARG	24	18.848	59.532	27.496	0.00	0.00
ATOM	400	CA	ARG	24	20.206	59.722	28.514	0.00	0.00
ATOM	401	HA	ARG	24	20.345	59.899	29.049	0.00	0.00
ATOM	402	CB	ARG	24	20.600	58.897	28.614	0.00	0.00
ATOM	403	HB2	ARG	24	20.873	58.735	28.482	0.00	0.00
ATOM	404	HB3	ARG	24	20.383	58.682	28.502	0.00	0.00
ATOM	405	CG	ARG	24	20.923	58.566	29.043	0.00	0.00
ATOM	406	HG2	ARG	24	20.888	58.635	29.109	0.00	0.00
ATOM	407	HG3	ARG	24	20.959	58.651	29.071	0.00	0.00
ATOM	408	CD	ARG	24	21.241	58.010	29.346	0.00	0.00
ATOM	409	HD2	ARG	24	21.104	57.820	29.205	0.00	0.00
ATOM	410	HD3	ARG	24	21.200	58.034	29.493	0.00	0.00
ATOM	411	NE	ARG	24	21.768	57.692	29.628	0.00	0.00
ATOM	412	HE	ARG	24	21.903	57.651	29.603	0.00	0.00
ATOM	413	CZ	ARG	24	22.084	57.446	29.918	0.00	0.00
ATOM	414	NH1	ARG	24	21.976	57.455	29.997	0.00	0.00
ATOM	415	1HH1	ARG	24	21.644	57.654	29.846	0.00	0.00
ATOM	416	2HH1	ARG	24	22.231	57.255	30.216	0.00	0.00
ATOM	417	NH2	ARG	24	22.528	57.177	30.138	0.00	0.00
ATOM	418	1HH2	ARG	24	22.626	57.158	30.094	0.00	0.00
ATOM	419	2HH2	ARG	24	22.766	56.993	30.359	0.00	0.00
ATOM	420	C	ARG	24	20.789	60.145	28.163	0.00	0.00
ATOM	421	O	ARG	24	20.833	60.211	27.717	0.00	0.00
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ATOM	422	N	SER	25	33.243	56.644	6.542	0.00	0.00
ATOM	423	H	SER	25	33.611	56.480	6.865	0.00	0.00
ATOM	424	CA	SER	25	32.505	56.958	6.710	0.00	0.00
ATOM	425	HA	SER	25	32.199	56.500	6.865	0.00	0.00
ATOM	426	CB	SER	25	32.827	57.371	7.569	0.00	0.00
ATOM	427	HB2	SER	25	33.051	57.835	7.531	0.00	0.00
ATOM	428	HB3	SER	25	32.360	57.511	7.726	0.00	0.00
ATOM	429	OG	SER	25	33.430	56.989	8.222	0.00	0.00
ATOM	430	HG	SER	25	33.741	56.797	8.329	0.00	0.00
ATOM	431	C	SER	25	31.797	57.479	5.856	0.00	0.00
ATOM	432	O	SER	25	30.961	57.789	6.103	0.00	0.00
ATOM	433	N	ALA	26	32.111	57.571	4.847	0.00	0.00
ATOM	434	H	ALA	26	32.811	57.306	4.705	0.00	0.00
ATOM	435	CA	ALA	26	31.533	58.087	3.951	0.00	0.00
ATOM	436	HA	ALA	26	31.043	58.664	4.325	0.00	0.00
ATOM	437	CB	ALA	26	32.387	58.747	3.409	0.00	0.00
ATOM	438	HB1	ALA	26	32.555	58.925	3.248	0.00	0.00
ATOM	439	HB2	ALA	26	32.595	58.926	3.309	0.00	0.00
ATOM	440	HB3	ALA	26	32.624	58.879	3.274	0.00	0.00
ATOM	441	C	ALA	26	30.723	57.280	3.079	0.00	0.00
ATOM	442	O	ALA	26	29.951	57.748	2.469	0.00	0.00
ATOM	443	N	SER	27	30.877	56.073	3.024	0.00	0.00
ATOM	444	H	SER	27	31.525	55.753	3.539	0.00	0.00
ATOM	445	CA	SER	27	30.132	55.164	2.306	0.00	0.00
ATOM	446	HA	SER	27	29.274	55.609	2.018	0.00	0.00
ATOM	447	CB	SER	27	30.836	54.831	1.113	0.00	0.00
ATOM	448	HB2	SER	27	30.508	54.655	0.642	0.00	0.00
ATOM	449	HB3	SER	27	31.198	55.255	0.804	0.00	0.00
ATOM	450	OG	SER	27	31.436	54.211	0.983	0.00	0.00
ATOM	451	HG	SER	27	31.816	54.149	0.421	0.00	0.00
ATOM	452	C	SER	27	29.777	53.943	3.103	0.00	0.00
ATOM	453	O	SER	27	30.474	53.583	4.021	0.00	0.00
ATOM	454	N	GLU	28	28.705	53.272	2.743	0.00	0.00
ATOM	455	H	GLU	28	28.166	53.625	2.000	0.00	0.00
ATOM	456	CA	GLU	28	28.237	52.074	3.415	0.00	0.00
ATOM	457	HA	GLU	28	28.075	52.320	4.445	0.00	0.00
ATOM	458	CB	GLU	28	26.897	51.657	2.835	0.00	0.00
ATOM	459	HB2	GLU	28	26.523	50.974	3.351	0.00	0.00
ATOM	460	HB3	GLU	28	26.301	52.373	2.882	0.00	0.00
ATOM	461	CG	GLU	28	26.809	51.205	1.543	0.00	0.00
ATOM	462	HG2	GLU	28	27.332	51.747	1.034	0.00	0.00
ATOM	463	HG3	GLU	28	27.198	50.389	1.544	0.00	0.00
ATOM	464	CD	GLU	28	25.483	51.124	0.935	0.00	0.00

ATOM	465	OE1	GLU	28	24.955	51.101	0.696	0.00	0.00
ATOM	466	OE2	GLU	28	24.942	51.097	0.684	0.00	0.00
ATOM	467	C	GLU	28	29.241	50.930	3.408	0.00	0.00
ATOM	468	O	GLU	28	29.336	50.203	4.367	0.00	0.00
ATOM	469	N	GLU	29	30.047	50.803	2.375	0.00	0.00
ATOM	470	H	GLU	29	29.936	51.434	1.629	0.00	0.00
ATOM	471	CA	GLU	29	31.089	49.797	2.282	0.00	0.00
ATOM	472	HA	GLU	29	30.689	48.862	2.604	0.00	0.00
ATOM	473	CB	GLU	29	31.521	49.638	0.847	0.00	0.00
ATOM	474	HB2	GLU	29	31.690	50.107	0.502	0.00	0.00
ATOM	475	HB3	GLU	29	32.015	49.307	0.684	0.00	0.00
ATOM	476	CG	GLU	29	31.074	49.264	0.091	0.00	0.00
ATOM	477	HG2	GLU	29	30.983	48.801	0.422	0.00	0.00
ATOM	478	HG3	GLU	29	30.589	49.543	0.168	0.00	0.00
ATOM	479	CD	GLU	29	31.410	49.133	-1.217	0.00	0.00
ATOM	480	OE1	GLU	29	31.572	49.034	-1.727	0.00	0.00
ATOM	481	OE2	GLU	29	31.513	49.126	-1.749	0.00	0.00
ATOM	482	C	GLU	29	32.278	50.094	3.184	0.00	0.00
ATOM	483	O	GLU	29	32.896	49.199	3.676	0.00	0.00
ATOM	484	N	GLN	30	32.570	51.340	3.459	0.00	0.00
ATOM	485	H	GLN	30	32.016	52.027	3.044	0.00	0.00
ATOM	486	CA	GLN	30	33.571	51.753	4.430	0.00	0.00
ATOM	487	HA	GLN	30	34.432	51.125	4.329	0.00	0.00
ATOM	488	CB	GLN	30	33.995	53.176	4.160	0.00	0.00
ATOM	489	HB2	GLN	30	33.413	53.671	3.954	0.00	0.00
ATOM	490	HB3	GLN	30	34.314	53.542	4.787	0.00	0.00
ATOM	491	CG	GLN	30	34.800	53.453	3.346	0.00	0.00
ATOM	492	HG2	GLN	30	35.370	53.099	3.529	0.00	0.00
ATOM	493	HG3	GLN	30	34.590	53.110	2.777	0.00	0.00
ATOM	494	CD	GLN	30	35.139	54.674	3.037	0.00	0.00
ATOM	495	OE1	GLN	30	34.890	55.355	3.205	0.00	0.00
ATOM	496	NE2	GLN	30	35.713	55.004	2.576	0.00	0.00
ATOM	497	1HE2	GLN	30	35.932	55.796	2.371	0.00	0.00
ATOM	498	2HE2	GLN	30	35.925	54.463	2.432	0.00	0.00
ATOM	499	C	GLN	30	33.071	51.590	5.852	0.00	0.00
ATOM	500	O	GLN	30	33.805	51.158	6.704	0.00	0.00
ATOM	501	N	VAL	31	31.807	51.850	6.105	0.00	0.00
ATOM	502	H	VAL	31	31.265	52.225	5.375	0.00	0.00
ATOM	503	CA	VAL	31	31.169	51.598	7.392	0.00	0.00
ATOM	504	HA	VAL	31	31.791	52.015	8.165	0.00	0.00
ATOM	505	CB	VAL	31	29.815	52.290	7.475	0.00	0.00
ATOM	506	HB	VAL	31	29.249	52.039	6.650	0.00	0.00
ATOM	507	CG1	VAL	31	29.039	51.952	8.665	0.00	0.00
ATOM	508	1HG1	VAL	31	28.843	51.880	8.962	0.00	0.00
ATOM	509	2HG1	VAL	31	28.829	51.883	8.942	0.00	0.00
ATOM	510	3HG1	VAL	31	28.849	51.853	8.949	0.00	0.00
ATOM	511	CG2	VAL	31	29.955	53.742	7.501	0.00	0.00
ATOM	512	1HG2	VAL	31	29.958	54.102	7.536	0.00	0.00
ATOM	513	2HG2	VAL	31	30.022	54.095	7.512	0.00	0.00
ATOM	514	3HG2	VAL	31	29.977	54.096	7.467	0.00	0.00
ATOM	515	C	VAL	31	31.075	50.114	7.684	0.00	0.00
ATOM	516	O	VAL	31	31.261	49.726	8.814	0.00	0.00
ATOM	517	N	ALA	32	30.869	49.255	6.700	0.00	0.00
ATOM	518	H	ALA	32	30.656	49.609	5.801	0.00	0.00
ATOM	519	CA	ALA	32	30.899	47.813	6.884	0.00	0.00
ATOM	520	HA	ALA	32	30.194	47.556	7.647	0.00	0.00
ATOM	521	CB	ALA	32	30.442	47.150	5.609	0.00	0.00
ATOM	522	HB1	ALA	32	30.314	46.988	5.306	0.00	0.00
ATOM	523	HB2	ALA	32	30.336	46.997	5.294	0.00	0.00
ATOM	524	HB3	ALA	32	30.337	46.975	5.309	0.00	0.00
ATOM	525	C	ALA	32	32.263	47.299	7.347	0.00	0.00
ATOM	526	O	ALA	32	32.327	46.430	8.175	0.00	0.00
ATOM	527	N	GLN	33	33.349	47.879	6.889	0.00	0.00
ATOM	528	H	GLN	33	33.236	48.577	6.210	0.00	0.00
ATOM	529	CA	GLN	33	34.698	47.559	7.335	0.00	0.00
ATOM	530	HA	GLN	33	34.800	46.495	7.350	0.00	0.00
ATOM	531	CB	GLN	33	35.700	48.108	6.345	0.00	0.00
ATOM	532	HB2	GLN	33	35.500	48.539	5.865	0.00	0.00
ATOM	533	HB3	GLN	33	36.211	48.475	6.567	0.00	0.00
ATOM	534	CG	GLN	33	36.302	47.588	5.685	0.00	0.00
ATOM	535	HG2	GLN	33	36.498	47.365	5.876	0.00	0.00
ATOM	536	HG3	GLN	33	36.048	47.343	5.590	0.00	0.00
ATOM	537	CD	GLN	33	36.993	47.696	4.882	0.00	0.00
ATOM	538	OE1	GLN	33	37.227	47.802	4.526	0.00	0.00
ATOM	539	NE2	GLN	33	37.343	47.679	4.567	0.00	0.00
ATOM	540	1HE2	GLN	33	37.160	47.592	4.851	0.00	0.00
ATOM	541	2HE2	GLN	33	37.787	47.751	4.046	0.00	0.00
ATOM	542	C	GLN	33	34.993	48.038	8.749	0.00	0.00
ATOM	543	O	GLN	33	35.723	47.410	9.455	0.00	0.00
ATOM	544	N	ASP	34	34.394	49.108	9.197	0.00	0.00
ATOM	545	H	ASP	34	33.854	49.615	8.562	0.00	0.00
ATOM	546	CA	ASP	34	34.459	49.557	10.582	0.00	0.00
ATOM	547	HA	ASP	34	35.454	49.428	10.953	0.00	0.00
ATOM	548	CB	ASP	34	34.114	51.026	10.663	0.00	0.00
ATOM	549	HB2	ASP	34	33.195	51.195	10.188	0.00	0.00
ATOM	550	HB3	ASP	34	33.989	51.288	11.678	0.00	0.00
ATOM	551	CG	ASP	34	35.128	51.942	10.081	0.00	0.00
ATOM	552	OD1	ASP	34	35.429	52.406	9.822	0.00	0.00
ATOM	553	OD2	ASP	34	35.622	52.233	9.896	0.00	0.00
ATOM	554	C	ASP	34	33.547	48.754	11.504	0.00	0.00
ATOM	555	O	ASP	34	33.898	48.494	12.635	0.00	0.00
ATOM	556	N	THR	35	32.397	48.310	11.019	0.00	0.00
ATOM	557	H	THR	35	32.182	48.558	10.085	0.00	0.00
ATOM	558	CA	THR	35	31.401	47.564	11.793	0.00	0.00
ATOM	559	HA	THR	35	31.145	48.145	12.660	0.00	0.00
ATOM	560	CB	THR	35	30.127	47.342	10.987	0.00	0.00
ATOM	561	HB	THR	35	30.348	46.739	10.133	0.00	0.00
ATOM	562	CG2	THR	35	29.016	46.688	11.770	0.00	0.00
ATOM	563	1HG2	THR	35	28.709	46.560	11.928	0.00	0.00
ATOM	564	2HG2	THR	35	28.756	46.474	11.939	0.00	0.00
ATOM	565	3HG2	THR	35	28.767	46.544	12.005	0.00	0.00
ATOM	566	OG1	THR	35	29.609	48.558	10.548	0.00	0.00
ATOM	567	HG1	THR	35	30.182	48.913	9.925	0.00	0.00
ATOM	568	C	THR	35	31.936	46.232	12.296	0.00	0.00
ATOM	569	O	THR	35	31.603	45.826	13.391	0.00	0.00

ATOM	570	N	GLU	36	32.809	45.571	11.553	0.00	0.00
ATOM	571	H	GLU	36	33.050	45.942	10.665	0.00	0.00
ATOM	572	CA	GLU	36	33.479	44.359	12.014	0.00	0.00
ATOM	573	HA	GLU	36	32.731	43.677	12.376	0.00	0.00
ATOM	574	CB	GLU	36	34.197	43.684	10.861	0.00	0.00
ATOM	575	HB2	GLU	36	34.232	43.299	10.718	0.00	0.00
ATOM	576	HB3	GLU	36	34.185	43.693	10.455	0.00	0.00
ATOM	577	CG	GLU	36	34.869	43.465	10.432	0.00	0.00
ATOM	578	HG2	GLU	36	34.656	43.730	10.529	0.00	0.00
ATOM	579	HG3	GLU	36	34.905	43.530	10.633	0.00	0.00
ATOM	580	CD	GLU	36	35.775	42.781	9.601	0.00	0.00
ATOM	581	OE1	GLU	36	36.120	42.514	9.256	0.00	0.00
ATOM	582	OE2	GLU	36	36.142	42.481	9.296	0.00	0.00
ATOM	583	C	GLU	36	34.429	44.611	13.186	0.00	0.00
ATOM	584	O	GLU	36	34.505	43.806	14.089	0.00	0.00
ATOM	585	N	GLU	37	35.103	45.749	13.218	0.00	0.00
ATOM	586	H	GLU	37	34.950	46.401	12.489	0.00	0.00
ATOM	587	CA	GLU	37	35.985	46.140	14.312	0.00	0.00
ATOM	588	HA	GLU	37	36.578	45.283	14.591	0.00	0.00
ATOM	589	CB	GLU	37	36.920	47.252	13.844	0.00	0.00
ATOM	590	HB2	GLU	37	36.945	47.360	13.064	0.00	0.00
ATOM	591	HB3	GLU	37	36.734	47.983	14.090	0.00	0.00
ATOM	592	CG	GLU	37	38.077	47.281	14.074	0.00	0.00
ATOM	593	HG2	GLU	37	38.224	47.793	13.686	0.00	0.00
ATOM	594	HG3	GLU	37	38.090	47.542	14.666	0.00	0.00
ATOM	595	CD	GLU	37	39.022	46.303	14.006	0.00	0.00
ATOM	596	OE1	GLU	37	39.387	45.859	14.014	0.00	0.00
ATOM	597	OE2	GLU	37	39.373	45.923	13.936	0.00	0.00
ATOM	598	C	GLU	37	35.200	46.554	15.554	0.00	0.00
ATOM	599	O	GLU	37	35.563	46.180	16.653	0.00	0.00
ATOM	600	N	VAL	38	34.083	47.250	15.384	0.00	0.00
ATOM	601	H	VAL	38	33.866	47.546	14.462	0.00	0.00
ATOM	602	CA	VAL	38	33.139	47.564	16.460	0.00	0.00
ATOM	603	HA	VAL	38	33.678	48.052	17.256	0.00	0.00
ATOM	604	CB	VAL	38	32.037	48.520	15.982	0.00	0.00
ATOM	605	HB	VAL	38	31.571	48.112	15.146	0.00	0.00
ATOM	606	CG1	VAL	38	30.990	48.773	16.997	0.00	0.00
ATOM	607	1HG1	VAL	38	30.714	48.816	17.234	0.00	0.00
ATOM	608	2HG1	VAL	38	30.745	48.840	17.265	0.00	0.00
ATOM	609	3HG1	VAL	38	30.726	48.851	17.221	0.00	0.00
ATOM	610	CG2	VAL	38	32.569	49.846	15.599	0.00	0.00
ATOM	611	1HG2	VAL	38	32.686	50.169	15.487	0.00	0.00
ATOM	612	2HG2	VAL	38	32.690	50.183	15.514	0.00	0.00
ATOM	613	3HG2	VAL	38	32.712	50.164	15.497	0.00	0.00
ATOM	614	C	VAL	38	32.540	46.293	17.045	0.00	0.00
ATOM	615	O	VAL	38	32.529	46.142	18.253	0.00	0.00
ATOM	616	N	PHE	39	32.090	45.352	16.222	0.00	0.00
ATOM	617	H	PHE	39	32.125	45.527	15.242	0.00	0.00
ATOM	618	CA	PHE	39	31.447	44.125	16.684	0.00	0.00
ATOM	619	HA	PHE	39	30.689	44.401	17.397	0.00	0.00
ATOM	620	CB	PHE	39	30.749	43.428	15.528	0.00	0.00
ATOM	621	HB2	PHE	39	30.123	44.131	15.026	0.00	0.00
ATOM	622	HB3	PHE	39	31.475	43.101	14.822	0.00	0.00
ATOM	623	CG	PHE	39	29.901	42.263	15.941	0.00	0.00
ATOM	624	CD1	PHE	39	28.961	42.190	16.352	0.00	0.00
ATOM	625	HD1	PHE	39	28.841	42.955	16.369	0.00	0.00
ATOM	626	CE1	PHE	39	28.182	41.120	16.748	0.00	0.00
ATOM	627	HE1	PHE	39	27.470	41.071	17.066	0.00	0.00
ATOM	628	CZ	PHE	39	28.336	40.115	16.730	0.00	0.00
ATOM	629	HZ	PHE	39	27.746	39.294	17.031	0.00	0.00
ATOM	630	CE2	PHE	39	29.268	40.182	16.322	0.00	0.00
ATOM	631	HE2	PHE	39	29.390	39.415	16.310	0.00	0.00
ATOM	632	CD2	PHE	39	30.050	41.253	15.933	0.00	0.00
ATOM	633	HD2	PHE	39	30.768	41.296	15.634	0.00	0.00
ATOM	634	C	PHE	39	32.410	43.195	17.416	0.00	0.00
ATOM	635	O	PHE	39	32.088	42.738	18.501	0.00	0.00
ATOM	636	N	ARG	40	33.617	42.967	16.896	0.00	0.00
ATOM	637	H	ARG	40	33.833	43.368	16.010	0.00	0.00
ATOM	638	CA	ARG	40	34.642	42.167	17.582	0.00	0.00
ATOM	639	HA	ARG	40	34.221	41.204	17.829	0.00	0.00
ATOM	640	CB	ARG	40	35.853	41.953	16.674	0.00	0.00
ATOM	641	HB2	ARG	40	36.121	42.833	16.227	0.00	0.00
ATOM	642	HB3	ARG	40	36.645	41.640	17.242	0.00	0.00
ATOM	643	CG	ARG	40	35.645	40.943	15.636	0.00	0.00
ATOM	644	HG2	ARG	40	35.322	40.099	16.107	0.00	0.00
ATOM	645	HG3	ARG	40	34.893	41.250	15.022	0.00	0.00
ATOM	646	CD	ARG	40	36.867	40.592	14.812	0.00	0.00
ATOM	647	HD2	ARG	40	37.669	40.496	15.409	0.00	0.00
ATOM	648	HD3	ARG	40	36.717	39.693	14.392	0.00	0.00
ATOM	649	NE	ARG	40	37.164	41.463	13.766	0.00	0.00
ATOM	650	HE	ARG	40	36.804	41.290	12.988	0.00	0.00
ATOM	651	CZ	ARG	40	37.851	42.447	13.704	0.00	0.00
ATOM	652	NH1	ARG	40	38.440	42.787	14.604	0.00	0.00
ATOM	653	1HH1	ARG	40	38.508	42.233	15.349	0.00	0.00
ATOM	654	2HH1	ARG	40	38.896	43.571	14.521	0.00	0.00
ATOM	655	NH2	ARG	40	37.971	43.124	12.701	0.00	0.00
ATOM	656	1HH2	ARG	40	37.599	42.866	11.956	0.00	0.00
ATOM	657	2HH2	ARG	40	38.501	43.865	12.660	0.00	0.00
ATOM	658	C	ARG	40	35.053	42.776	18.917	0.00	0.00
ATOM	659	O	ARG	40	35.185	42.059	19.888	0.00	0.00
ATOM	660	N	SER	41	35.172	44.092	18.990	0.00	0.00
ATOM	661	H	SER	41	35.061	44.613	18.154	0.00	0.00
ATOM	662	CA	SER	41	35.451	44.808	20.234	0.00	0.00
ATOM	663	HA	SER	41	36.301	44.351	20.713	0.00	0.00
ATOM	664	CB	SER	41	35.810	46.255	19.953	0.00	0.00
ATOM	665	HB2	SER	41	35.156	46.720	19.547	0.00	0.00
ATOM	666	HB3	SER	41	35.993	46.723	20.704	0.00	0.00
ATOM	667	OG	SER	41	36.756	46.411	19.266	0.00	0.00
ATOM	668	HG	SER	41	36.515	46.404	18.479	0.00	0.00
ATOM	669	C	SER	41	34.295	44.736	21.225	0.00	0.00
ATOM	670	O	SER	41	34.518	44.501	22.393	0.00	0.00
ATOM	671	N	TYR	42	33.057	44.872	20.772	0.00	0.00
ATOM	672	H	TYR	42	32.930	45.076	19.808	0.00	0.00
ATOM	673	CA	TYR	42	31.862	44.734	21.598	0.00	0.00
ATOM	674	HA	TYR	42	31.931	45.429	22.421	0.00	0.00

ATOM	675	CB	TYR	42	30.633	45.103	20.770	0.00	0.00
ATOM	676	HB2	TYR	42	30.695	46.133	20.506	0.00	0.00
ATOM	677	HB3	TYR	42	30.652	44.549	19.862	0.00	0.00
ATOM	678	CG	TYR	42	29.306	44.872	21.424	0.00	0.00
ATOM	679	CD1	TYR	42	28.804	45.310	22.201	0.00	0.00
ATOM	680	HD1	TYR	42	29.365	45.802	22.339	0.00	0.00
ATOM	681	CE1	TYR	42	27.573	45.104	22.797	0.00	0.00
ATOM	682	HE1	TYR	42	27.184	45.440	23.384	0.00	0.00
ATOM	683	CZ	TYR	42	26.840	44.460	22.620	0.00	0.00
ATOM	684	OH	TYR	42	25.658	44.262	23.192	0.00	0.00
ATOM	685	HH	TYR	42	25.404	44.450	23.552	0.00	0.00
ATOM	686	CE2	TYR	42	27.342	44.022	21.844	0.00	0.00
ATOM	687	HE2	TYR	42	26.773	43.534	21.712	0.00	0.00
ATOM	688	CD2	TYR	42	28.572	44.225	21.246	0.00	0.00
ATOM	689	HD2	TYR	42	28.949	43.885	20.653	0.00	0.00
ATOM	690	C	TYR	42	31.743	43.338	22.205	0.00	0.00
ATOM	691	O	TYR	42	31.575	43.222	23.406	0.00	0.00
ATOM	692	N	VAL	43	31.909	42.281	21.414	0.00	0.00
ATOM	693	H	VAL	43	32.047	42.444	20.442	0.00	0.00
ATOM	694	CA	VAL	43	31.877	40.895	21.892	0.00	0.00
ATOM	695	HA	VAL	43	30.935	40.734	22.386	0.00	0.00
ATOM	696	CB	VAL	43	31.970	39.911	20.723	0.00	0.00
ATOM	697	HB	VAL	43	32.699	40.133	20.184	0.00	0.00
ATOM	698	CG1	VAL	43	32.134	38.612	21.042	0.00	0.00
ATOM	699	1HG1	VAL	43	32.253	38.297	21.110	0.00	0.00
ATOM	700	2HG1	VAL	43	32.132	38.301	21.176	0.00	0.00
ATOM	701	3HG1	VAL	43	32.152	38.281	21.058	0.00	0.00
ATOM	702	CG2	VAL	43	30.895	39.878	19.885	0.00	0.00
ATOM	703	1HG2	VAL	43	30.640	39.866	19.659	0.00	0.00
ATOM	704	2HG2	VAL	43	30.628	39.855	19.683	0.00	0.00
ATOM	705	3HG2	VAL	43	30.632	39.889	19.675	0.00	0.00
ATOM	706	C	VAL	43	32.953	40.638	22.939	0.00	0.00
ATOM	707	O	VAL	43	32.664	40.051	23.965	0.00	0.00
ATOM	708	N	PHE	44	34.167	41.126	22.730	0.00	0.00
ATOM	709	H	PHE	44	34.343	41.597	21.874	0.00	0.00
ATOM	710	CA	PHE	44	35.256	40.994	23.683	0.00	0.00
ATOM	711	HA	PHE	44	35.362	39.952	23.934	0.00	0.00
ATOM	712	CB	PHE	44	36.554	41.451	23.033	0.00	0.00
ATOM	713	HB2	PHE	44	36.722	40.880	22.167	0.00	0.00
ATOM	714	HB3	PHE	44	36.466	42.451	22.721	0.00	0.00
ATOM	715	CG	PHE	44	37.744	41.337	23.894	0.00	0.00
ATOM	716	CD1	PHE	44	38.383	40.279	24.024	0.00	0.00
ATOM	717	HD1	PHE	44	38.043	39.553	23.503	0.00	0.00
ATOM	718	CE1	PHE	44	39.468	40.170	24.828	0.00	0.00
ATOM	719	HE1	PHE	44	39.952	39.362	24.922	0.00	0.00
ATOM	720	CZ	PHE	44	39.919	41.116	25.507	0.00	0.00
ATOM	721	HZ	PHE	44	40.747	41.034	26.122	0.00	0.00
ATOM	722	CE2	PHE	44	39.289	42.175	25.379	0.00	0.00
ATOM	723	HE2	PHE	44	39.635	42.903	25.895	0.00	0.00
ATOM	724	CD2	PHE	44	38.205	42.288	24.574	0.00	0.00
ATOM	725	HD2	PHE	44	37.730	43.106	24.478	0.00	0.00
ATOM	726	C	PHE	44	34.981	41.731	24.990	0.00	0.00
ATOM	727	O	PHE	44	35.018	41.124	26.046	0.00	0.00
ATOM	728	N	TYR	45	34.658	43.017	24.942	0.00	0.00
ATOM	729	H	TYR	45	34.620	43.465	24.056	0.00	0.00
ATOM	730	CA	TYR	45	34.467	43.825	26.139	0.00	0.00
ATOM	731	HA	TYR	45	35.274	43.601	26.818	0.00	0.00
ATOM	732	CB	TYR	45	34.555	45.309	25.806	0.00	0.00
ATOM	733	HB2	TYR	45	33.982	45.528	24.992	0.00	0.00
ATOM	734	HB3	TYR	45	34.170	45.852	26.578	0.00	0.00
ATOM	735	CG	TYR	45	35.879	45.818	25.585	0.00	0.00
ATOM	736	CD1	TYR	45	36.738	45.783	26.502	0.00	0.00
ATOM	737	HD1	TYR	45	36.460	45.410	27.360	0.00	0.00
ATOM	738	CE1	TYR	45	37.963	46.236	26.304	0.00	0.00
ATOM	739	HE1	TYR	45	38.612	46.201	27.006	0.00	0.00
ATOM	740	CZ	TYR	45	38.337	46.735	25.188	0.00	0.00
ATOM	741	OH	TYR	45	39.509	47.180	24.996	0.00	0.00
ATOM	742	HH	TYR	45	40.014	47.062	25.637	0.00	0.00
ATOM	743	CE2	TYR	45	37.480	46.788	24.276	0.00	0.00
ATOM	744	HE2	TYR	45	37.769	47.180	23.432	0.00	0.00
ATOM	745	CD2	TYR	45	36.255	46.334	24.476	0.00	0.00
ATOM	746	HD2	TYR	45	35.602	46.386	23.778	0.00	0.00
ATOM	747	C	TYR	45	33.193	43.481	26.901	0.00	0.00
ATOM	748	O	TYR	45	33.216	43.475	28.115	0.00	0.00
ATOM	749	N	ARG	46	32.108	43.107	26.234	0.00	0.00
ATOM	750	H	ARG	46	32.133	43.133	25.242	0.00	0.00
ATOM	751	CA	ARG	46	30.888	42.644	26.897	0.00	0.00
ATOM	752	HA	ARG	46	30.655	43.351	27.673	0.00	0.00
ATOM	753	CB	ARG	46	29.731	42.617	25.905	0.00	0.00
ATOM	754	HB2	ARG	46	29.704	43.504	25.383	0.00	0.00
ATOM	755	HB3	ARG	46	29.881	41.867	25.216	0.00	0.00
ATOM	756	CG	ARG	46	28.395	42.407	26.476	0.00	0.00
ATOM	757	HG2	ARG	46	27.744	42.342	25.716	0.00	0.00
ATOM	758	HG3	ARG	46	28.394	41.517	26.946	0.00	0.00
ATOM	759	CD	ARG	46	27.899	43.451	27.401	0.00	0.00
ATOM	760	HD2	ARG	46	28.615	43.695	28.029	0.00	0.00
ATOM	761	HD3	ARG	46	27.664	44.272	26.901	0.00	0.00
ATOM	762	NE	ARG	46	26.792	43.066	28.104	0.00	0.00
ATOM	763	HE	ARG	46	26.114	42.819	27.686	0.00	0.00
ATOM	764	CZ	ARG	46	26.606	42.954	29.235	0.00	0.00
ATOM	765	NH1	ARG	46	27.359	43.276	29.909	0.00	0.00
ATOM	766	1HH1	ARG	46	28.086	43.703	29.594	0.00	0.00
ATOM	767	2HH1	ARG	46	27.155	43.177	30.761	0.00	0.00
ATOM	768	NH2	ARG	46	25.633	42.502	29.730	0.00	0.00
ATOM	769	1HH2	ARG	46	25.020	42.245	29.261	0.00	0.00
ATOM	770	2HH2	ARG	46	25.510	42.414	30.589	0.00	0.00
ATOM	771	C	ARG	46	31.100	41.312	27.604	0.00	0.00
ATOM	772	O	ARG	46	30.669	41.164	28.719	0.00	0.00
ATOM	773	N	HIP	47	31.846	40.391	27.028	0.00	0.00
ATOM	774	H	HIP	47	32.159	40.566	26.109	0.00	0.00
ATOM	775	CA	HIP	47	32.215	39.138	27.686	0.00	0.00
ATOM	776	HA	HIP	47	31.318	38.705	28.097	0.00	0.00
ATOM	777	CB	HIP	47	32.774	38.165	26.658	0.00	0.00
ATOM	778	HB2	HIP	47	32.071	38.060	25.860	0.00	0.00
ATOM	779	HB3	HIP	47	33.672	38.565	26.238	0.00	0.00

ATOM	780	CG	HIP	47	33.056	36.804	27.194	0.00	0.00
ATOM	781	ND1	HIP	47	32.407	36.029	27.834	0.00	0.00
ATOM	782	HD1	HIP	47	31.666	36.279	28.068	0.00	0.00
ATOM	783	CE1	HIP	47	32.948	34.892	28.138	0.00	0.00
ATOM	784	HE1	HIP	47	32.656	34.098	28.652	0.00	0.00
ATOM	785	NE2	HIP	47	33.917	34.920	27.707	0.00	0.00
ATOM	786	HE2	HIP	47	34.484	34.201	27.800	0.00	0.00
ATOM	787	CD2	HIP	47	33.999	36.113	27.119	0.00	0.00
ATOM	788	HD2	HIP	47	34.676	36.444	26.687	0.00	0.00
ATOM	789	C	HIP	47	33.156	39.343	28.866	0.00	0.00
ATOM	790	O	HIP	47	32.983	38.707	29.875	0.00	0.00
ATOM	791	N	GLN	48	34.091	40.274	28.791	0.00	0.00
ATOM	792	H	GLN	48	34.214	40.735	27.928	0.00	0.00
ATOM	793	CA	GLN	48	34.971	40.628	29.900	0.00	0.00
ATOM	794	HA	GLN	48	35.432	39.730	30.264	0.00	0.00
ATOM	795	CB	GLN	48	36.068	41.550	29.405	0.00	0.00
ATOM	796	HB2	GLN	48	36.279	41.470	28.683	0.00	0.00
ATOM	797	HB3	GLN	48	35.902	42.275	29.423	0.00	0.00
ATOM	798	CG	GLN	48	37.127	41.613	29.847	0.00	0.00
ATOM	799	HG2	GLN	48	37.002	41.708	30.204	0.00	0.00
ATOM	800	HG3	GLN	48	37.337	41.290	29.909	0.00	0.00
ATOM	801	CD	GLN	48	38.096	41.995	29.721	0.00	0.00
ATOM	802	OE1	GLN	48	38.285	42.285	29.498	0.00	0.00
ATOM	803	NE2	GLN	48	38.749	42.013	29.866	0.00	0.00
ATOM	804	1HE2	GLN	48	39.380	42.253	29.798	0.00	0.00
ATOM	805	2HE2	GLN	48	38.614	41.780	30.060	0.00	0.00
ATOM	806	C	GLN	48	34.213	41.235	31.074	0.00	0.00
ATOM	807	O	GLN	48	34.457	40.873	32.199	0.00	0.00
ATOM	808	N	GLN	49	33.251	42.099	30.827	0.00	0.00
ATOM	809	H	GLN	49	33.111	42.379	29.891	0.00	0.00
ATOM	810	CA	GLN	49	32.423	42.703	31.855	0.00	0.00
ATOM	811	HA	GLN	49	33.058	43.118	32.609	0.00	0.00
ATOM	812	CB	GLN	49	31.626	43.823	31.240	0.00	0.00
ATOM	813	HB2	GLN	49	31.550	43.917	30.696	0.00	0.00
ATOM	814	HB3	GLN	49	31.088	43.915	31.303	0.00	0.00
ATOM	815	CG	GLN	49	31.647	44.711	31.270	0.00	0.00
ATOM	816	HG2	GLN	49	31.701	44.824	31.726	0.00	0.00
ATOM	817	HG3	GLN	49	32.035	44.641	31.195	0.00	0.00
ATOM	818	CD	GLN	49	31.073	45.561	30.776	0.00	0.00
ATOM	819	OE1	GLN	49	30.645	45.647	30.337	0.00	0.00
ATOM	820	NE2	GLN	49	31.039	46.217	30.817	0.00	0.00
ATOM	821	1HE2	GLN	49	30.662	46.760	30.495	0.00	0.00
ATOM	822	2HE2	GLN	49	31.377	46.171	31.189	0.00	0.00
ATOM	823	C	GLN	49	31.521	41.707	32.552	0.00	0.00
ATOM	824	O	GLN	49	31.311	41.810	33.732	0.00	0.00
ATOM	825	N	GLU	50	31.027	40.712	31.859	0.00	0.00
ATOM	826	H	GLU	50	31.192	40.699	30.891	0.00	0.00
ATOM	827	CA	GLU	50	30.230	39.649	32.434	0.00	0.00
ATOM	828	HA	GLU	50	29.526	40.079	33.113	0.00	0.00
ATOM	829	CB	GLU	50	29.449	38.946	31.348	0.00	0.00
ATOM	830	HB2	GLU	50	29.749	38.971	30.656	0.00	0.00
ATOM	831	HB3	GLU	50	29.360	38.210	31.447	0.00	0.00
ATOM	832	CG	GLU	50	28.358	39.196	31.076	0.00	0.00
ATOM	833	HG2	GLU	50	28.129	39.222	31.705	0.00	0.00
ATOM	834	HG3	GLU	50	28.462	39.838	30.934	0.00	0.00
ATOM	835	CD	GLU	50	27.424	38.553	30.161	0.00	0.00
ATOM	836	OE1	GLU	50	26.892	38.363	29.927	0.00	0.00
ATOM	837	OE2	GLU	50	27.196	38.225	29.665	0.00	0.00
ATOM	838	C	GLU	50	31.048	38.673	33.248	0.00	0.00
ATOM	839	O	GLU	50	30.550	38.093	34.150	0.00	0.00
ATOM	840	N	GLN	51	32.311	38.526	32.988	0.00	0.00
ATOM	841	H	GLN	51	32.654	38.996	32.216	0.00	0.00
ATOM	842	CA	GLN	51	33.232	37.768	33.799	0.00	0.00
ATOM	843	HA	GLN	51	32.742	36.898	34.147	0.00	0.00
ATOM	844	CB	GLN	51	34.404	37.337	32.969	0.00	0.00
ATOM	845	HB2	GLN	51	34.701	38.006	32.428	0.00	0.00
ATOM	846	HB3	GLN	51	35.111	37.111	33.506	0.00	0.00
ATOM	847	CG	GLN	51	34.255	36.291	32.159	0.00	0.00
ATOM	848	HG2	GLN	51	33.974	35.724	32.572	0.00	0.00
ATOM	849	HG3	GLN	51	33.714	36.451	31.629	0.00	0.00
ATOM	850	CD	GLN	51	35.224	35.777	31.503	0.00	0.00
ATOM	851	OE1	GLN	51	35.640	35.832	31.183	0.00	0.00
ATOM	852	NE2	GLN	51	35.626	35.265	31.284	0.00	0.00
ATOM	853	1HE2	GLN	51	36.274	34.948	30.880	0.00	0.00
ATOM	854	2HE2	GLN	51	35.300	35.205	31.546	0.00	0.00
ATOM	855	C	GLN	51	33.684	38.519	35.028	0.00	0.00
ATOM	856	O	GLN	51	33.897	37.960	36.037	0.00	0.00
ATOM	857	N	GLU	52	33.777	39.784	34.983	0.00	0.00
ATOM	858	H	GLU	52	33.637	40.189	34.123	0.00	0.00
ATOM	859	CA	GLU	52	34.087	40.616	36.115	0.00	0.00
ATOM	860	HA	GLU	52	34.902	40.223	36.625	0.00	0.00
ATOM	861	CB	GLU	52	34.461	41.946	35.660	0.00	0.00
ATOM	862	HB2	GLU	52	34.565	42.040	35.049	0.00	0.00
ATOM	863	HB3	GLU	52	34.069	42.424	35.741	0.00	0.00
ATOM	864	CG	GLU	52	35.248	42.520	35.922	0.00	0.00
ATOM	865	HG2	GLU	52	35.142	42.438	36.473	0.00	0.00
ATOM	866	HG3	GLU	52	35.611	42.093	35.836	0.00	0.00
ATOM	867	CD	GLU	52	35.695	43.771	35.556	0.00	0.00
ATOM	868	OE1	GLU	52	35.873	44.268	35.366	0.00	0.00
ATOM	869	OE2	GLU	52	35.882	44.272	35.461	0.00	0.00
ATOM	870	C	GLU	52	33.000	40.686	37.096	0.00	0.00
ATOM	871	O	GLU	52	33.213	40.871	38.225	0.00	0.00
ATOM	872	N	ALA	53	31.840	40.468	36.693	0.00	0.00
ATOM	873	H	ALA	53	31.724	40.350	35.758	0.00	0.00
ATOM	874	CA	ALA	53	30.728	40.405	37.516	0.00	0.00
ATOM	875	HA	ALA	53	30.710	41.205	38.126	0.00	0.00
ATOM	876	CB	ALA	53	29.590	40.440	36.686	0.00	0.00
ATOM	877	HB1	ALA	53	29.308	40.462	36.498	0.00	0.00
ATOM	878	HB2	ALA	53	29.315	40.450	36.469	0.00	0.00
ATOM	879	HB3	ALA	53	29.313	40.438	36.500	0.00	0.00
ATOM	880	C	ALA	53	30.689	39.298	38.393	0.00	0.00
ATOM	881	O	ALA	53	30.003	39.286	39.307	0.00	0.00
ATOM	882	N	GLU	54	31.443	38.383	38.157	0.00	0.00
ATOM	883	H	GLU	54	31.960	38.434	37.379	0.00	0.00
ATOM	884	CA	GLU	54	31.603	37.324	38.975	0.00	0.00

ATOM	885	HA	GLU	54	30.794	37.183	39.520	0.00	0.00
ATOM	886	CB	GLU	54	31.779	36.220	38.195	0.00	0.00
ATOM	887	HB2	GLU	54	32.148	36.329	37.678	0.00	0.00
ATOM	888	HB3	GLU	54	32.074	35.726	38.498	0.00	0.00
ATOM	889	CG	GLU	54	31.064	35.612	37.702	0.00	0.00
ATOM	890	HG2	GLU	54	30.762	35.677	37.855	0.00	0.00
ATOM	891	HG3	GLU	54	31.053	35.797	37.429	0.00	0.00
ATOM	892	CD	GLU	54	30.778	34.658	37.362	0.00	0.00
ATOM	893	OE1	GLU	54	30.646	34.280	37.257	0.00	0.00
ATOM	894	OE2	GLU	54	30.674	34.271	37.196	0.00	0.00
ATOM	895	C	GLU	54	32.618	37.471	39.920	0.00	0.00
ATOM	896	O	GLU	54	32.884	36.691	40.620	0.00	0.00
ATOM	897	N	GLY	55	33.185	38.470	39.962	0.00	0.00
ATOM	898	H	GLY	55	32.930	39.074	39.365	0.00	0.00
ATOM	899	CA	GLY	55	34.121	38.761	40.844	0.00	0.00
ATOM	900	HA2	GLY	55	34.065	39.505	41.050	0.00	0.00
ATOM	901	HA3	GLY	55	33.996	38.343	41.514	0.00	0.00
ATOM	902	C	GLY	55	35.357	38.666	40.633	0.00	0.00
ATOM	903	O	GLY	55	35.914	38.809	41.358	0.00	0.00
ATOM	904	N	VAL	56	35.794	38.417	39.655	0.00	0.00
ATOM	905	H	VAL	56	35.287	38.332	39.103	0.00	0.00
ATOM	906	CA	VAL	56	36.974	38.285	39.311	0.00	0.00
ATOM	907	HA	VAL	56	37.321	38.214	40.040	0.00	0.00
ATOM	908	CB	VAL	56	37.190	37.368	38.691	0.00	0.00
ATOM	909	HB	VAL	56	37.619	37.504	38.342	0.00	0.00
ATOM	910	CG1	VAL	56	37.361	36.723	39.100	0.00	0.00
ATOM	911	1HG1	VAL	56	37.379	36.586	39.185	0.00	0.00
ATOM	912	2HG1	VAL	56	37.430	36.550	39.201	0.00	0.00
ATOM	913	3HG1	VAL	56	37.411	36.555	39.204	0.00	0.00
ATOM	914	CG2	VAL	56	36.698	36.862	38.125	0.00	0.00
ATOM	915	1HG2	VAL	56	36.587	36.726	37.955	0.00	0.00
ATOM	916	2HG2	VAL	56	36.579	36.728	38.002	0.00	0.00
ATOM	917	3HG2	VAL	56	36.577	36.754	37.996	0.00	0.00
ATOM	918	C	VAL	56	37.566	39.153	38.633	0.00	0.00
ATOM	919	O	VAL	56	37.118	39.631	38.014	0.00	0.00
ATOM	920	N	ALA	57	38.577	39.356	38.741	0.00	0.00
ATOM	921	H	ALA	57	38.894	38.940	39.265	0.00	0.00
ATOM	922	CA	ALA	57	39.272	40.128	38.114	0.00	0.00
ATOM	923	HA	ALA	57	38.728	40.781	37.928	0.00	0.00
ATOM	924	CB	ALA	57	40.097	40.520	38.907	0.00	0.00
ATOM	925	HB1	ALA	57	40.285	40.623	39.083	0.00	0.00
ATOM	926	HB2	ALA	57	40.295	40.618	39.106	0.00	0.00
ATOM	927	HB3	ALA	57	40.306	40.612	39.103	0.00	0.00
ATOM	928	C	ALA	57	39.877	39.711	36.941	0.00	0.00
ATOM	929	O	ALA	57	40.378	38.879	36.847	0.00	0.00
ATOM	930	N	ALA	58	39.839	40.294	36.054	0.00	0.00
ATOM	931	H	ALA	58	39.422	40.961	36.214	0.00	0.00
ATOM	932	CA	ALA	58	40.339	40.057	34.856	0.00	0.00
ATOM	933	HA	ALA	58	40.015	40.471	34.493	0.00	0.00
ATOM	934	CB	ALA	58	41.212	40.346	34.789	0.00	0.00
ATOM	935	HB1	ALA	58	41.472	40.405	34.785	0.00	0.00
ATOM	936	HB2	ALA	58	41.408	40.452	34.780	0.00	0.00
ATOM	937	HB3	ALA	58	41.388	40.395	34.745	0.00	0.00
ATOM	938	C	ALA	58	40.375	39.086	34.116	0.00	0.00
ATOM	939	O	ALA	58	41.089	38.746	33.716	0.00	0.00
ATOM	940	N	PRO	59	39.622	38.613	33.930	0.00	0.00
ATOM	941	CD	PRO	59	38.741	38.938	34.329	0.00	0.00
ATOM	942	HD2	PRO	59	38.591	39.533	33.964	0.00	0.00
ATOM	943	HD3	PRO	59	38.663	39.066	35.308	0.00	0.00
ATOM	944	CG	PRO	59	38.130	38.196	33.858	0.00	0.00
ATOM	945	HG2	PRO	59	37.888	38.337	33.121	0.00	0.00
ATOM	946	HG3	PRO	59	37.635	38.125	34.487	0.00	0.00
ATOM	947	CB	PRO	59	38.659	37.351	33.525	0.00	0.00
ATOM	948	HB2	PRO	59	38.618	37.031	34.224	0.00	0.00
ATOM	949	HB3	PRO	59	38.437	36.924	32.791	0.00	0.00
ATOM	950	CA	PRO	59	39.585	37.659	33.297	0.00	0.00
ATOM	951	HA	PRO	59	40.029	37.259	33.722	0.00	0.00
ATOM	952	C	PRO	59	39.809	37.515	31.915	0.00	0.00
ATOM	953	O	PRO	59	39.484	38.080	31.318	0.00	0.00
ATOM	954	N	ALA	60	40.334	36.735	31.397	0.00	0.00
ATOM	955	H	ALA	60	40.574	36.306	31.935	0.00	0.00
ATOM	956	CA	ALA	60	40.544	36.411	30.094	0.00	0.00
ATOM	957	HA	ALA	60	40.112	37.040	29.585	0.00	0.00
ATOM	958	CB	ALA	60	41.810	36.511	29.875	0.00	0.00
ATOM	959	HB1	ALA	60	42.107	36.566	29.830	0.00	0.00
ATOM	960	HB2	ALA	60	42.117	36.514	29.849	0.00	0.00
ATOM	961	HB3	ALA	60	42.123	36.527	29.779	0.00	0.00
ATOM	962	C	ALA	60	40.087	35.159	29.630	0.00	0.00
ATOM	963	O	ALA	60	40.127	34.388	30.261	0.00	0.00
ATOM	964	N	ASP	61	39.665	34.940	28.525	0.00	0.00
ATOM	965	H	ASP	61	39.659	35.601	28.054	0.00	0.00
ATOM	966	CA	ASP	61	39.218	33.774	27.959	0.00	0.00
ATOM	967	HA	ASP	61	38.955	33.187	28.720	0.00	0.00
ATOM	968	CB	ASP	61	38.043	34.021	27.166	0.00	0.00
ATOM	969	HB2	ASP	61	37.423	34.574	27.707	0.00	0.00
ATOM	970	HB3	ASP	61	38.267	34.522	26.358	0.00	0.00
ATOM	971	CG	ASP	61	37.379	32.860	26.758	0.00	0.00
ATOM	972	OD1	ASP	61	37.167	32.409	26.536	0.00	0.00
ATOM	973	OD2	ASP	61	37.062	32.395	26.670	0.00	0.00
ATOM	974	C	ASP	61	40.225	33.132	27.161	0.00	0.00
ATOM	975	O	ASP	61	40.770	33.721	26.405	0.00	0.00
ATOM	976	N	PRO	62	40.487	31.946	27.280	0.00	0.00
ATOM	977	CD	PRO	62	39.982	31.161	28.199	0.00	0.00
ATOM	978	HD2	PRO	62	39.070	30.959	27.984	0.00	0.00
ATOM	979	HD3	PRO	62	40.042	31.539	29.123	0.00	0.00
ATOM	980	CG	PRO	62	40.722	30.039	28.134	0.00	0.00
ATOM	981	HG2	PRO	62	40.251	29.404	27.959	0.00	0.00
ATOM	982	HG3	PRO	62	41.120	29.941	28.864	0.00	0.00
ATOM	983	CB	PRO	62	41.585	30.067	27.195	0.00	0.00
ATOM	984	HB2	PRO	62	42.363	29.923	27.564	0.00	0.00
ATOM	985	HB3	PRO	62	41.422	29.420	26.610	0.00	0.00
ATOM	986	CA	PRO	62	41.489	31.309	26.614	0.00	0.00
ATOM	987	HA	PRO	62	42.324	31.783	26.824	0.00	0.00
ATOM	988	C	PRO	62	41.358	31.190	25.169	0.00	0.00
ATOM	989	O	PRO	62	42.267	30.963	24.562	0.00	0.00

ATOM	990	N	GLU	63	40.262	31.337	24.601	0.00	0.00
ATOM	991	H	GLU	63	39.549	31.520	25.143	0.00	0.00
ATOM	992	CA	GLU	63	40.024	31.218	23.228	0.00	0.00
ATOM	993	HA	GLU	63	40.914	30.971	22.783	0.00	0.00
ATOM	994	CB	GLU	63	39.104	30.137	22.968	0.00	0.00
ATOM	995	HB2	GLU	63	38.531	30.080	23.512	0.00	0.00
ATOM	996	HB3	GLU	63	38.673	30.206	22.263	0.00	0.00
ATOM	997	CG	GLU	63	39.525	29.027	22.912	0.00	0.00
ATOM	998	HG2	GLU	63	39.956	29.024	22.792	0.00	0.00
ATOM	999	HG3	GLU	63	39.591	28.904	23.318	0.00	0.00
ATOM	1000	CD	GLU	63	39.264	28.081	22.468	0.00	0.00
ATOM	1001	OE1	GLU	63	39.167	27.712	22.289	0.00	0.00
ATOM	1002	OE2	GLU	63	39.162	27.687	22.292	0.00	0.00
ATOM	1003	C	GLU	63	39.567	32.457	22.569	0.00	0.00
ATOM	1004	O	GLU	63	39.725	32.601	21.461	0.00	0.00
ATOM	1005	N	MET	64	39.073	33.392	23.225	0.00	0.00
ATOM	1006	H	MET	64	38.945	33.222	24.124	0.00	0.00
ATOM	1007	CA	MET	64	38.677	34.635	22.671	0.00	0.00
ATOM	1008	HA	MET	64	38.229	34.462	21.757	0.00	0.00
ATOM	1009	CB	MET	64	37.660	35.282	23.494	0.00	0.00
ATOM	1010	HB2	MET	64	37.394	34.816	24.066	0.00	0.00
ATOM	1011	HB3	MET	64	37.926	35.912	23.880	0.00	0.00
ATOM	1012	CG	MET	64	36.617	35.714	23.021	0.00	0.00
ATOM	1013	HG2	MET	64	36.813	36.063	22.711	0.00	0.00
ATOM	1014	HG3	MET	64	36.472	35.337	22.722	0.00	0.00
ATOM	1015	SD	MET	64	35.297	36.296	23.396	0.00	0.00
ATOM	1016	CE	MET	64	34.167	35.493	23.301	0.00	0.00
ATOM	1017	HE1	MET	64	33.929	35.341	23.286	0.00	0.00
ATOM	1018	HE2	MET	64	33.935	35.331	23.270	0.00	0.00
ATOM	1019	HE3	MET	64	33.948	35.327	23.288	0.00	0.00
ATOM	1020	C	MET	64	39.818	35.508	22.407	0.00	0.00
ATOM	1021	O	MET	64	39.707	36.436	21.705	0.00	0.00
ATOM	1022	N	VAL	65	40.943	35.182	22.897	0.00	0.00
ATOM	1023	H	VAL	65	40.961	34.430	23.486	0.00	0.00
ATOM	1024	CA	VAL	65	42.160	35.813	22.598	0.00	0.00
ATOM	1025	HA	VAL	65	42.041	36.820	22.685	0.00	0.00
ATOM	1026	CB	VAL	65	43.162	35.392	23.530	0.00	0.00
ATOM	1027	HB	VAL	65	43.849	35.733	23.383	0.00	0.00
ATOM	1028	CG1	VAL	65	43.036	35.641	24.619	0.00	0.00
ATOM	1029	1HG1	VAL	65	43.036	35.702	24.902	0.00	0.00
ATOM	1030	2HG1	VAL	65	43.009	35.678	24.876	0.00	0.00
ATOM	1031	3HG1	VAL	65	42.990	35.733	24.876	0.00	0.00
ATOM	1032	CG2	VAL	65	43.426	34.296	23.626	0.00	0.00
ATOM	1033	1HG2	VAL	65	43.507	34.030	23.634	0.00	0.00
ATOM	1034	2HG2	VAL	65	43.525	34.017	23.684	0.00	0.00
ATOM	1035	3HG2	VAL	65	43.464	34.038	23.639	0.00	0.00
ATOM	1036	C	VAL	65	42.625	35.655	21.252	0.00	0.00
ATOM	1037	O	VAL	65	43.436	36.341	20.838	0.00	0.00
ATOM	1038	N	THR	66	42.096	34.790	20.545	0.00	0.00
ATOM	1039	H	THR	66	41.456	34.240	20.943	0.00	0.00
ATOM	1040	CA	THR	66	42.367	34.593	19.211	0.00	0.00
ATOM	1041	HA	THR	66	43.315	34.808	19.038	0.00	0.00
ATOM	1042	CB	THR	66	42.186	33.214	18.884	0.00	0.00
ATOM	1043	HB	THR	66	42.241	33.119	17.974	0.00	0.00
ATOM	1044	CG2	THR	66	43.025	32.357	19.412	0.00	0.00
ATOM	1045	1HG2	THR	66	43.226	32.136	19.519	0.00	0.00
ATOM	1046	2HG2	THR	66	43.246	32.158	19.534	0.00	0.00
ATOM	1047	3HG2	THR	66	43.224	32.142	19.546	0.00	0.00
ATOM	1048	OG1	THR	66	41.159	32.792	19.222	0.00	0.00
ATOM	1049	HG1	THR	66	41.073	32.414	19.612	0.00	0.00
ATOM	1050	C	THR	66	41.636	35.467	18.300	0.00	0.00
ATOM	1051	O	THR	66	41.908	35.519	17.203	0.00	0.00
ATOM	1052	N	LEU	67	40.726	36.177	18.732	0.00	0.00
ATOM	1053	H	LEU	67	40.560	36.103	19.637	0.00	0.00
ATOM	1054	CA	LEU	67	39.999	37.120	17.990	0.00	0.00
ATOM	1055	HA	LEU	67	39.767	36.668	17.111	0.00	0.00
ATOM	1056	CB	LEU	67	38.766	37.409	18.705	0.00	0.00
ATOM	1057	HB2	LEU	67	38.432	36.725	19.104	0.00	0.00
ATOM	1058	HB3	LEU	67	38.940	37.946	19.287	0.00	0.00
ATOM	1059	CG	LEU	67	37.740	37.896	18.173	0.00	0.00
ATOM	1060	HG	LEU	67	38.099	38.437	17.871	0.00	0.00
ATOM	1061	CD1	LEU	67	36.948	37.345	17.511	0.00	0.00
ATOM	1062	1HD1	LEU	67	36.768	37.195	17.320	0.00	0.00
ATOM	1063	2HD1	LEU	67	36.742	37.189	17.381	0.00	0.00
ATOM	1064	3HD1	LEU	67	36.754	37.243	17.343	0.00	0.00
ATOM	1065	CD2	LEU	67	36.953	38.220	18.736	0.00	0.00
ATOM	1066	1HD2	LEU	67	36.738	38.276	18.865	0.00	0.00
ATOM	1067	2HD2	LEU	67	36.780	38.298	18.877	0.00	0.00
ATOM	1068	3HD2	LEU	67	36.769	38.332	18.881	0.00	0.00
ATOM	1069	C	LEU	67	40.778	38.370	17.731	0.00	0.00
ATOM	1070	O	LEU	67	41.291	38.905	18.622	0.00	0.00
ATOM	1071	N	PRO	68	40.876	38.870	16.562	0.00	0.00
ATOM	1072	CD	PRO	68	40.460	38.274	15.398	0.00	0.00
ATOM	1073	HD2	PRO	68	39.468	38.298	15.319	0.00	0.00
ATOM	1074	HD3	PRO	68	40.780	37.300	15.326	0.00	0.00
ATOM	1075	CG	PRO	68	41.025	39.060	14.361	0.00	0.00
ATOM	1076	HG2	PRO	68	40.395	39.343	13.815	0.00	0.00
ATOM	1077	HG3	PRO	68	41.628	38.577	13.914	0.00	0.00
ATOM	1078	CB	PRO	68	41.638	40.159	14.865	0.00	0.00
ATOM	1079	HB2	PRO	68	42.493	40.147	14.557	0.00	0.00
ATOM	1080	HB3	PRO	68	41.225	40.927	14.561	0.00	0.00
ATOM	1081	CA	PRO	68	41.572	40.073	16.290	0.00	0.00
ATOM	1082	HA	PRO	68	42.518	39.974	16.646	0.00	0.00
ATOM	1083	C	PRO	68	40.967	41.289	16.884	0.00	0.00
ATOM	1084	O	PRO	68	39.846	41.487	16.785	0.00	0.00
ATOM	1085	N	LEU	69	41.713	42.110	17.493	0.00	0.00
ATOM	1086	H	LEU	69	42.612	41.885	17.523	0.00	0.00
ATOM	1087	CA	LEU	69	41.332	43.300	18.149	0.00	0.00
ATOM	1088	HA	LEU	69	40.501	43.673	17.692	0.00	0.00
ATOM	1089	CB	LEU	69	41.005	42.985	19.509	0.00	0.00
ATOM	1090	HB2	LEU	69	40.981	42.466	19.625	0.00	0.00
ATOM	1091	HB3	LEU	69	41.358	43.137	19.887	0.00	0.00
ATOM	1092	CG	LEU	69	40.261	43.148	20.243	0.00	0.00
ATOM	1093	HG	LEU	69	40.555	43.289	20.033	0.00	0.00
ATOM	1094	CD1	LEU	69	39.567	43.169	20.704	0.00	0.00

ATOM	1095	1HD1	LEU	69	39.423	43.205	20.777	0.00	0.00
ATOM	1096	2HD1	LEU	69	39.425	43.189	20.846	0.00	0.00
ATOM	1097	3HD1	LEU	69	39.347	43.129	20.826	0.00	0.00
ATOM	1098	CD2	LEU	69	39.790	43.092	20.878	0.00	0.00
ATOM	1099	1HD2	LEU	69	39.678	43.101	21.073	0.00	0.00
ATOM	1100	2HD2	LEU	69	39.689	43.086	20.971	0.00	0.00
ATOM	1101	3HD2	LEU	69	39.663	43.047	21.053	0.00	0.00
ATOM	1102	C	LEU	69	42.389	44.341	18.101	0.00	0.00
ATOM	1103	O	LEU	69	43.493	44.041	18.172	0.00	0.00
ATOM	1104	N	GLN	70	42.056	45.565	18.038	0.00	0.00
ATOM	1105	H	GLN	70	41.141	45.731	17.937	0.00	0.00
ATOM	1106	CA	GLN	70	42.916	46.691	18.139	0.00	0.00
ATOM	1107	HA	GLN	70	43.857	46.360	18.338	0.00	0.00
ATOM	1108	CB	GLN	70	42.968	47.394	16.875	0.00	0.00
ATOM	1109	HB2	GLN	70	42.342	47.459	16.602	0.00	0.00
ATOM	1110	HB3	GLN	70	43.214	48.093	16.873	0.00	0.00
ATOM	1111	CG	GLN	70	43.550	47.094	15.962	0.00	0.00
ATOM	1112	HG2	GLN	70	43.972	46.788	15.992	0.00	0.00
ATOM	1113	HG3	GLN	70	43.255	46.823	15.726	0.00	0.00
ATOM	1114	CD	GLN	70	43.966	47.576	15.295	0.00	0.00
ATOM	1115	OE1	GLN	70	44.310	48.057	15.358	0.00	0.00
ATOM	1116	NE2	GLN	70	43.955	47.473	14.633	0.00	0.00
ATOM	1117	1HE2	GLN	70	43.675	47.083	14.567	0.00	0.00
ATOM	1118	2HE2	GLN	70	44.231	47.788	14.197	0.00	0.00
ATOM	1119	C	GLN	70	42.518	47.597	19.234	0.00	0.00
ATOM	1120	O	GLN	70	41.762	48.442	19.068	0.00	0.00
ATOM	1121	N	PRO	71	42.985	47.448	20.358	0.00	0.00
ATOM	1122	CD	PRO	71	43.894	46.504	20.700	0.00	0.00
ATOM	1123	HD2	PRO	71	44.746	46.704	20.340	0.00	0.00
ATOM	1124	HD3	PRO	71	43.659	45.569	20.423	0.00	0.00
ATOM	1125	CG	PRO	71	43.954	46.586	22.037	0.00	0.00
ATOM	1126	HG2	PRO	71	44.700	46.775	22.290	0.00	0.00
ATOM	1127	HG3	PRO	71	43.736	45.852	22.330	0.00	0.00
ATOM	1128	CB	PRO	71	43.182	47.530	22.518	0.00	0.00
ATOM	1129	HB2	PRO	71	42.632	47.146	23.047	0.00	0.00
ATOM	1130	HB3	PRO	71	43.667	48.113	22.990	0.00	0.00
ATOM	1131	CA	PRO	71	42.522	48.138	21.462	0.00	0.00
ATOM	1132	HA	PRO	71	41.558	47.958	21.545	0.00	0.00
ATOM	1133	C	PRO	71	42.683	49.596	21.502	0.00	0.00
ATOM	1134	O	PRO	71	42.017	50.265	22.147	0.00	0.00
ATOM	1135	N	SER	72	43.532	50.101	20.809	0.00	0.00
ATOM	1136	H	SER	72	44.063	49.505	20.314	0.00	0.00
ATOM	1137	CA	SER	72	43.760	51.480	20.722	0.00	0.00
ATOM	1138	HA	SER	72	43.416	51.933	21.554	0.00	0.00
ATOM	1139	CB	SER	72	45.143	51.697	20.672	0.00	0.00
ATOM	1140	HB2	SER	72	45.463	51.783	20.126	0.00	0.00
ATOM	1141	HB3	SER	72	45.424	52.213	20.939	0.00	0.00
ATOM	1142	OG	SER	72	45.667	51.145	20.991	0.00	0.00
ATOM	1143	HG	SER	72	46.093	51.116	21.045	0.00	0.00
ATOM	1144	C	SER	72	43.092	52.172	19.631	0.00	0.00
ATOM	1145	O	SER	72	43.246	53.254	19.447	0.00	0.00
ATOM	1146	N	SER	73	42.344	51.574	18.908	0.00	0.00
ATOM	1147	H	SER	73	42.244	50.696	19.119	0.00	0.00
ATOM	1148	CA	SER	73	41.604	52.137	17.854	0.00	0.00
ATOM	1149	HA	SER	73	42.177	52.846	17.395	0.00	0.00
ATOM	1150	CB	SER	73	41.323	51.100	16.890	0.00	0.00
ATOM	1151	HB2	SER	73	41.328	51.221	16.218	0.00	0.00
ATOM	1152	HB3	SER	73	41.739	50.612	16.879	0.00	0.00
ATOM	1153	OG	SER	73	40.525	50.619	16.841	0.00	0.00
ATOM	1154	HG	SER	73	40.746	50.070	16.845	0.00	0.00
ATOM	1155	C	SER	73	40.366	52.830	18.277	0.00	0.00
ATOM	1156	O	SER	73	39.801	52.494	19.264	0.00	0.00
ATOM	1157	N	THR	74	39.896	53.772	17.510	0.00	0.00
ATOM	1158	H	THR	74	40.390	54.008	16.716	0.00	0.00
ATOM	1159	CA	THR	74	38.658	54.467	17.752	0.00	0.00
ATOM	1160	HA	THR	74	38.696	54.883	18.721	0.00	0.00
ATOM	1161	CB	THR	74	38.473	55.594	16.783	0.00	0.00
ATOM	1162	HB	THR	74	37.842	55.647	16.485	0.00	0.00
ATOM	1163	CG2	THR	74	38.589	56.616	17.018	0.00	0.00
ATOM	1164	1HG2	THR	74	38.599	56.871	17.065	0.00	0.00
ATOM	1165	2HG2	THR	74	38.622	56.882	17.069	0.00	0.00
ATOM	1166	3HG2	THR	74	38.617	56.851	17.090	0.00	0.00
ATOM	1167	OG1	THR	74	39.005	55.674	16.005	0.00	0.00
ATOM	1168	HG1	THR	74	39.066	56.065	15.586	0.00	0.00
ATOM	1169	C	THR	74	37.458	53.554	17.717	0.00	0.00
ATOM	1170	O	THR	74	36.569	53.703	18.513	0.00	0.00
ATOM	1171	N	MET	75	37.448	52.556	16.864	0.00	0.00
ATOM	1172	H	MET	75	38.200	52.487	16.238	0.00	0.00
ATOM	1173	CA	MET	75	36.386	51.568	16.789	0.00	0.00
ATOM	1174	HA	MET	75	35.448	52.077	16.822	0.00	0.00
ATOM	1175	CB	MET	75	36.462	50.831	15.475	0.00	0.00
ATOM	1176	HB2	MET	75	37.388	50.338	15.398	0.00	0.00
ATOM	1177	HB3	MET	75	35.701	50.095	15.455	0.00	0.00
ATOM	1178	CG	MET	75	36.300	51.719	14.283	0.00	0.00
ATOM	1179	HG2	MET	75	37.015	52.172	14.138	0.00	0.00
ATOM	1180	HG3	MET	75	36.185	51.275	13.540	0.00	0.00
ATOM	1181	SD	MET	75	35.204	52.745	14.193	0.00	0.00
ATOM	1182	CE	MET	75	35.673	53.753	13.263	0.00	0.00
ATOM	1183	HE1	MET	75	35.776	53.953	13.079	0.00	0.00
ATOM	1184	HE2	MET	75	35.761	53.960	13.064	0.00	0.00
ATOM	1185	HE3	MET	75	35.764	53.961	13.084	0.00	0.00
ATOM	1186	C	MET	75	36.385	50.607	17.967	0.00	0.00
ATOM	1187	O	MET	75	35.337	50.190	18.417	0.00	0.00
ATOM	1188	N	GLY	76	37.539	50.331	18.537	0.00	0.00
ATOM	1189	H	GLY	76	38.361	50.681	18.113	0.00	0.00
ATOM	1190	CA	GLY	76	37.664	49.637	19.799	0.00	0.00
ATOM	1191	HA2	GLY	76	37.205	48.680	19.733	0.00	0.00
ATOM	1192	HA3	GLY	76	38.698	49.507	20.006	0.00	0.00
ATOM	1193	C	GLY	76	37.036	50.381	20.953	0.00	0.00
ATOM	1194	O	GLY	76	36.322	49.795	21.737	0.00	0.00
ATOM	1195	N	GLN	77	37.213	51.687	21.010	0.00	0.00
ATOM	1196	H	GLN	77	37.817	52.098	20.345	0.00	0.00
ATOM	1197	CA	GLN	77	36.595	52.546	22.001	0.00	0.00
ATOM	1198	HA	GLN	77	36.764	52.112	22.963	0.00	0.00
ATOM	1199	CB	GLN	77	37.257	53.909	21.977	0.00	0.00

ATOM	1200	HB2	GLN	77	37.704	54.092	21.522	0.00	0.00
ATOM	1201	HB3	GLN	77	36.912	54.453	21.898	0.00	0.00
ATOM	1202	CG	GLN	77	37.791	54.325	22.671	0.00	0.00
ATOM	1203	HG2	GLN	77	37.883	54.386	22.808	0.00	0.00
ATOM	1204	HG3	GLN	77	37.796	54.267	22.616	0.00	0.00
ATOM	1205	CD	GLN	77	38.211	54.775	23.252	0.00	0.00
ATOM	1206	OE1	GLN	77	38.219	54.946	23.447	0.00	0.00
ATOM	1207	NE2	GLN	77	38.573	54.987	23.554	0.00	0.00
ATOM	1208	1HE2	GLN	77	38.849	55.285	23.933	0.00	0.00
ATOM	1209	2HE2	GLN	77	38.578	54.856	23.407	0.00	0.00
ATOM	1210	C	GLN	77	35.089	52.646	21.839	0.00	0.00
ATOM	1211	O	GLN	77	34.387	52.621	22.823	0.00	0.00
ATOM	1212	N	VAL	78	34.569	52.675	20.626	0.00	0.00
ATOM	1213	H	VAL	78	35.187	52.737	19.860	0.00	0.00
ATOM	1214	CA	VAL	78	33.132	52.591	20.370	0.00	0.00
ATOM	1215	HA	VAL	78	32.641	53.336	20.960	0.00	0.00
ATOM	1216	CB	VAL	78	32.805	52.874	18.914	0.00	0.00
ATOM	1217	HB	VAL	78	33.315	52.287	18.369	0.00	0.00
ATOM	1218	CG1	VAL	78	31.487	52.706	18.547	0.00	0.00
ATOM	1219	1HG1	VAL	78	31.152	52.693	18.488	0.00	0.00
ATOM	1220	2HG1	VAL	78	31.185	52.673	18.419	0.00	0.00
ATOM	1221	3HG1	VAL	78	31.157	52.625	18.443	0.00	0.00
ATOM	1222	CG2	VAL	78	33.089	54.162	18.483	0.00	0.00
ATOM	1223	1HG2	VAL	78	33.145	54.488	18.384	0.00	0.00
ATOM	1224	2HG2	VAL	78	33.184	54.468	18.372	0.00	0.00
ATOM	1225	3HG2	VAL	78	33.153	54.471	18.364	0.00	0.00
ATOM	1226	C	VAL	78	32.570	51.252	20.821	0.00	0.00
ATOM	1227	O	VAL	78	31.555	51.219	21.484	0.00	0.00
ATOM	1228	N	GLY	79	33.255	50.152	20.556	0.00	0.00
ATOM	1229	H	GLY	79	34.068	50.235	19.994	0.00	0.00
ATOM	1230	CA	GLY	79	32.885	48.833	21.046	0.00	0.00
ATOM	1231	HA2	GLY	79	31.927	48.566	20.666	0.00	0.00
ATOM	1232	HA3	GLY	79	33.597	48.130	20.684	0.00	0.00
ATOM	1233	C	GLY	79	32.844	48.726	22.558	0.00	0.00
ATOM	1234	O	GLY	79	31.928	48.145	23.098	0.00	0.00
ATOM	1235	N	ARG	80	33.779	49.352	23.255	0.00	0.00
ATOM	1236	H	ARG	80	34.513	49.777	22.746	0.00	0.00
ATOM	1237	CA	ARG	80	33.800	49.443	24.711	0.00	0.00
ATOM	1238	HA	ARG	80	33.654	48.457	25.115	0.00	0.00
ATOM	1239	CB	ARG	80	35.157	49.949	25.159	0.00	0.00
ATOM	1240	HB2	ARG	80	35.786	49.647	24.689	0.00	0.00
ATOM	1241	HB3	ARG	80	35.246	50.785	25.097	0.00	0.00
ATOM	1242	CG	ARG	80	35.574	49.720	26.318	0.00	0.00
ATOM	1243	HG2	ARG	80	35.089	50.007	26.779	0.00	0.00
ATOM	1244	HG3	ARG	80	35.464	49.009	26.386	0.00	0.00
ATOM	1245	CD	ARG	80	36.809	50.062	26.769	0.00	0.00
ATOM	1246	HD2	ARG	80	37.051	50.019	26.794	0.00	0.00
ATOM	1247	HD3	ARG	80	37.066	50.224	26.751	0.00	0.00
ATOM	1248	NE	ARG	80	37.339	50.226	27.204	0.00	0.00
ATOM	1249	HE	ARG	80	37.177	50.149	27.395	0.00	0.00
ATOM	1250	CZ	ARG	80	38.031	50.464	27.385	0.00	0.00
ATOM	1251	NH1	ARG	80	38.433	50.571	27.767	0.00	0.00
ATOM	1252	1HH1	ARG	80	38.223	50.472	27.927	0.00	0.00
ATOM	1253	2HH1	ARG	80	38.955	50.751	27.904	0.00	0.00
ATOM	1254	NH2	ARG	80	38.341	50.603	27.198	0.00	0.00
ATOM	1255	1HH2	ARG	80	38.070	50.546	26.922	0.00	0.00
ATOM	1256	2HH2	ARG	80	38.873	50.784	27.358	0.00	0.00
ATOM	1257	C	ARG	80	32.671	50.289	25.260	0.00	0.00
ATOM	1258	O	ARG	80	32.041	49.888	26.209	0.00	0.00
ATOM	1259	N	GLN	81	32.362	51.409	24.639	0.00	0.00
ATOM	1260	H	GLN	81	32.927	51.682	23.875	0.00	0.00
ATOM	1261	CA	GLN	81	31.260	52.272	25.027	0.00	0.00
ATOM	1262	HA	GLN	81	31.323	52.445	26.082	0.00	0.00
ATOM	1263	CB	GLN	81	31.387	53.611	24.326	0.00	0.00
ATOM	1264	HB2	GLN	81	31.800	53.638	23.661	0.00	0.00
ATOM	1265	HB3	GLN	81	30.728	53.929	24.083	0.00	0.00
ATOM	1266	CG	GLN	81	31.836	54.510	24.849	0.00	0.00
ATOM	1267	HG2	GLN	81	31.748	54.580	25.191	0.00	0.00
ATOM	1268	HG3	GLN	81	32.163	54.378	24.891	0.00	0.00
ATOM	1269	CD	GLN	81	31.969	55.514	24.857	0.00	0.00
ATOM	1270	OE1	GLN	81	32.030	55.792	24.672	0.00	0.00
ATOM	1271	NE2	GLN	81	32.018	56.100	25.073	0.00	0.00
ATOM	1272	1HE2	GLN	81	32.103	56.752	25.075	0.00	0.00
ATOM	1273	2HE2	GLN	81	31.973	55.897	25.236	0.00	0.00
ATOM	1274	C	GLN	81	29.904	51.634	24.778	0.00	0.00
ATOM	1275	O	GLN	81	29.015	51.814	25.553	0.00	0.00
ATOM	1276	N	LEU	82	29.751	50.830	23.754	0.00	0.00
ATOM	1277	H	LEU	82	30.491	50.771	23.114	0.00	0.00
ATOM	1278	CA	LEU	82	28.562	50.035	23.510	0.00	0.00
ATOM	1279	HA	LEU	82	27.706	50.662	23.650	0.00	0.00
ATOM	1280	CB	LEU	82	28.583	49.553	22.071	0.00	0.00
ATOM	1281	HB2	LEU	82	29.228	49.661	21.702	0.00	0.00
ATOM	1282	HB3	LEU	82	28.498	48.814	21.981	0.00	0.00
ATOM	1283	CG	LEU	82	27.880	49.884	21.217	0.00	0.00
ATOM	1284	HG	LEU	82	28.120	49.987	21.506	0.00	0.00
ATOM	1285	CD1	LEU	82	27.526	49.964	20.480	0.00	0.00
ATOM	1286	1HD1	LEU	82	27.477	49.963	20.344	0.00	0.00
ATOM	1287	2HD1	LEU	82	27.411	49.985	20.282	0.00	0.00
ATOM	1288	3HD1	LEU	82	27.437	50.001	20.279	0.00	0.00
ATOM	1289	CD2	LEU	82	27.199	49.978	20.634	0.00	0.00
ATOM	1290	1HD2	LEU	82	27.031	50.009	20.489	0.00	0.00
ATOM	1291	2HD2	LEU	82	27.034	49.999	20.503	0.00	0.00
ATOM	1292	3HD2	LEU	82	27.038	49.997	20.484	0.00	0.00
ATOM	1293	C	LEU	82	28.413	48.884	24.500	0.00	0.00
ATOM	1294	O	LEU	82	27.317	48.551	24.875	0.00	0.00
ATOM	1295	N	ALA	83	29.492	48.310	24.975	0.00	0.00
ATOM	1296	H	ALA	83	30.361	48.588	24.605	0.00	0.00
ATOM	1297	CA	ALA	83	29.471	47.269	25.981	0.00	0.00
ATOM	1298	HA	ALA	83	28.746	46.536	25.700	0.00	0.00
ATOM	1299	CB	ALA	83	30.814	46.589	26.000	0.00	0.00
ATOM	1300	HB1	ALA	83	31.135	46.408	26.085	0.00	0.00
ATOM	1301	HB2	ALA	83	31.104	46.368	25.960	0.00	0.00
ATOM	1302	HB3	ALA	83	31.169	46.483	25.980	0.00	0.00
ATOM	1303	C	ALA	83	29.063	47.763	27.356	0.00	0.00
ATOM	1304	O	ALA	83	28.357	47.075	28.055	0.00	0.00

ATOM	1305	N	ILE	84	29.440	48.961	27.732	0.00	0.00
ATOM	1306	H	ILE	84	30.034	49.466	27.127	0.00	0.00
ATOM	1307	CA	ILE	84	29.106	49.528	29.013	0.00	0.00
ATOM	1308	HA	ILE	84	29.278	48.789	29.733	0.00	0.00
ATOM	1309	CB	ILE	84	30.004	50.690	29.331	0.00	0.00
ATOM	1310	HB	ILE	84	30.336	50.838	29.028	0.00	0.00
ATOM	1311	CG2	ILE	84	29.901	51.440	29.484	0.00	0.00
ATOM	1312	1HG2	ILE	84	29.888	51.632	29.526	0.00	0.00
ATOM	1313	2HG2	ILE	84	29.878	51.640	29.525	0.00	0.00
ATOM	1314	3HG2	ILE	84	29.871	51.613	29.514	0.00	0.00
ATOM	1315	CG1	ILE	84	30.614	50.914	29.909	0.00	0.00
ATOM	1316	2HG1	ILE	84	30.822	51.011	30.028	0.00	0.00
ATOM	1317	3HG1	ILE	84	30.339	50.822	29.872	0.00	0.00
ATOM	1318	CD1	ILE	84	31.352	51.141	30.380	0.00	0.00
ATOM	1319	1HD1	ILE	84	31.516	51.193	30.519	0.00	0.00
ATOM	1320	2HD1	ILE	84	31.546	51.178	30.469	0.00	0.00
ATOM	1321	3HD1	ILE	84	31.537	51.220	30.499	0.00	0.00
ATOM	1322	C	ILE	84	27.666	49.853	29.149	0.00	0.00
ATOM	1323	O	ILE	84	27.140	49.759	30.204	0.00	0.00
ATOM	1324	N	ILE	85	26.992	50.144	28.090	0.00	0.00
ATOM	1325	H	ILE	85	27.477	50.236	27.259	0.00	0.00
ATOM	1326	CA	ILE	85	25.572	50.271	28.071	0.00	0.00
ATOM	1327	HA	ILE	85	25.278	50.881	28.867	0.00	0.00
ATOM	1328	CB	ILE	85	25.131	50.942	26.828	0.00	0.00
ATOM	1329	HB	ILE	85	25.242	50.706	26.434	0.00	0.00
ATOM	1330	CG2	ILE	85	24.391	51.166	26.524	0.00	0.00
ATOM	1331	1HG2	ILE	85	24.218	51.209	26.434	0.00	0.00
ATOM	1332	2HG2	ILE	85	24.193	51.241	26.432	0.00	0.00
ATOM	1333	3HG2	ILE	85	24.212	51.210	26.476	0.00	0.00
ATOM	1334	CG1	ILE	85	25.273	51.735	26.417	0.00	0.00
ATOM	1335	2HG1	ILE	85	25.217	51.994	26.644	0.00	0.00
ATOM	1336	3HG1	ILE	85	25.688	51.604	26.594	0.00	0.00
ATOM	1337	CD1	ILE	85	24.961	52.381	25.460	0.00	0.00
ATOM	1338	1HD1	ILE	85	24.895	52.527	25.221	0.00	0.00
ATOM	1339	2HD1	ILE	85	24.878	52.530	25.233	0.00	0.00
ATOM	1340	3HD1	ILE	85	24.893	52.565	25.231	0.00	0.00
ATOM	1341	C	ILE	85	24.905	48.958	28.305	0.00	0.00
ATOM	1342	O	ILE	85	23.872	48.918	28.898	0.00	0.00
ATOM	1343	N	GLY	86	25.526	47.876	27.927	0.00	0.00
ATOM	1344	H	GLY	86	26.365	47.978	27.441	0.00	0.00
ATOM	1345	CA	GLY	86	25.095	46.551	28.196	0.00	0.00
ATOM	1346	HA2	GLY	86	24.172	46.411	27.795	0.00	0.00
ATOM	1347	HA3	GLY	86	25.751	45.902	27.733	0.00	0.00
ATOM	1348	C	GLY	86	25.016	46.168	29.614	0.00	0.00
ATOM	1349	O	GLY	86	24.338	45.296	29.930	0.00	0.00
ATOM	1350	N	ASP	87	25.671	46.834	30.475	0.00	0.00
ATOM	1351	H	ASP	87	26.228	47.512	30.144	0.00	0.00
ATOM	1352	CA	ASP	87	25.588	46.683	31.874	0.00	0.00
ATOM	1353	HA	ASP	87	25.420	45.685	32.106	0.00	0.00
ATOM	1354	CB	ASP	87	26.867	47.035	32.464	0.00	0.00
ATOM	1355	HB2	ASP	87	27.601	46.510	32.014	0.00	0.00
ATOM	1356	HB3	ASP	87	27.039	48.019	32.298	0.00	0.00
ATOM	1357	CG	ASP	87	26.951	46.760	33.874	0.00	0.00
ATOM	1358	OD1	ASP	87	26.982	46.547	34.408	0.00	0.00
ATOM	1359	OD2	ASP	87	27.014	46.753	34.451	0.00	0.00
ATOM	1360	C	ASP	87	24.487	47.467	32.453	0.00	0.00
ATOM	1361	O	ASP	87	23.959	47.098	33.406	0.00	0.00
ATOM	1362	N	ASP	88	24.101	48.524	31.867	0.00	0.00
ATOM	1363	H	ASP	88	24.560	48.769	31.081	0.00	0.00
ATOM	1364	CA	ASP	88	23.062	49.353	32.305	0.00	0.00
ATOM	1365	HA	ASP	88	23.114	49.390	33.339	0.00	0.00
ATOM	1366	CB	ASP	88	23.264	50.712	31.770	0.00	0.00
ATOM	1367	HB2	ASP	88	24.225	50.960	31.892	0.00	0.00
ATOM	1368	HB3	ASP	88	23.060	50.738	30.784	0.00	0.00
ATOM	1369	CG	ASP	88	22.476	51.716	32.402	0.00	0.00
ATOM	1370	OD1	ASP	88	22.195	52.146	32.604	0.00	0.00
ATOM	1371	OD2	ASP	88	22.160	52.113	32.700	0.00	0.00
ATOM	1372	C	ASP	88	21.733	48.845	31.953	0.00	0.00
ATOM	1373	O	ASP	88	20.849	48.994	32.676	0.00	0.00
ATOM	1374	N	ILE	89	21.599	48.186	30.885	0.00	0.00
ATOM	1375	H	ILE	89	22.361	48.128	30.329	0.00	0.00
ATOM	1376	CA	ILE	89	20.419	47.537	30.463	0.00	0.00
ATOM	1377	HA	ILE	89	19.671	47.849	31.004	0.00	0.00
ATOM	1378	CB	ILE	89	20.134	47.906	29.167	0.00	0.00
ATOM	1379	HB	ILE	89	19.290	47.386	28.880	0.00	0.00
ATOM	1380	CG2	ILE	89	19.875	49.251	29.114	0.00	0.00
ATOM	1381	1HG2	ILE	89	19.832	49.590	29.091	0.00	0.00
ATOM	1382	2HG2	ILE	89	19.781	49.575	29.081	0.00	0.00
ATOM	1383	3HG2	ILE	89	19.801	49.574	29.129	0.00	0.00
ATOM	1384	CG1	ILE	89	21.131	47.627	28.307	0.00	0.00
ATOM	1385	2HG1	ILE	89	21.789	48.212	28.354	0.00	0.00
ATOM	1386	3HG1	ILE	89	21.447	46.892	28.478	0.00	0.00
ATOM	1387	CD1	ILE	89	20.854	47.527	27.133	0.00	0.00
ATOM	1388	1HD1	ILE	89	20.771	47.506	26.839	0.00	0.00
ATOM	1389	2HD1	ILE	89	20.819	47.515	26.835	0.00	0.00
ATOM	1390	3HD1	ILE	89	20.791	47.478	26.868	0.00	0.00
ATOM	1391	C	ILE	89	20.342	46.104	30.665	0.00	0.00
ATOM	1392	O	ILE	89	19.780	45.492	30.075	0.00	0.00
ATOM	1393	N	ASN	90	20.896	45.558	31.511	0.00	0.00
ATOM	1394	H	ASN	90	21.344	46.111	31.955	0.00	0.00
ATOM	1395	CA	ASN	90	20.912	44.211	31.831	0.00	0.00
ATOM	1396	HA	ASN	90	21.102	43.691	31.024	0.00	0.00
ATOM	1397	CB	ASN	90	21.993	43.947	32.723	0.00	0.00
ATOM	1398	HB2	ASN	90	22.801	44.227	32.395	0.00	0.00
ATOM	1399	HB3	ASN	90	21.877	44.403	33.474	0.00	0.00
ATOM	1400	CG	ASN	90	22.176	42.692	33.055	0.00	0.00
ATOM	1401	OD1	ASN	90	21.822	42.066	33.310	0.00	0.00
ATOM	1402	OD2	ASN	90	22.733	42.288	33.053	0.00	0.00
ATOM	1403	1HD2	ASN	90	22.862	41.470	33.265	0.00	0.00
ATOM	1404	2HD2	ASN	90	23.032	42.800	32.847	0.00	0.00
ATOM	1405	C	ASN	90	19.653	43.739	32.329	0.00	0.00
ATOM	1406	O	ASN	90	19.321	42.742	32.099	0.00	0.00
ATOM	1407	N	ARG	91	18.937	44.450	32.984	0.00	0.00
ATOM	1408	H	ARG	91	19.267	45.261	33.122	0.00	0.00
ATOM	1409	CA	ARG	91	17.671	44.140	33.439	0.00	0.00

ATOM	1410	HA	ARG	91	17.667	43.160	33.625	0.00	0.00
ATOM	1411	CB	ARG	91	17.390	44.833	34.633	0.00	0.00
ATOM	1412	HB2	ARG	91	17.568	45.525	34.698	0.00	0.00
ATOM	1413	HB3	ARG	91	16.693	44.890	34.783	0.00	0.00
ATOM	1414	CG	ARG	91	17.782	44.525	35.553	0.00	0.00
ATOM	1415	HG2	ARG	91	17.766	44.206	35.530	0.00	0.00
ATOM	1416	HG3	ARG	91	18.132	44.431	35.632	0.00	0.00
ATOM	1417	CD	ARG	91	17.715	44.786	36.423	0.00	0.00
ATOM	1418	HD2	ARG	91	17.613	44.999	36.571	0.00	0.00
ATOM	1419	HD3	ARG	91	17.552	44.766	36.504	0.00	0.00
ATOM	1420	NE	ARG	91	17.997	44.784	36.960	0.00	0.00
ATOM	1421	HE	ARG	91	18.118	44.731	36.919	0.00	0.00
ATOM	1422	CZ	ARG	91	18.113	44.840	37.500	0.00	0.00
ATOM	1423	NH1	ARG	91	17.989	44.911	37.641	0.00	0.00
ATOM	1424	1HH1	ARG	91	17.801	44.928	37.342	0.00	0.00
ATOM	1425	2HH1	ARG	91	18.088	44.951	38.053	0.00	0.00
ATOM	1426	NH2	ARG	91	18.362	44.825	37.918	0.00	0.00
ATOM	1427	1HH2	ARG	91	18.468	44.771	37.828	0.00	0.00
ATOM	1428	2HH2	ARG	91	18.450	44.867	38.319	0.00	0.00
ATOM	1429	C	ARG	91	16.647	44.406	32.470	0.00	0.00
ATOM	1430	O	ARG	91	16.664	45.341	31.823	0.00	0.00
ATOM	1431	N	ARG	92	15.758	43.590	32.378	0.00	0.00
ATOM	1432	H	ARG	92	15.836	42.882	32.975	0.00	0.00
ATOM	1433	CA	ARG	92	14.746	43.558	31.453	0.00	0.00
ATOM	1434	HA	ARG	92	14.275	42.719	31.646	0.00	0.00
ATOM	1435	CB	ARG	92	13.819	44.611	31.668	0.00	0.00
ATOM	1436	HB2	ARG	92	13.747	44.931	32.215	0.00	0.00
ATOM	1437	HB3	ARG	92	13.877	45.074	31.338	0.00	0.00
ATOM	1438	CG	ARG	92	12.888	44.630	31.604	0.00	0.00
ATOM	1439	HG2	ARG	92	12.811	44.418	31.361	0.00	0.00
ATOM	1440	HG3	ARG	92	12.837	44.445	31.764	0.00	0.00
ATOM	1441	CD	ARG	92	12.115	45.210	31.664	0.00	0.00
ATOM	1442	HD2	ARG	92	11.980	45.212	31.996	0.00	0.00
ATOM	1443	HD3	ARG	92	12.219	45.522	31.757	0.00	0.00
ATOM	1444	NE	ARG	92	11.418	45.351	31.175	0.00	0.00
ATOM	1445	HE	ARG	92	11.382	45.213	30.981	0.00	0.00
ATOM	1446	CZ	ARG	92	10.825	45.642	30.956	0.00	0.00
ATOM	1447	NH1	ARG	92	10.763	45.855	31.160	0.00	0.00
ATOM	1448	1HH1	ARG	92	11.164	45.806	31.503	0.00	0.00
ATOM	1449	2HH1	ARG	92	10.298	46.066	30.978	0.00	0.00
ATOM	1450	NH2	ARG	92	10.270	45.726	30.511	0.00	0.00
ATOM	1451	1HH2	ARG	92	10.300	45.567	30.335	0.00	0.00
ATOM	1452	2HH2	ARG	92	9.826	45.946	30.343	0.00	0.00
ATOM	1453	C	ARG	92	15.107	43.442	30.078	0.00	0.00
ATOM	1454	O	ARG	92	14.516	42.877	29.457	0.00	0.00
ATOM	1455	N	TYR	93	16.044	43.941	29.594	0.00	0.00
ATOM	1456	H	TYR	93	16.480	44.409	30.160	0.00	0.00
ATOM	1457	CA	TYR	93	16.371	43.967	28.259	0.00	0.00
ATOM	1458	HA	TYR	93	15.509	43.856	27.715	0.00	0.00
ATOM	1459	CB	TYR	93	16.873	45.267	27.934	0.00	0.00
ATOM	1460	HB2	TYR	93	17.756	45.366	28.406	0.00	0.00
ATOM	1461	HB3	TYR	93	17.065	45.270	26.954	0.00	0.00
ATOM	1462	CG	TYR	93	16.010	46.421	28.242	0.00	0.00
ATOM	1463	CD1	TYR	93	15.172	46.780	27.797	0.00	0.00
ATOM	1464	HD1	TYR	93	15.131	46.236	27.236	0.00	0.00
ATOM	1465	CE1	TYR	93	14.394	47.853	28.086	0.00	0.00
ATOM	1466	HE1	TYR	93	13.758	48.131	27.750	0.00	0.00
ATOM	1467	CZ	TYR	93	14.451	48.576	28.820	0.00	0.00
ATOM	1468	OH	TYR	93	13.702	49.604	29.102	0.00	0.00
ATOM	1469	HH	TYR	93	13.785	49.979	29.588	0.00	0.00
ATOM	1470	CE2	TYR	93	15.286	48.218	29.265	0.00	0.00
ATOM	1471	HE2	TYR	93	15.333	48.766	29.827	0.00	0.00
ATOM	1472	CD2	TYR	93	16.062	47.144	28.977	0.00	0.00
ATOM	1473	HD2	TYR	93	16.701	46.875	29.324	0.00	0.00
ATOM	1474	C	TYR	93	17.307	42.871	27.850	0.00	0.00
ATOM	1475	O	TYR	93	17.115	42.290	26.931	0.00	0.00
ATOM	1476	N	ASP	94	18.289	42.538	28.544	0.00	0.00
ATOM	1477	H	ASP	94	18.426	43.060	29.284	0.00	0.00
ATOM	1478	CA	ASP	94	19.203	41.464	28.244	0.00	0.00
ATOM	1479	HA	ASP	94	19.403	41.472	27.209	0.00	0.00
ATOM	1480	CB	ASP	94	20.486	41.706	28.964	0.00	0.00
ATOM	1481	HB2	ASP	94	20.818	42.656	28.735	0.00	0.00
ATOM	1482	HB3	ASP	94	20.317	41.675	29.984	0.00	0.00
ATOM	1483	CG	ASP	94	21.559	40.744	28.627	0.00	0.00
ATOM	1484	OD1	ASP	94	22.015	40.484	28.309	0.00	0.00
ATOM	1485	OD2	ASP	94	21.994	40.266	28.696	0.00	0.00
ATOM	1486	C	ASP	94	18.642	40.112	28.549	0.00	0.00
ATOM	1487	O	ASP	94	18.947	39.166	27.897	0.00	0.00
ATOM	1488	N	SER	95	17.761	40.023	29.488	0.00	0.00
ATOM	1489	H	SER	95	17.565	40.822	29.996	0.00	0.00
ATOM	1490	CA	SER	95	17.040	38.839	29.817	0.00	0.00
ATOM	1491	HA	SER	95	17.729	38.057	29.922	0.00	0.00
ATOM	1492	CB	SER	95	16.360	39.027	31.110	0.00	0.00
ATOM	1493	HB2	SER	95	15.774	38.828	31.238	0.00	0.00
ATOM	1494	HB3	SER	95	16.585	38.785	31.610	0.00	0.00
ATOM	1495	OG	SER	95	16.198	39.756	31.522	0.00	0.00
ATOM	1496	HG	SER	95	15.979	39.719	31.777	0.00	0.00
ATOM	1497	C	SER	95	16.049	38.403	28.780	0.00	0.00
ATOM	1498	O	SER	95	15.724	37.275	28.713	0.00	0.00
ATOM	1499	N	GLU	96	15.591	39.260	27.939	0.00	0.00
ATOM	1500	H	GLU	96	15.899	40.167	28.027	0.00	0.00
ATOM	1501	CA	GLU	96	14.672	38.946	26.889	0.00	0.00
ATOM	1502	HA	GLU	96	13.969	38.254	27.261	0.00	0.00
ATOM	1503	CB	GLU	96	13.925	40.188	26.473	0.00	0.00
ATOM	1504	HB2	GLU	96	13.994	40.838	26.976	0.00	0.00
ATOM	1505	HB3	GLU	96	14.181	40.501	25.762	0.00	0.00
ATOM	1506	CG	GLU	96	12.739	40.178	26.315	0.00	0.00
ATOM	1507	HG2	GLU	96	12.630	40.916	26.137	0.00	0.00
ATOM	1508	HG3	GLU	96	12.682	39.835	25.675	0.00	0.00
ATOM	1509	CD	GLU	96	11.775	39.688	27.246	0.00	0.00
ATOM	1510	OE1	GLU	96	11.423	39.426	27.617	0.00	0.00
ATOM	1511	OE2	GLU	96	11.361	39.564	27.633	0.00	0.00
ATOM	1512	C	GLU	96	15.349	38.269	25.725	0.00	0.00
ATOM	1513	O	GLU	96	14.767	37.430	25.104	0.00	0.00
ATOM	1514	N	PHE	97	16.602	38.543	25.473	0.00	0.00

ATOM	1515	H	PHE	97	17.032	39.241	26.001	0.00	0.00
ATOM	1516	CA	PHE	97	17.375	37.859	24.469	0.00	0.00
ATOM	1517	HA	PHE	97	16.858	37.927	23.540	0.00	0.00
ATOM	1518	CB	PHE	97	18.720	38.512	24.299	0.00	0.00
ATOM	1519	HB2	PHE	97	19.243	38.419	25.195	0.00	0.00
ATOM	1520	HB3	PHE	97	19.259	37.980	23.584	0.00	0.00
ATOM	1521	CG	PHE	97	18.742	39.924	23.885	0.00	0.00
ATOM	1522	CD1	PHE	97	18.103	40.364	22.894	0.00	0.00
ATOM	1523	HD1	PHE	97	17.575	39.708	22.417	0.00	0.00
ATOM	1524	CE1	PHE	97	18.149	41.666	22.519	0.00	0.00
ATOM	1525	HE1	PHE	97	17.661	41.998	21.761	0.00	0.00
ATOM	1526	CZ	PHE	97	18.829	42.537	23.134	0.00	0.00
ATOM	1527	HZ	PHE	97	18.858	43.533	22.853	0.00	0.00
ATOM	1528	CE2	PHE	97	19.476	42.103	24.112	0.00	0.00
ATOM	1529	HE2	PHE	97	19.999	42.766	24.583	0.00	0.00
ATOM	1530	CD2	PHE	97	19.437	40.800	24.480	0.00	0.00
ATOM	1531	HD2	PHE	97	19.940	40.477	25.229	0.00	0.00
ATOM	1532	C	PHE	97	17.538	36.385	24.772	0.00	0.00
ATOM	1533	O	PHE	97	17.600	35.597	23.878	0.00	0.00
ATOM	1534	N	GLN	98	17.538	35.991	26.015	0.00	0.00
ATOM	1535	H	GLN	98	17.499	36.681	26.702	0.00	0.00
ATOM	1536	CA	GLN	98	17.565	34.609	26.424	0.00	0.00
ATOM	1537	HA	GLN	98	18.347	34.121	25.908	0.00	0.00
ATOM	1538	CB	GLN	98	17.851	34.530	27.882	0.00	0.00
ATOM	1539	HB2	GLN	98	17.720	34.949	28.272	0.00	0.00
ATOM	1540	HB3	GLN	98	17.625	34.125	28.241	0.00	0.00
ATOM	1541	CG	GLN	98	18.621	34.417	28.361	0.00	0.00
ATOM	1542	HG2	GLN	98	18.773	34.439	28.273	0.00	0.00
ATOM	1543	HG3	GLN	98	18.604	34.510	28.415	0.00	0.00
ATOM	1544	CD	GLN	98	19.219	34.152	28.922	0.00	0.00
ATOM	1545	OE1	GLN	98	19.365	33.790	28.995	0.00	0.00
ATOM	1546	NE2	GLN	98	19.588	34.320	29.340	0.00	0.00
ATOM	1547	1HE2	GLN	98	19.979	34.145	29.715	0.00	0.00
ATOM	1548	2HE2	GLN	98	19.481	34.618	29.299	0.00	0.00
ATOM	1549	C	GLN	98	16.309	33.866	26.078	0.00	0.00
ATOM	1550	O	GLN	98	16.363	32.725	25.773	0.00	0.00
ATOM	1551	N	THR	99	15.188	34.511	26.047	0.00	0.00
ATOM	1552	H	THR	99	15.194	35.440	26.313	0.00	0.00
ATOM	1553	CA	THR	99	13.937	33.948	25.628	0.00	0.00
ATOM	1554	HA	THR	99	13.826	33.003	26.080	0.00	0.00
ATOM	1555	CB	THR	99	12.803	34.805	26.076	0.00	0.00
ATOM	1556	HB	THR	99	12.611	35.389	25.576	0.00	0.00
ATOM	1557	CG2	THR	99	11.770	34.331	26.291	0.00	0.00
ATOM	1558	1HG2	THR	99	11.508	34.224	26.337	0.00	0.00
ATOM	1559	2HG2	THR	99	11.521	34.209	26.335	0.00	0.00
ATOM	1560	3HG2	THR	99	11.515	34.221	26.353	0.00	0.00
ATOM	1561	OG1	THR	99	12.905	35.336	26.988	0.00	0.00
ATOM	1562	HG1	THR	99	12.771	35.952	27.116	0.00	0.00
ATOM	1563	C	THR	99	13.874	33.719	24.155	0.00	0.00
ATOM	1564	O	THR	99	13.225	32.886	23.711	0.00	0.00
ATOM	1565	N	MET	100	14.593	34.410	23.385	0.00	0.00
ATOM	1566	H	MET	100	15.082	35.092	23.805	0.00	0.00
ATOM	1567	CA	MET	100	14.723	34.229	21.969	0.00	0.00
ATOM	1568	HA	MET	100	13.788	33.946	21.578	0.00	0.00
ATOM	1569	CB	MET	100	15.114	35.531	21.328	0.00	0.00
ATOM	1570	HB2	MET	100	15.928	35.765	21.616	0.00	0.00
ATOM	1571	HB3	MET	100	15.168	35.464	20.419	0.00	0.00
ATOM	1572	CG	MET	100	14.342	36.620	21.496	0.00	0.00
ATOM	1573	HG2	MET	100	13.625	36.461	21.078	0.00	0.00
ATOM	1574	HG3	MET	100	14.155	36.639	22.327	0.00	0.00
ATOM	1575	SD	MET	100	14.823	38.146	21.063	0.00	0.00
ATOM	1576	CE	MET	100	13.793	39.130	21.827	0.00	0.00
ATOM	1577	HE1	MET	100	13.602	39.339	21.984	0.00	0.00
ATOM	1578	HE2	MET	100	13.577	39.336	21.966	0.00	0.00
ATOM	1579	HE3	MET	100	13.582	39.316	21.996	0.00	0.00
ATOM	1580	C	MET	100	15.685	33.121	21.610	0.00	0.00
ATOM	1581	O	MET	100	15.507	32.452	20.673	0.00	0.00
ATOM	1582	N	LEU	101	16.681	32.883	22.372	0.00	0.00
ATOM	1583	H	LEU	101	16.774	33.467	23.121	0.00	0.00
ATOM	1584	CA	LEU	101	17.689	31.887	22.139	0.00	0.00
ATOM	1585	HA	LEU	101	17.957	31.925	21.124	0.00	0.00
ATOM	1586	CB	LEU	101	18.889	32.227	22.957	0.00	0.00
ATOM	1587	HB2	LEU	101	18.807	32.737	23.535	0.00	0.00
ATOM	1588	HB3	LEU	101	19.145	31.640	23.319	0.00	0.00
ATOM	1589	CG	LEU	101	19.871	32.658	22.573	0.00	0.00
ATOM	1590	HG	LEU	101	19.543	32.667	22.568	0.00	0.00
ATOM	1591	CD1	LEU	101	20.669	32.979	22.492	0.00	0.00
ATOM	1592	1HD1	LEU	101	20.840	33.072	22.510	0.00	0.00
ATOM	1593	2HD1	LEU	101	20.841	33.069	22.447	0.00	0.00
ATOM	1594	3HD1	LEU	101	20.906	33.030	22.463	0.00	0.00
ATOM	1595	CD2	LEU	101	20.565	32.783	22.305	0.00	0.00
ATOM	1596	1HD2	LEU	101	20.688	32.825	22.247	0.00	0.00
ATOM	1597	2HD2	LEU	101	20.798	32.816	22.233	0.00	0.00
ATOM	1598	3HD2	LEU	101	20.713	32.804	22.243	0.00	0.00
ATOM	1599	C	LEU	101	17.226	30.477	22.380	0.00	0.00
ATOM	1600	O	LEU	101	17.788	29.576	21.855	0.00	0.00
ATOM	1601	N	GLN	102	16.173	30.269	23.110	0.00	0.00
ATOM	1602	H	GLN	102	15.772	31.038	23.530	0.00	0.00
ATOM	1603	CA	GLN	102	15.586	28.986	23.361	0.00	0.00
ATOM	1604	HA	GLN	102	16.355	28.346	23.647	0.00	0.00
ATOM	1605	CB	GLN	102	14.632	29.073	24.495	0.00	0.00
ATOM	1606	HB2	GLN	102	14.411	28.993	24.656	0.00	0.00
ATOM	1607	HB3	GLN	102	14.516	29.063	24.830	0.00	0.00
ATOM	1608	CG	GLN	102	14.132	29.242	25.006	0.00	0.00
ATOM	1609	HG2	GLN	102	14.223	29.096	24.759	0.00	0.00
ATOM	1610	HG3	GLN	102	14.129	29.225	25.101	0.00	0.00
ATOM	1611	CD	GLN	102	13.499	29.619	25.747	0.00	0.00
ATOM	1612	OE1	GLN	102	13.206	29.752	25.749	0.00	0.00
ATOM	1613	NE2	GLN	102	13.264	29.806	26.398	0.00	0.00
ATOM	1614	1HE2	GLN	102	12.858	30.050	26.877	0.00	0.00
ATOM	1615	2HE2	GLN	102	13.494	29.699	26.420	0.00	0.00
ATOM	1616	C	GLN	102	14.947	28.355	22.170	0.00	0.00
ATOM	1617	O	GLN	102	14.717	27.222	22.162	0.00	0.00
ATOM	1618	N	HIP	103	14.682	29.067	21.152	0.00	0.00
ATOM	1619	H	HIP	103	14.882	29.991	21.231	0.00	0.00

ATOM	1620	CA	HIP	103	14.107	28.598	19.931	0.00	0.00
ATOM	1621	HA	HIP	103	13.631	27.688	20.125	0.00	0.00
ATOM	1622	CB	HIP	103	13.065	29.550	19.492	0.00	0.00
ATOM	1623	HB2	HIP	103	13.464	30.430	19.323	0.00	0.00
ATOM	1624	HB3	HIP	103	12.685	29.256	18.627	0.00	0.00
ATOM	1625	CG	HIP	103	11.993	29.729	20.373	0.00	0.00
ATOM	1626	ND1	HIP	103	11.181	29.059	20.856	0.00	0.00
ATOM	1627	HD1	HIP	103	11.192	28.369	20.677	0.00	0.00
ATOM	1628	CE1	HIP	103	10.368	29.493	21.599	0.00	0.00
ATOM	1629	HE1	HIP	103	9.627	29.154	22.107	0.00	0.00
ATOM	1630	NE2	HIP	103	10.638	30.418	21.599	0.00	0.00
ATOM	1631	HE2	HIP	103	10.180	30.900	22.077	0.00	0.00
ATOM	1632	CD2	HIP	103	11.652	30.578	20.835	0.00	0.00
ATOM	1633	HD2	HIP	103	12.100	31.240	20.638	0.00	0.00
ATOM	1634	C	HIP	103	15.099	28.296	18.838	0.00	0.00
ATOM	1635	O	HIP	103	14.756	27.953	17.788	0.00	0.00
ATOM	1636	N	LEU	104	16.320	28.409	19.070	0.00	0.00
ATOM	1637	H	LEU	104	16.529	28.675	19.949	0.00	0.00
ATOM	1638	CA	LEU	104	17.382	28.101	18.154	0.00	0.00
ATOM	1639	HA	LEU	104	17.060	28.257	17.182	0.00	0.00
ATOM	1640	CB	LEU	104	18.497	28.995	18.400	0.00	0.00
ATOM	1641	HB2	LEU	104	18.475	29.284	18.838	0.00	0.00
ATOM	1642	HB3	LEU	104	18.947	28.751	18.488	0.00	0.00
ATOM	1643	CG	LEU	104	19.075	29.820	17.961	0.00	0.00
ATOM	1644	HG	LEU	104	18.928	29.580	18.078	0.00	0.00
ATOM	1645	CD1	LEU	104	19.455	30.373	17.634	0.00	0.00
ATOM	1646	1HD1	LEU	104	19.531	30.510	17.600	0.00	0.00
ATOM	1647	2HD1	LEU	104	19.588	30.482	17.530	0.00	0.00
ATOM	1648	3HD1	LEU	104	19.523	30.524	17.531	0.00	0.00
ATOM	1649	CD2	LEU	104	19.536	30.472	17.699	0.00	0.00
ATOM	1650	1HD2	LEU	104	19.652	30.629	17.601	0.00	0.00
ATOM	1651	2HD2	LEU	104	19.622	30.628	17.674	0.00	0.00
ATOM	1652	3HD2	LEU	104	19.664	30.628	17.633	0.00	0.00
ATOM	1653	C	LEU	104	17.798	26.697	18.234	0.00	0.00
ATOM	1654	O	LEU	104	17.846	26.175	19.266	0.00	0.00
ATOM	1655	N	GLN	105	18.133	26.096	17.150	0.00	0.00
ATOM	1656	H	GLN	105	18.075	26.589	16.347	0.00	0.00
ATOM	1657	CA	GLN	105	18.661	24.798	17.056	0.00	0.00
ATOM	1658	HA	GLN	105	18.220	24.243	17.817	0.00	0.00
ATOM	1659	CB	GLN	105	18.323	24.213	15.764	0.00	0.00
ATOM	1660	HB2	GLN	105	18.665	24.751	15.037	0.00	0.00
ATOM	1661	HB3	GLN	105	18.747	23.352	15.658	0.00	0.00
ATOM	1662	CG	GLN	105	16.979	24.032	15.553	0.00	0.00
ATOM	1663	HG2	GLN	105	16.625	24.137	15.889	0.00	0.00
ATOM	1664	HG3	GLN	105	16.684	24.245	15.206	0.00	0.00
ATOM	1665	CD	GLN	105	16.484	23.415	15.328	0.00	0.00
ATOM	1666	OE1	GLN	105	16.782	23.059	15.312	0.00	0.00
ATOM	1667	NE2	GLN	105	15.712	23.260	15.147	0.00	0.00
ATOM	1668	1HE2	GLN	105	15.395	22.859	14.999	0.00	0.00
ATOM	1669	2HE2	GLN	105	15.452	23.540	15.154	0.00	0.00
ATOM	1670	C	GLN	105	20.113	24.771	17.236	0.00	0.00
ATOM	1671	O	GLN	105	20.728	25.722	17.023	0.00	0.00
ATOM	1672	N	PRO	106	20.703	23.709	17.600	0.00	0.00
ATOM	1673	CD	PRO	106	20.091	22.552	17.984	0.00	0.00
ATOM	1674	HD2	PRO	106	19.785	22.050	17.190	0.00	0.00
ATOM	1675	HD3	PRO	106	19.314	22.724	18.620	0.00	0.00
ATOM	1676	CG	PRO	106	21.063	21.789	18.641	0.00	0.00
ATOM	1677	HG2	PRO	106	21.155	21.006	18.245	0.00	0.00
ATOM	1678	HG3	PRO	106	20.852	21.691	19.512	0.00	0.00
ATOM	1679	CB	PRO	106	22.223	22.407	18.557	0.00	0.00
ATOM	1680	HB2	PRO	106	22.479	22.518	19.397	0.00	0.00
ATOM	1681	HB3	PRO	106	22.810	21.898	18.114	0.00	0.00
ATOM	1682	CA	PRO	106	22.064	23.627	17.877	0.00	0.00
ATOM	1683	HA	PRO	106	22.274	24.360	18.518	0.00	0.00
ATOM	1684	C	PRO	106	23.006	23.721	16.742	0.00	0.00
ATOM	1685	O	PRO	106	24.098	23.684	16.926	0.00	0.00
ATOM	1686	N	THR	107	22.611	23.837	15.575	0.00	0.00
ATOM	1687	H	THR	107	21.714	23.891	15.483	0.00	0.00
ATOM	1688	CA	THR	107	23.399	23.902	14.396	0.00	0.00
ATOM	1689	HA	THR	107	24.333	23.530	14.592	0.00	0.00
ATOM	1690	CB	THR	107	22.848	23.097	13.355	0.00	0.00
ATOM	1691	HB	THR	107	23.239	23.176	12.661	0.00	0.00
ATOM	1692	CG2	THR	107	22.823	21.977	13.504	0.00	0.00
ATOM	1693	1HG2	THR	107	22.837	21.708	13.549	0.00	0.00
ATOM	1694	2HG2	THR	107	22.803	21.692	13.538	0.00	0.00
ATOM	1695	3HG2	THR	107	22.821	21.708	13.519	0.00	0.00
ATOM	1696	OG1	THR	107	21.843	23.251	13.087	0.00	0.00
ATOM	1697	HG1	THR	107	21.589	22.929	12.578	0.00	0.00
ATOM	1698	C	THR	107	23.585	25.246	13.914	0.00	0.00
ATOM	1699	O	THR	107	22.746	26.028	14.016	0.00	0.00
ATOM	1700	N	ALA	108	24.685	25.529	13.367	0.00	0.00
ATOM	1701	H	ALA	108	25.329	24.851	13.287	0.00	0.00
ATOM	1702	CA	ALA	108	25.017	26.779	12.912	0.00	0.00
ATOM	1703	HA	ALA	108	24.820	27.422	13.667	0.00	0.00
ATOM	1704	CB	ALA	108	26.422	26.803	12.610	0.00	0.00
ATOM	1705	HB1	ALA	108	26.767	26.802	12.545	0.00	0.00
ATOM	1706	HB2	ALA	108	26.758	26.808	12.523	0.00	0.00
ATOM	1707	HB3	ALA	108	26.758	26.828	12.542	0.00	0.00
ATOM	1708	C	ALA	108	24.257	27.227	11.783	0.00	0.00
ATOM	1709	O	ALA	108	23.931	28.278	11.688	0.00	0.00
ATOM	1710	N	GLU	109	23.914	26.431	10.957	0.00	0.00
ATOM	1711	H	GLU	109	24.227	25.589	11.068	0.00	0.00
ATOM	1712	CA	GLU	109	23.165	26.740	9.861	0.00	0.00
ATOM	1713	HA	GLU	109	23.586	27.521	9.400	0.00	0.00
ATOM	1714	CB	GLU	109	23.231	25.662	8.951	0.00	0.00
ATOM	1715	HB2	GLU	109	23.223	25.382	8.744	0.00	0.00
ATOM	1716	HB3	GLU	109	23.235	25.478	8.727	0.00	0.00
ATOM	1717	CG	GLU	109	23.313	25.215	8.578	0.00	0.00
ATOM	1718	HG2	GLU	109	23.186	25.445	8.675	0.00	0.00
ATOM	1719	HG3	GLU	109	23.358	25.328	8.612	0.00	0.00
ATOM	1720	CD	GLU	109	23.503	24.302	8.019	0.00	0.00
ATOM	1721	OE1	GLU	109	23.572	23.952	7.771	0.00	0.00
ATOM	1722	OE2	GLU	109	23.587	23.927	7.822	0.00	0.00
ATOM	1723	C	GLU	109	21.789	27.134	10.177	0.00	0.00
ATOM	1724	O	GLU	109	21.232	27.862	9.506	0.00	0.00

ATOM	1725	N	ASN	110	21.248	26.711	11.221	0.00	0.00
ATOM	1726	H	ASN	110	21.749	26.120	11.736	0.00	0.00
ATOM	1727	CA	ASN	110	19.968	27.093	11.672	0.00	0.00
ATOM	1728	HA	ASN	110	19.338	27.179	10.845	0.00	0.00
ATOM	1729	CB	ASN	110	19.457	26.018	12.537	0.00	0.00
ATOM	1730	HB2	ASN	110	19.529	25.163	12.122	0.00	0.00
ATOM	1731	HB3	ASN	110	19.952	25.950	13.347	0.00	0.00
ATOM	1732	CG	ASN	110	18.175	26.162	12.879	0.00	0.00
ATOM	1733	OD1	ASN	110	17.885	26.581	13.633	0.00	0.00
ATOM	1734	ND2	ASN	110	17.369	25.810	12.341	0.00	0.00
ATOM	1735	1HD2	ASN	110	16.532	25.893	12.567	0.00	0.00
ATOM	1736	2HD2	ASN	110	17.597	25.458	11.719	0.00	0.00
ATOM	1737	C	ASN	110	19.952	28.425	12.340	0.00	0.00
ATOM	1738	O	ASN	110	18.999	29.127	12.257	0.00	0.00
ATOM	1739	N	ALA	111	21.015	28.811	12.947	0.00	0.00
ATOM	1740	H	ALA	111	21.762	28.197	12.985	0.00	0.00
ATOM	1741	CA	ALA	111	21.152	30.083	13.550	0.00	0.00
ATOM	1742	HA	ALA	111	20.354	30.226	14.204	0.00	0.00
ATOM	1743	CB	ALA	111	22.395	30.069	14.334	0.00	0.00
ATOM	1744	HB1	ALA	111	22.680	30.061	14.551	0.00	0.00
ATOM	1745	HB2	ALA	111	22.704	30.050	14.508	0.00	0.00
ATOM	1746	HB3	ALA	111	22.698	30.098	14.521	0.00	0.00
ATOM	1747	C	ALA	111	21.103	31.223	12.580	0.00	0.00
ATOM	1748	O	ALA	111	20.521	32.227	12.856	0.00	0.00
ATOM	1749	N	TYR	112	21.650	31.060	11.429	0.00	0.00
ATOM	1750	H	TYR	112	22.129	30.229	11.273	0.00	0.00
ATOM	1751	CA	TYR	112	21.593	32.031	10.383	0.00	0.00
ATOM	1752	HA	TYR	112	21.865	32.975	10.776	0.00	0.00
ATOM	1753	CB	TYR	112	22.575	31.657	9.309	0.00	0.00
ATOM	1754	HB2	TYR	112	22.370	30.796	8.956	0.00	0.00
ATOM	1755	HB3	TYR	112	22.476	32.257	8.575	0.00	0.00
ATOM	1756	CG	TYR	112	23.924	31.625	9.562	0.00	0.00
ATOM	1757	CD1	TYR	112	24.511	32.236	10.306	0.00	0.00
ATOM	1758	HD1	TYR	112	24.009	32.731	10.728	0.00	0.00
ATOM	1759	CE1	TYR	112	25.759	32.206	10.495	0.00	0.00
ATOM	1760	HE1	TYR	112	26.209	32.673	11.055	0.00	0.00
ATOM	1761	CZ	TYR	112	26.431	31.570	9.943	0.00	0.00
ATOM	1762	OH	TYR	112	27.630	31.556	10.117	0.00	0.00
ATOM	1763	HH	TYR	112	27.977	31.078	9.643	0.00	0.00
ATOM	1764	CE2	TYR	112	25.851	30.957	9.200	0.00	0.00
ATOM	1765	HE2	TYR	112	26.360	30.472	8.774	0.00	0.00
ATOM	1766	CD2	TYR	112	24.603	30.988	9.012	0.00	0.00
ATOM	1767	HD2	TYR	112	24.166	30.527	8.437	0.00	0.00
ATOM	1768	C	TYR	112	20.204	32.189	9.812	0.00	0.00
ATOM	1769	O	TYR	112	19.782	33.266	9.530	0.00	0.00
ATOM	1770	N	GLU	113	19.465	31.137	9.685	0.00	0.00
ATOM	1771	H	GLU	113	19.864	30.286	9.921	0.00	0.00
ATOM	1772	CA	GLU	113	18.107	31.162	9.201	0.00	0.00
ATOM	1773	HA	GLU	113	18.077	31.744	8.316	0.00	0.00
ATOM	1774	CB	GLU	113	17.681	29.769	8.849	0.00	0.00
ATOM	1775	HB2	GLU	113	18.160	29.304	8.588	0.00	0.00
ATOM	1776	HB3	GLU	113	17.432	29.370	9.359	0.00	0.00
ATOM	1777	CG	GLU	113	16.949	29.522	8.148	0.00	0.00
ATOM	1778	HG2	GLU	113	16.654	29.751	8.439	0.00	0.00
ATOM	1779	HG3	GLU	113	16.974	29.789	7.765	0.00	0.00
ATOM	1780	CD	GLU	113	16.577	28.600	7.577	0.00	0.00
ATOM	1781	OE1	GLU	113	16.451	28.209	7.354	0.00	0.00
ATOM	1782	OE2	GLU	113	16.394	28.261	7.341	0.00	0.00
ATOM	1783	C	GLU	113	17.144	31.814	10.178	0.00	0.00
ATOM	1784	O	GLU	113	16.334	32.583	9.794	0.00	0.00
ATOM	1785	N	TYR	114	17.261	31.567	11.444	0.00	0.00
ATOM	1786	H	TYR	114	17.934	30.921	11.703	0.00	0.00
ATOM	1787	CA	TYR	114	16.424	32.168	12.470	0.00	0.00
ATOM	1788	HA	TYR	114	15.401	32.097	12.160	0.00	0.00
ATOM	1789	CB	TYR	114	16.564	31.390	13.755	0.00	0.00
ATOM	1790	HB2	TYR	114	16.436	30.372	13.550	0.00	0.00
ATOM	1791	HB3	TYR	114	17.536	31.507	14.124	0.00	0.00
ATOM	1792	CG	TYR	114	15.594	31.766	14.812	0.00	0.00
ATOM	1793	CD1	TYR	114	14.339	31.337	14.756	0.00	0.00
ATOM	1794	HD1	TYR	114	14.074	30.731	13.978	0.00	0.00
ATOM	1795	CE1	TYR	114	13.425	31.703	15.708	0.00	0.00
ATOM	1796	HE1	TYR	114	12.468	31.376	15.657	0.00	0.00
ATOM	1797	CZ	TYR	114	13.764	32.501	16.726	0.00	0.00
ATOM	1798	OH	TYR	114	12.883	32.868	17.635	0.00	0.00
ATOM	1799	HH	TYR	114	12.078	32.583	17.449	0.00	0.00
ATOM	1800	CE2	TYR	114	15.024	32.918	16.795	0.00	0.00
ATOM	1801	HE2	TYR	114	15.274	33.523	17.576	0.00	0.00
ATOM	1802	CD2	TYR	114	15.935	32.557	15.836	0.00	0.00
ATOM	1803	HD2	TYR	114	16.889	32.894	15.880	0.00	0.00
ATOM	1804	C	TYR	114	16.720	33.642	12.672	0.00	0.00
ATOM	1805	O	TYR	114	15.811	34.440	12.760	0.00	0.00
ATOM	1806	N	PHE	115	17.978	34.025	12.662	0.00	0.00
ATOM	1807	H	PHE	115	18.677	33.328	12.583	0.00	0.00
ATOM	1808	CA	PHE	115	18.389	35.409	12.734	0.00	0.00
ATOM	1809	HA	PHE	115	18.006	35.835	13.642	0.00	0.00
ATOM	1810	CB	PHE	115	19.904	35.469	12.770	0.00	0.00
ATOM	1811	HB2	PHE	115	20.244	34.864	13.564	0.00	0.00
ATOM	1812	HB3	PHE	115	20.295	35.045	11.880	0.00	0.00
ATOM	1813	CG	PHE	115	20.492	36.823	12.947	0.00	0.00
ATOM	1814	CD1	PHE	115	20.798	37.436	13.193	0.00	0.00
ATOM	1815	HD1	PHE	115	20.598	36.963	13.257	0.00	0.00
ATOM	1816	CE1	PHE	115	21.373	38.666	13.357	0.00	0.00
ATOM	1817	HE1	PHE	115	21.603	39.127	13.545	0.00	0.00
ATOM	1818	CZ	PHE	115	21.648	39.292	13.274	0.00	0.00
ATOM	1819	HZ	PHE	115	22.089	40.231	13.399	0.00	0.00
ATOM	1820	CE2	PHE	115	21.342	38.690	13.030	0.00	0.00
ATOM	1821	HE2	PHE	115	21.548	39.169	12.967	0.00	0.00
ATOM	1822	CD2	PHE	115	20.767	37.460	12.865	0.00	0.00
ATOM	1823	HD2	PHE	115	20.541	37.006	12.676	0.00	0.00
ATOM	1824	C	PHE	115	17.819	36.221	11.596	0.00	0.00
ATOM	1825	O	PHE	115	17.259	37.268	11.820	0.00	0.00
ATOM	1826	N	THR	116	17.879	35.711	10.387	0.00	0.00
ATOM	1827	H	THR	116	18.324	34.839	10.267	0.00	0.00
ATOM	1828	CA	THR	116	17.326	36.367	9.224	0.00	0.00
ATOM	1829	HA	THR	116	17.716	37.351	9.184	0.00	0.00

ATOM	1830	CB	THR	116	17.738	35.661	7.952	0.00	0.00
ATOM	1831	HB	THR	116	17.298	35.195	7.706	0.00	0.00
ATOM	1832	CG2	THR	116	17.944	36.150	7.069	0.00	0.00
ATOM	1833	1HG2	THR	116	17.996	36.261	6.839	0.00	0.00
ATOM	1834	2HG2	THR	116	17.987	36.276	6.857	0.00	0.00
ATOM	1835	3HG2	THR	116	17.995	36.261	6.853	0.00	0.00
ATOM	1836	OG1	THR	116	18.547	35.121	7.850	0.00	0.00
ATOM	1837	HG1	THR	116	18.859	34.565	8.124	0.00	0.00
ATOM	1838	C	THR	116	15.827	36.511	9.299	0.00	0.00
ATOM	1839	O	THR	116	15.317	37.482	8.897	0.00	0.00
ATOM	1840	N	LYS	117	15.114	35.598	9.863	0.00	0.00
ATOM	1841	H	LYS	117	15.594	34.826	10.169	0.00	0.00
ATOM	1842	CA	LYS	117	13.671	35.644	10.021	0.00	0.00
ATOM	1843	HA	LYS	117	13.248	35.946	9.097	0.00	0.00
ATOM	1844	CB	LYS	117	13.152	34.274	10.338	0.00	0.00
ATOM	1845	HB2	LYS	117	13.627	33.803	10.690	0.00	0.00
ATOM	1846	HB3	LYS	117	12.563	34.266	10.796	0.00	0.00
ATOM	1847	CG	LYS	117	12.761	33.538	9.558	0.00	0.00
ATOM	1848	HG2	LYS	117	12.344	33.793	9.273	0.00	0.00
ATOM	1849	HG3	LYS	117	13.224	33.572	9.237	0.00	0.00
ATOM	1850	CD	LYS	117	12.297	32.403	9.607	0.00	0.00
ATOM	1851	HD2	LYS	117	12.581	32.145	10.042	0.00	0.00
ATOM	1852	HD3	LYS	117	11.737	32.421	9.786	0.00	0.00
ATOM	1853	CE	LYS	117	12.201	31.602	8.811	0.00	0.00
ATOM	1854	HE2	LYS	117	11.986	31.700	8.514	0.00	0.00
ATOM	1855	HE3	LYS	117	12.542	31.596	8.615	0.00	0.00
ATOM	1856	NZ	LYS	117	11.946	30.717	8.692	0.00	0.00
ATOM	1857	HZ1	LYS	117	11.899	30.491	8.686	0.00	0.00
ATOM	1858	HZ2	LYS	117	11.857	30.510	8.671	0.00	0.00
ATOM	1859	HZ3	LYS	117	11.894	30.492	8.628	0.00	0.00
ATOM	1860	C	LYS	117	13.196	36.660	11.034	0.00	0.00
ATOM	1861	O	LYS	117	12.256	37.296	10.815	0.00	0.00
ATOM	1862	N	ILE	118	13.843	36.858	12.110	0.00	0.00
ATOM	1863	H	ILE	118	14.595	36.282	12.249	0.00	0.00
ATOM	1864	CA	ILE	118	13.443	37.829	13.130	0.00	0.00
ATOM	1865	HA	ILE	118	12.395	37.984	13.029	0.00	0.00
ATOM	1866	CB	ILE	118	13.631	37.305	14.537	0.00	0.00
ATOM	1867	HB	ILE	118	13.202	37.994	15.171	0.00	0.00
ATOM	1868	CG2	ILE	118	12.910	36.057	14.736	0.00	0.00
ATOM	1869	1HG2	ILE	118	12.706	35.768	14.760	0.00	0.00
ATOM	1870	2HG2	ILE	118	12.763	35.727	14.789	0.00	0.00
ATOM	1871	3HG2	ILE	118	12.718	35.762	14.823	0.00	0.00
ATOM	1872	CG1	ILE	118	15.012	37.156	14.963	0.00	0.00
ATOM	1873	2HG1	ILE	118	15.402	36.422	14.631	0.00	0.00
ATOM	1874	3HG1	ILE	118	15.509	37.835	14.693	0.00	0.00
ATOM	1875	CD1	ILE	118	15.243	37.096	16.214	0.00	0.00
ATOM	1876	1HD1	ILE	118	15.317	37.070	16.514	0.00	0.00
ATOM	1877	2HD1	ILE	118	15.308	37.097	16.520	0.00	0.00
ATOM	1878	3HD1	ILE	118	15.296	37.077	16.518	0.00	0.00
ATOM	1879	C	ILE	118	14.034	39.208	12.940	0.00	0.00
ATOM	1880	O	ILE	118	13.434	40.176	13.325	0.00	0.00
ATOM	1881	N	ALA	119	15.163	39.328	12.302	0.00	0.00
ATOM	1882	H	ALA	119	15.633	38.509	12.024	0.00	0.00
ATOM	1883	CA	ALA	119	15.805	40.592	12.061	0.00	0.00
ATOM	1884	HA	ALA	119	15.666	41.211	12.908	0.00	0.00
ATOM	1885	CB	ALA	119	17.262	40.363	11.908	0.00	0.00
ATOM	1886	HB1	ALA	119	17.598	40.275	11.748	0.00	0.00
ATOM	1887	HB2	ALA	119	17.640	40.440	11.902	0.00	0.00
ATOM	1888	HB3	ALA	119	17.609	40.221	11.970	0.00	0.00
ATOM	1889	C	ALA	119	15.243	41.353	10.906	0.00	0.00
ATOM	1890	O	ALA	119	15.360	42.516	10.857	0.00	0.00
ATOM	1891	N	THR	120	14.591	40.730	9.996	0.00	0.00
ATOM	1892	H	THR	120	14.537	39.780	10.063	0.00	0.00
ATOM	1893	CA	THR	120	13.926	41.363	8.913	0.00	0.00
ATOM	1894	HA	THR	120	14.561	42.062	8.529	0.00	0.00
ATOM	1895	CB	THR	120	13.592	40.421	7.843	0.00	0.00
ATOM	1896	HB	THR	120	13.007	40.410	7.553	0.00	0.00
ATOM	1897	CG2	THR	120	14.028	40.344	7.020	0.00	0.00
ATOM	1898	1HG2	THR	120	14.108	40.324	6.811	0.00	0.00
ATOM	1899	2HG2	THR	120	14.135	40.345	6.828	0.00	0.00
ATOM	1900	3HG2	THR	120	14.147	40.307	6.807	0.00	0.00
ATOM	1901	OG1	THR	120	13.630	39.591	7.930	0.00	0.00
ATOM	1902	HG1	THR	120	13.781	39.077	7.933	0.00	0.00
ATOM	1903	C	THR	120	12.728	42.089	9.311	0.00	0.00
ATOM	1904	O	THR	120	12.465	43.070	8.839	0.00	0.00
ATOM	1905	N	SER	121	12.042	41.661	10.230	0.00	0.00
ATOM	1906	H	SER	121	12.288	40.840	10.555	0.00	0.00
ATOM	1907	CA	SER	121	10.908	42.293	10.755	0.00	0.00
ATOM	1908	HA	SER	121	10.361	42.681	9.974	0.00	0.00
ATOM	1909	CB	SER	121	10.087	41.307	11.393	0.00	0.00
ATOM	1910	HB2	SER	121	10.430	41.051	12.002	0.00	0.00
ATOM	1911	HB3	SER	121	9.395	41.544	11.646	0.00	0.00
ATOM	1912	OG	SER	121	9.765	40.416	10.882	0.00	0.00
ATOM	1913	HG	SER	121	9.614	40.145	10.771	0.00	0.00
ATOM	1914	C	SER	121	11.195	43.427	11.691	0.00	0.00
ATOM	1915	O	SER	121	10.367	44.213	11.934	0.00	0.00
ATOM	1916	N	LEU	122	12.371	43.552	12.189	0.00	0.00
ATOM	1917	H	LEU	122	12.991	42.863	11.970	0.00	0.00
ATOM	1918	CA	LEU	122	12.808	44.596	13.069	0.00	0.00
ATOM	1919	HA	LEU	122	12.111	44.672	13.854	0.00	0.00
ATOM	1920	CB	LEU	122	14.143	44.180	13.653	0.00	0.00
ATOM	1921	HB2	LEU	122	14.058	43.290	14.059	0.00	0.00
ATOM	1922	HB3	LEU	122	14.794	44.091	12.929	0.00	0.00
ATOM	1923	CG	LEU	122	14.773	44.997	14.631	0.00	0.00
ATOM	1924	HG	LEU	122	14.929	45.825	14.205	0.00	0.00
ATOM	1925	CD1	LEU	122	14.093	45.189	15.763	0.00	0.00
ATOM	1926	1HD1	LEU	122	13.914	45.278	16.017	0.00	0.00
ATOM	1927	2HD1	LEU	122	13.968	45.245	16.049	0.00	0.00
ATOM	1928	3HD1	LEU	122	13.902	45.197	16.045	0.00	0.00
ATOM	1929	CD2	LEU	122	15.948	44.488	15.083	0.00	0.00
ATOM	1930	1HD2	LEU	122	16.212	44.353	15.226	0.00	0.00
ATOM	1931	2HD2	LEU	122	16.244	44.353	15.147	0.00	0.00
ATOM	1932	3HD2	LEU	122	16.255	44.401	15.198	0.00	0.00
ATOM	1933	C	LEU	122	12.862	45.946	12.402	0.00	0.00
ATOM	1934	O	LEU	122	12.625	46.914	13.020	0.00	0.00

ATOM	1935	N	PHE	123	13.132	46.016	11.148	0.00	0.00
ATOM	1936	H	PHE	123	13.312	45.185	10.705	0.00	0.00
ATOM	1937	CA	PHE	123	13.297	47.234	10.398	0.00	0.00
ATOM	1938	HA	PHE	123	13.267	48.050	11.070	0.00	0.00
ATOM	1939	CB	PHE	123	14.659	47.240	9.777	0.00	0.00
ATOM	1940	HB2	PHE	123	14.735	46.563	9.058	0.00	0.00
ATOM	1941	HB3	PHE	123	14.813	48.104	9.340	0.00	0.00
ATOM	1942	CG	PHE	123	15.718	47.032	10.643	0.00	0.00
ATOM	1943	CD1	PHE	123	16.069	47.815	11.430	0.00	0.00
ATOM	1944	HD1	PHE	123	15.586	48.559	11.416	0.00	0.00
ATOM	1945	CE1	PHE	123	17.043	47.624	12.234	0.00	0.00
ATOM	1946	HE1	PHE	123	17.315	48.227	12.828	0.00	0.00
ATOM	1947	CZ	PHE	123	17.657	46.643	12.266	0.00	0.00
ATOM	1948	HZ	PHE	123	18.393	46.494	12.888	0.00	0.00
ATOM	1949	CE2	PHE	123	17.306	45.857	11.486	0.00	0.00
ATOM	1950	HE2	PHE	123	17.768	45.102	11.510	0.00	0.00
ATOM	1951	CD2	PHE	123	16.344	46.053	10.673	0.00	0.00
ATOM	1952	HD2	PHE	123	16.080	45.450	10.076	0.00	0.00
ATOM	1953	C	PHE	123	12.198	47.513	9.390	0.00	0.00
ATOM	1954	O	PHE	123	12.229	48.478	8.712	0.00	0.00
ATOM	1955	N	GLU	124	11.204	46.702	9.292	0.00	0.00
ATOM	1956	H	GLU	124	11.231	45.929	9.859	0.00	0.00
ATOM	1957	CA	GLU	124	10.112	46.842	8.352	0.00	0.00
ATOM	1958	HA	GLU	124	10.512	46.970	7.410	0.00	0.00
ATOM	1959	CB	GLU	124	9.311	45.607	8.331	0.00	0.00
ATOM	1960	HB2	GLU	124	9.465	45.080	8.436	0.00	0.00
ATOM	1961	HB3	GLU	124	8.918	45.533	8.627	0.00	0.00
ATOM	1962	CG	GLU	124	8.832	45.154	7.761	0.00	0.00
ATOM	1963	HG2	GLU	124	8.995	45.174	7.457	0.00	0.00
ATOM	1964	HG3	GLU	124	8.679	45.405	7.840	0.00	0.00
ATOM	1965	CD	GLU	124	8.332	44.323	7.506	0.00	0.00
ATOM	1966	OE1	GLU	124	8.195	43.996	7.402	0.00	0.00
ATOM	1967	OE2	GLU	124	8.067	43.988	7.405	0.00	0.00
ATOM	1968	C	GLU	124	9.245	48.027	8.582	0.00	0.00
ATOM	1969	O	GLU	124	8.715	48.566	7.689	0.00	0.00
ATOM	1970	N	SER	125	9.141	48.471	9.765	0.00	0.00
ATOM	1971	H	SER	125	9.569	47.960	10.452	0.00	0.00
ATOM	1972	CA	SER	125	8.445	49.650	10.139	0.00	0.00
ATOM	1973	HA	SER	125	7.798	49.907	9.370	0.00	0.00
ATOM	1974	CB	SER	125	7.621	49.373	11.290	0.00	0.00
ATOM	1975	HB2	SER	125	7.262	50.012	11.633	0.00	0.00
ATOM	1976	HB3	SER	125	7.000	48.896	11.142	0.00	0.00
ATOM	1977	OG	SER	125	8.086	48.909	12.100	0.00	0.00
ATOM	1978	HG	SER	125	7.870	48.467	12.320	0.00	0.00
ATOM	1979	C	SER	125	9.301	50.846	10.372	0.00	0.00
ATOM	1980	O	SER	125	8.875	51.815	10.713	0.00	0.00
ATOM	1981	N	GLY	126	10.506	50.796	10.190	0.00	0.00
ATOM	1982	H	GLY	126	10.796	49.980	9.906	0.00	0.00
ATOM	1983	CA	GLY	126	11.445	51.849	10.353	0.00	0.00
ATOM	1984	HA2	GLY	126	11.688	52.189	9.435	0.00	0.00
ATOM	1985	HA3	GLY	126	11.014	52.612	10.850	0.00	0.00
ATOM	1986	C	GLY	126	12.711	51.517	11.064	0.00	0.00
ATOM	1987	O	GLY	126	12.823	50.506	11.655	0.00	0.00
ATOM	1988	N	ILE	127	13.673	52.383	11.018	0.00	0.00
ATOM	1989	H	ILE	127	13.495	53.194	10.541	0.00	0.00
ATOM	1990	CA	ILE	127	14.982	52.253	11.625	0.00	0.00
ATOM	1991	HA	ILE	127	14.990	51.342	12.190	0.00	0.00
ATOM	1992	CB	ILE	127	16.057	52.104	10.558	0.00	0.00
ATOM	1993	HB	ILE	127	15.832	51.419	10.009	0.00	0.00
ATOM	1994	CG2	ILE	127	16.204	53.116	9.775	0.00	0.00
ATOM	1995	1HG2	ILE	127	16.218	53.357	9.570	0.00	0.00
ATOM	1996	2HG2	ILE	127	16.263	53.383	9.592	0.00	0.00
ATOM	1997	3HG2	ILE	127	16.243	53.351	9.566	0.00	0.00
ATOM	1998	CG1	ILE	127	17.287	51.782	10.972	0.00	0.00
ATOM	1999	2HG1	ILE	127	17.642	52.438	11.170	0.00	0.00
ATOM	2000	3HG1	ILE	127	17.224	51.349	11.622	0.00	0.00
ATOM	2001	CD1	ILE	127	18.152	51.134	10.269	0.00	0.00
ATOM	2002	1HD1	ILE	127	18.357	50.975	10.105	0.00	0.00
ATOM	2003	2HD1	ILE	127	18.361	50.984	10.098	0.00	0.00
ATOM	2004	3HD1	ILE	127	18.382	50.968	10.106	0.00	0.00
ATOM	2005	C	ILE	127	15.256	53.379	12.605	0.00	0.00
ATOM	2006	O	ILE	127	14.982	54.527	12.341	0.00	0.00
ATOM	2007	N	ASN	128	15.808	53.036	13.748	0.00	0.00
ATOM	2008	H	ASN	128	16.023	52.084	13.885	0.00	0.00
ATOM	2009	CA	ASN	128	16.308	53.942	14.765	0.00	0.00
ATOM	2010	HA	ASN	128	16.677	54.831	14.284	0.00	0.00
ATOM	2011	CB	ASN	128	15.163	54.350	15.689	0.00	0.00
ATOM	2012	HB2	ASN	128	15.484	55.114	16.314	0.00	0.00
ATOM	2013	HB3	ASN	128	14.393	54.745	15.117	0.00	0.00
ATOM	2014	CG	ASN	128	14.602	53.298	16.562	0.00	0.00
ATOM	2015	OD1	ASN	128	15.262	52.579	17.223	0.00	0.00
ATOM	2016	ND2	ASN	128	13.371	53.184	16.599	0.00	0.00
ATOM	2017	1HD2	ASN	128	12.965	52.542	17.206	0.00	0.00
ATOM	2018	2HD2	ASN	128	12.829	53.772	16.062	0.00	0.00
ATOM	2019	C	ASN	128	17.492	53.304	15.506	0.00	0.00
ATOM	2020	O	ASN	128	17.732	52.113	15.377	0.00	0.00
ATOM	2021	N	TRP	129	18.225	54.083	16.288	0.00	0.00
ATOM	2022	H	TRP	129	17.975	55.041	16.359	0.00	0.00
ATOM	2023	CA	TRP	129	19.416	53.630	17.002	0.00	0.00
ATOM	2024	HA	TRP	129	20.119	53.245	16.283	0.00	0.00
ATOM	2025	CB	TRP	129	20.057	54.815	17.703	0.00	0.00
ATOM	2026	HB2	TRP	129	20.225	55.552	17.074	0.00	0.00
ATOM	2027	HB3	TRP	129	19.446	55.176	18.368	0.00	0.00
ATOM	2028	CG	TRP	129	21.255	54.618	18.348	0.00	0.00
ATOM	2029	CD1	TRP	129	21.356	54.813	19.468	0.00	0.00
ATOM	2030	HD1	TRP	129	20.586	55.133	20.027	0.00	0.00
ATOM	2031	NE1	TRP	129	22.590	54.561	19.779	0.00	0.00
ATOM	2032	HE1	TRP	129	22.884	54.670	20.573	0.00	0.00
ATOM	2033	CE2	TRP	129	23.353	54.177	18.871	0.00	0.00
ATOM	2034	CZ2	TRP	129	24.643	53.825	18.756	0.00	0.00
ATOM	2035	HZ2	TRP	129	25.229	53.825	19.479	0.00	0.00
ATOM	2036	CH2	TRP	129	25.152	53.475	17.689	0.00	0.00
ATOM	2037	HH2	TRP	129	26.140	53.210	17.586	0.00	0.00
ATOM	2038	CZ3	TRP	129	24.368	53.473	16.756	0.00	0.00
ATOM	2039	HZ3	TRP	129	24.761	53.198	15.942	0.00	0.00

ATOM	2040	CE3	TRP	129	23.073	53.832	16.881	0.00	0.00
ATOM	2041	HE3	TRP	129	22.484	53.832	16.162	0.00	0.00
ATOM	2042	CD2	TRP	129	22.528	54.196	17.940	0.00	0.00
ATOM	2043	C	TRP	129	19.139	52.499	17.986	0.00	0.00
ATOM	2044	O	TRP	129	19.881	51.536	18.028	0.00	0.00
ATOM	2045	N	GLY	130	18.044	52.556	18.726	0.00	0.00
ATOM	2046	H	GLY	130	17.443	53.336	18.611	0.00	0.00
ATOM	2047	CA	GLY	130	17.676	51.517	19.674	0.00	0.00
ATOM	2048	HA2	GLY	130	18.462	51.405	20.393	0.00	0.00
ATOM	2049	HA3	GLY	130	16.788	51.823	20.187	0.00	0.00
ATOM	2050	C	GLY	130	17.413	50.157	19.043	0.00	0.00
ATOM	2051	O	GLY	130	17.837	49.147	19.577	0.00	0.00
ATOM	2052	N	ARG	131	16.809	50.114	17.859	0.00	0.00
ATOM	2053	H	ARG	131	16.472	50.975	17.492	0.00	0.00
ATOM	2054	CA	ARG	131	16.643	48.888	17.070	0.00	0.00
ATOM	2055	HA	ARG	131	16.236	48.118	17.706	0.00	0.00
ATOM	2056	CB	ARG	131	15.661	49.127	15.922	0.00	0.00
ATOM	2057	HB2	ARG	131	15.983	49.969	15.353	0.00	0.00
ATOM	2058	HB3	ARG	131	15.668	48.274	15.281	0.00	0.00
ATOM	2059	CG	ARG	131	14.234	49.352	16.377	0.00	0.00
ATOM	2060	HG2	ARG	131	13.880	48.484	16.860	0.00	0.00
ATOM	2061	HG3	ARG	131	14.198	50.148	17.070	0.00	0.00
ATOM	2062	CD	ARG	131	13.324	49.672	15.220	0.00	0.00
ATOM	2063	HD2	ARG	131	13.739	50.459	14.668	0.00	0.00
ATOM	2064	HD3	ARG	131	13.266	48.833	14.600	0.00	0.00
ATOM	2065	NE	ARG	131	12.002	50.063	15.649	0.00	0.00
ATOM	2066	HE	ARG	131	11.897	50.431	16.532	0.00	0.00
ATOM	2067	CZ	ARG	131	10.939	50.102	14.979	0.00	0.00
ATOM	2068	NH1	ARG	131	10.892	49.728	13.813	0.00	0.00
ATOM	2069	1HH1	ARG	131	11.688	49.414	13.372	0.00	0.00
ATOM	2070	2HH1	ARG	131	10.053	49.752	13.372	0.00	0.00
ATOM	2071	NH2	ARG	131	9.869	50.524	15.494	0.00	0.00
ATOM	2072	1HH2	ARG	131	9.864	50.788	16.410	0.00	0.00
ATOM	2073	2HH2	ARG	131	9.069	50.606	14.988	0.00	0.00
ATOM	2074	C	ARG	131	17.973	48.329	16.569	0.00	0.00
ATOM	2075	O	ARG	131	18.130	47.127	16.519	0.00	0.00
ATOM	2076	N	VAL	132	18.954	49.167	16.269	0.00	0.00
ATOM	2077	H	VAL	132	18.765	50.137	16.342	0.00	0.00
ATOM	2078	CA	VAL	132	20.316	48.730	15.931	0.00	0.00
ATOM	2079	HA	VAL	132	20.243	47.925	15.217	0.00	0.00
ATOM	2080	CB	VAL	132	21.124	49.851	15.268	0.00	0.00
ATOM	2081	HB	VAL	132	21.174	50.682	15.921	0.00	0.00
ATOM	2082	CG1	VAL	132	22.532	49.440	14.940	0.00	0.00
ATOM	2083	1HG1	VAL	132	22.885	49.360	14.885	0.00	0.00
ATOM	2084	2HG1	VAL	132	22.871	49.320	14.867	0.00	0.00
ATOM	2085	3HG1	VAL	132	22.881	49.358	14.838	0.00	0.00
ATOM	2086	CG2	VAL	132	20.491	50.308	13.984	0.00	0.00
ATOM	2087	1HG2	VAL	132	20.324	50.423	13.678	0.00	0.00
ATOM	2088	2HG2	VAL	132	20.340	50.439	13.671	0.00	0.00
ATOM	2089	3HG2	VAL	132	20.342	50.417	13.666	0.00	0.00
ATOM	2090	C	VAL	132	21.035	48.153	17.146	0.00	0.00
ATOM	2091	O	VAL	132	21.642	47.103	17.041	0.00	0.00
ATOM	2092	N	VAL	133	20.914	48.763	18.316	0.00	0.00
ATOM	2093	H	VAL	133	20.431	49.632	18.342	0.00	0.00
ATOM	2094	CA	VAL	133	21.489	48.240	19.560	0.00	0.00
ATOM	2095	HA	VAL	133	22.517	47.995	19.375	0.00	0.00
ATOM	2096	CB	VAL	133	21.474	49.294	20.655	0.00	0.00
ATOM	2097	HB	VAL	133	20.615	49.580	20.802	0.00	0.00
ATOM	2098	CG1	VAL	133	21.949	48.911	21.836	0.00	0.00
ATOM	2099	1HG1	VAL	133	21.990	48.820	22.156	0.00	0.00
ATOM	2100	2HG1	VAL	133	22.076	48.745	22.094	0.00	0.00
ATOM	2101	3HG1	VAL	133	22.114	48.895	22.136	0.00	0.00
ATOM	2102	CG2	VAL	133	22.188	50.415	20.413	0.00	0.00
ATOM	2103	1HG2	VAL	133	22.374	50.686	20.349	0.00	0.00
ATOM	2104	2HG2	VAL	133	22.344	50.691	20.348	0.00	0.00
ATOM	2105	3HG2	VAL	133	22.363	50.706	20.367	0.00	0.00
ATOM	2106	C	VAL	133	20.831	46.939	19.999	0.00	0.00
ATOM	2107	O	VAL	133	21.518	46.048	20.466	0.00	0.00
ATOM	2108	N	ALA	134	19.536	46.764	19.775	0.00	0.00
ATOM	2109	H	ALA	134	19.003	47.537	19.446	0.00	0.00
ATOM	2110	CA	ALA	134	18.853	45.503	20.015	0.00	0.00
ATOM	2111	HA	ALA	134	19.064	45.193	21.022	0.00	0.00
ATOM	2112	CB	ALA	134	17.355	45.724	19.898	0.00	0.00
ATOM	2113	HB1	ALA	134	16.996	45.802	19.888	0.00	0.00
ATOM	2114	HB2	ALA	134	16.992	45.770	19.844	0.00	0.00
ATOM	2115	HB3	ALA	134	16.986	45.749	19.894	0.00	0.00
ATOM	2116	C	ALA	134	19.341	44.375	19.101	0.00	0.00
ATOM	2117	O	ALA	134	19.532	43.264	19.559	0.00	0.00
ATOM	2118	N	LEU	135	19.617	44.657	17.837	0.00	0.00
ATOM	2119	H	LEU	135	19.420	45.573	17.512	0.00	0.00
ATOM	2120	CA	LEU	135	20.204	43.697	16.908	0.00	0.00
ATOM	2121	HA	LEU	135	19.614	42.802	16.946	0.00	0.00
ATOM	2122	CB	LEU	135	20.134	44.270	15.501	0.00	0.00
ATOM	2123	HB2	LEU	135	19.136	44.567	15.294	0.00	0.00
ATOM	2124	HB3	LEU	135	20.724	45.142	15.461	0.00	0.00
ATOM	2125	CG	LEU	135	20.595	43.337	14.413	0.00	0.00
ATOM	2126	HG	LEU	135	21.481	43.031	14.588	0.00	0.00
ATOM	2127	CD1	LEU	135	19.839	42.231	14.231	0.00	0.00
ATOM	2128	1HD1	LEU	135	19.627	41.995	14.180	0.00	0.00
ATOM	2129	2HD1	LEU	135	19.687	41.934	14.161	0.00	0.00
ATOM	2130	3HD1	LEU	135	19.664	41.942	14.215	0.00	0.00
ATOM	2131	CD2	LEU	135	20.634	43.931	13.190	0.00	0.00
ATOM	2132	1HD2	LEU	135	20.650	44.052	12.890	0.00	0.00
ATOM	2133	2HD2	LEU	135	20.625	44.089	12.902	0.00	0.00
ATOM	2134	3HD2	LEU	135	20.671	44.080	12.889	0.00	0.00
ATOM	2135	C	LEU	135	21.627	43.301	17.298	0.00	0.00
ATOM	2136	O	LEU	135	21.980	42.138	17.214	0.00	0.00
ATOM	2137	N	LEU	136	22.431	44.242	17.772	0.00	0.00
ATOM	2138	H	LEU	136	22.090	45.175	17.787	0.00	0.00
ATOM	2139	CA	LEU	136	23.774	43.982	18.281	0.00	0.00
ATOM	2140	HA	LEU	136	24.305	43.393	17.556	0.00	0.00
ATOM	2141	CB	LEU	136	24.502	45.308	18.468	0.00	0.00
ATOM	2142	HB2	LEU	136	24.067	45.951	18.437	0.00	0.00
ATOM	2143	HB3	LEU	136	24.821	45.391	19.155	0.00	0.00
ATOM	2144	CG	LEU	136	25.386	45.697	17.821	0.00	0.00

ATOM	2145	HG	LEU	136	25.112	45.470	17.784	0.00	0.00
ATOM	2146	CD1	LEU	136	25.929	46.231	17.433	0.00	0.00
ATOM	2147	1HD1	LEU	136	26.037	46.361	17.311	0.00	0.00
ATOM	2148	2HD1	LEU	136	26.091	46.342	17.358	0.00	0.00
ATOM	2149	3HD1	LEU	136	26.053	46.382	17.349	0.00	0.00
ATOM	2150	CD2	LEU	136	26.142	45.919	17.606	0.00	0.00
ATOM	2151	1HD2	LEU	136	26.340	45.977	17.549	0.00	0.00
ATOM	2152	2HD2	LEU	136	26.295	45.965	17.577	0.00	0.00
ATOM	2153	3HD2	LEU	136	26.342	45.976	17.538	0.00	0.00
ATOM	2154	C	LEU	136	23.756	43.159	19.565	0.00	0.00
ATOM	2155	O	LEU	136	24.551	42.252	19.707	0.00	0.00
ATOM	2156	N	GLY	137	22.815	43.416	20.462	0.00	0.00
ATOM	2157	H	GLY	137	22.225	44.196	20.298	0.00	0.00
ATOM	2158	CA	GLY	137	22.608	42.655	21.683	0.00	0.00
ATOM	2159	HA2	GLY	137	23.509	42.656	22.261	0.00	0.00
ATOM	2160	HA3	GLY	137	21.838	43.132	22.252	0.00	0.00
ATOM	2161	C	GLY	137	22.194	41.213	21.441	0.00	0.00
ATOM	2162	O	GLY	137	22.755	40.312	22.034	0.00	0.00
ATOM	2163	N	PHE	138	21.287	40.972	20.507	0.00	0.00
ATOM	2164	H	PHE	138	20.831	41.745	20.087	0.00	0.00
ATOM	2165	CA	PHE	138	20.947	39.629	20.055	0.00	0.00
ATOM	2166	HA	PHE	138	20.737	39.029	20.924	0.00	0.00
ATOM	2167	CB	PHE	138	19.691	39.673	19.199	0.00	0.00
ATOM	2168	HB2	PHE	138	18.913	40.147	19.751	0.00	0.00
ATOM	2169	HB3	PHE	138	19.876	40.274	18.345	0.00	0.00
ATOM	2170	CG	PHE	138	19.191	38.345	18.747	0.00	0.00
ATOM	2171	CD1	PHE	138	18.906	37.642	18.848	0.00	0.00
ATOM	2172	HD1	PHE	138	19.026	38.041	19.245	0.00	0.00
ATOM	2173	CE1	PHE	138	18.470	36.414	18.433	0.00	0.00
ATOM	2174	HE1	PHE	138	18.257	35.884	18.511	0.00	0.00
ATOM	2175	CZ	PHE	138	18.308	35.880	17.917	0.00	0.00
ATOM	2176	HZ	PHE	138	17.971	34.942	17.602	0.00	0.00
ATOM	2177	CE2	PHE	138	18.579	36.577	17.816	0.00	0.00
ATOM	2178	HE2	PHE	138	18.448	36.171	17.423	0.00	0.00
ATOM	2179	CD2	PHE	138	19.017	37.805	18.230	0.00	0.00
ATOM	2180	HD2	PHE	138	19.223	38.331	18.151	0.00	0.00
ATOM	2181	C	PHE	138	22.112	38.962	19.320	0.00	0.00
ATOM	2182	O	PHE	138	22.398	37.805	19.560	0.00	0.00
ATOM	2183	N	GLY	139	22.841	39.699	18.491	0.00	0.00
ATOM	2184	H	GLY	139	22.542	40.631	18.320	0.00	0.00
ATOM	2185	CA	GLY	139	24.035	39.235	17.799	0.00	0.00
ATOM	2186	HA2	GLY	139	23.776	38.427	17.143	0.00	0.00
ATOM	2187	HA3	GLY	139	24.418	40.044	17.209	0.00	0.00
ATOM	2188	C	GLY	139	25.145	38.762	18.729	0.00	0.00
ATOM	2189	O	GLY	139	25.749	37.739	18.468	0.00	0.00
ATOM	2190	N	TYR	140	25.370	39.440	19.848	0.00	0.00
ATOM	2191	H	TYR	140	24.873	40.291	19.983	0.00	0.00
ATOM	2192	CA	TYR	140	26.290	39.003	20.895	0.00	0.00
ATOM	2193	HA	TYR	140	27.259	38.830	20.453	0.00	0.00
ATOM	2194	CB	TYR	140	26.440	40.100	21.945	0.00	0.00
ATOM	2195	HB2	TYR	140	26.992	40.906	21.510	0.00	0.00
ATOM	2196	HB3	TYR	140	25.472	40.478	22.195	0.00	0.00
ATOM	2197	CG	TYR	140	27.134	39.685	23.217	0.00	0.00
ATOM	2198	CD1	TYR	140	28.446	39.289	23.202	0.00	0.00
ATOM	2199	HD1	TYR	140	28.955	39.288	22.293	0.00	0.00
ATOM	2200	CE1	TYR	140	29.087	38.878	24.367	0.00	0.00
ATOM	2201	HE1	TYR	140	30.088	38.573	24.358	0.00	0.00
ATOM	2202	CZ	TYR	140	28.412	38.856	25.559	0.00	0.00
ATOM	2203	OH	TYR	140	29.033	38.459	26.679	0.00	0.00
ATOM	2204	HH	TYR	140	28.474	38.440	27.416	0.00	0.00
ATOM	2205	CE2	TYR	140	27.098	39.257	25.579	0.00	0.00
ATOM	2206	HE2	TYR	140	26.590	39.259	26.493	0.00	0.00
ATOM	2207	CD2	TYR	140	26.463	39.670	24.412	0.00	0.00
ATOM	2208	HD2	TYR	140	25.463	39.978	24.436	0.00	0.00
ATOM	2209	C	TYR	140	25.854	37.686	21.530	0.00	0.00
ATOM	2210	O	TYR	140	26.649	36.768	21.630	0.00	0.00
ATOM	2211	N	ARG	141	24.587	37.551	21.903	0.00	0.00
ATOM	2212	H	ARG	141	23.981	38.327	21.770	0.00	0.00
ATOM	2213	CA	ARG	141	24.057	36.324	22.502	0.00	0.00
ATOM	2214	HA	ARG	141	24.731	36.013	23.285	0.00	0.00
ATOM	2215	CB	ARG	141	22.684	36.587	23.115	0.00	0.00
ATOM	2216	HB2	ARG	141	22.038	37.002	22.372	0.00	0.00
ATOM	2217	HB3	ARG	141	22.263	35.655	23.425	0.00	0.00
ATOM	2218	CG	ARG	141	22.700	37.514	24.317	0.00	0.00
ATOM	2219	HG2	ARG	141	23.162	38.375	24.090	0.00	0.00
ATOM	2220	HG3	ARG	141	21.756	37.744	24.570	0.00	0.00
ATOM	2221	CD	ARG	141	23.330	36.981	25.494	0.00	0.00
ATOM	2222	HD2	ARG	141	22.861	36.154	25.725	0.00	0.00
ATOM	2223	HD3	ARG	141	24.253	36.751	25.256	0.00	0.00
ATOM	2224	NE	ARG	141	23.338	37.857	26.626	0.00	0.00
ATOM	2225	HE	ARG	141	22.721	38.576	26.657	0.00	0.00
ATOM	2226	CZ	ARG	141	24.140	37.859	27.582	0.00	0.00
ATOM	2227	NH1	ARG	141	25.012	37.004	27.707	0.00	0.00
ATOM	2228	1HH1	ARG	141	25.026	36.220	27.157	0.00	0.00
ATOM	2229	2HH1	ARG	141	25.636	37.125	28.405	0.00	0.00
ATOM	2230	NH2	ARG	141	24.089	38.752	28.454	0.00	0.00
ATOM	2231	1HH2	ARG	141	23.385	39.381	28.454	0.00	0.00
ATOM	2232	2HH2	ARG	141	24.702	38.736	29.173	0.00	0.00
ATOM	2233	C	ARG	141	24.047	35.153	21.532	0.00	0.00
ATOM	2234	O	ARG	141	24.342	34.050	21.940	0.00	0.00
ATOM	2235	N	LEU	142	23.811	35.384	20.253	0.00	0.00
ATOM	2236	H	LEU	142	23.530	36.302	20.003	0.00	0.00
ATOM	2237	CA	LEU	142	23.951	34.393	19.197	0.00	0.00
ATOM	2238	HA	LEU	142	23.371	33.529	19.467	0.00	0.00
ATOM	2239	CB	LEU	142	23.378	34.976	17.907	0.00	0.00
ATOM	2240	HB2	LEU	142	22.401	35.285	18.088	0.00	0.00
ATOM	2241	HB3	LEU	142	23.914	35.831	17.648	0.00	0.00
ATOM	2242	CG	LEU	142	23.358	34.085	16.719	0.00	0.00
ATOM	2243	HG	LEU	142	23.876	33.820	16.603	0.00	0.00
ATOM	2244	CD1	LEU	142	22.806	33.320	16.524	0.00	0.00
ATOM	2245	1HD1	LEU	142	22.657	33.115	16.466	0.00	0.00
ATOM	2246	2HD1	LEU	142	22.676	33.136	16.454	0.00	0.00
ATOM	2247	3HD1	LEU	142	22.686	33.140	16.499	0.00	0.00
ATOM	2248	CD2	LEU	142	23.158	34.337	15.800	0.00	0.00
ATOM	2249	1HD2	LEU	142	23.099	34.417	15.581	0.00	0.00

ATOM	2250	ZHD2	LEU	142	23.143	34.396	15.545	0.00	0.00
ATOM	2251	3HD2	LEU	142	23.091	34.378	15.595	0.00	0.00
ATOM	2252	C	LEU	142	25.397	33.928	19.045	0.00	0.00
ATOM	2253	O	LEU	142	25.654	32.743	19.043	0.00	0.00
ATOM	2254	N	ALA	143	26.345	34.845	18.985	0.00	0.00
ATOM	2255	H	ALA	143	26.075	35.799	18.991	0.00	0.00
ATOM	2256	CA	ALA	143	27.758	34.539	18.882	0.00	0.00
ATOM	2257	HA	ALA	143	27.908	33.907	18.027	0.00	0.00
ATOM	2258	CB	ALA	143	28.512	35.831	18.651	0.00	0.00
ATOM	2259	HB1	ALA	143	28.702	36.140	18.591	0.00	0.00
ATOM	2260	HB2	ALA	143	28.695	36.145	18.590	0.00	0.00
ATOM	2261	HB3	ALA	143	28.699	36.144	18.598	0.00	0.00
ATOM	2262	C	ALA	143	28.284	33.777	20.094	0.00	0.00
ATOM	2263	O	ALA	143	28.986	32.800	19.943	0.00	0.00
ATOM	2264	N	LEU	144	27.891	34.163	21.292	0.00	0.00
ATOM	2265	H	LEU	144	27.347	34.988	21.359	0.00	0.00
ATOM	2266	CA	LEU	144	28.260	33.482	22.516	0.00	0.00
ATOM	2267	HA	LEU	144	29.321	33.348	22.504	0.00	0.00
ATOM	2268	CB	LEU	144	27.900	34.364	23.696	0.00	0.00
ATOM	2269	HB2	LEU	144	27.973	35.249	23.520	0.00	0.00
ATOM	2270	HB3	LEU	144	27.049	34.254	23.909	0.00	0.00
ATOM	2271	CG	LEU	144	28.546	34.241	24.836	0.00	0.00
ATOM	2272	HG	LEU	144	28.321	33.583	24.959	0.00	0.00
ATOM	2273	CD1	LEU	144	29.715	34.336	25.058	0.00	0.00
ATOM	2274	1HD1	LEU	144	29.995	34.365	25.121	0.00	0.00
ATOM	2275	2HD1	LEU	144	30.001	34.354	25.124	0.00	0.00
ATOM	2276	3HD1	LEU	144	30.003	34.350	25.105	0.00	0.00
ATOM	2277	CD2	LEU	144	28.314	34.943	25.658	0.00	0.00
ATOM	2278	1HD2	LEU	144	28.280	35.107	25.862	0.00	0.00
ATOM	2279	2HD2	LEU	144	28.229	35.087	25.871	0.00	0.00
ATOM	2280	3HD2	LEU	144	28.258	35.137	25.844	0.00	0.00
ATOM	2281	C	LEU	144	27.650	32.089	22.614	0.00	0.00
ATOM	2282	O	LEU	144	28.314	31.176	23.049	0.00	0.00
ATOM	2283	N	HIP	145	26.437	31.886	22.141	0.00	0.00
ATOM	2284	H	HIP	145	25.935	32.671	21.812	0.00	0.00
ATOM	2285	CA	HIP	145	25.786	30.585	22.133	0.00	0.00
ATOM	2286	HA	HIP	145	25.811	30.203	23.128	0.00	0.00
ATOM	2287	CB	HIP	145	24.340	30.749	21.733	0.00	0.00
ATOM	2288	HB2	HIP	145	23.926	31.513	22.235	0.00	0.00
ATOM	2289	HB3	HIP	145	24.267	30.983	20.769	0.00	0.00
ATOM	2290	CG	HIP	145	23.507	29.639	21.965	0.00	0.00
ATOM	2291	ND1	HIP	145	23.079	28.979	22.177	0.00	0.00
ATOM	2292	HD1	HIP	145	23.287	29.130	22.205	0.00	0.00
ATOM	2293	CE1	HIP	145	22.338	28.091	22.348	0.00	0.00
ATOM	2294	HE1	HIP	145	21.866	27.432	22.536	0.00	0.00
ATOM	2295	NE2	HIP	145	22.284	28.167	22.250	0.00	0.00
ATOM	2296	HE2	HIP	145	21.794	27.622	22.341	0.00	0.00
ATOM	2297	CD2	HIP	145	23.010	29.132	22.008	0.00	0.00
ATOM	2298	HD2	HIP	145	23.154	29.433	21.882	0.00	0.00
ATOM	2299	C	HIP	145	26.502	29.560	21.278	0.00	0.00
ATOM	2300	O	HIP	145	26.613	28.435	21.670	0.00	0.00
ATOM	2301	N	VAL	146	27.043	29.941	20.153	0.00	0.00
ATOM	2302	H	VAL	146	26.902	30.870	19.878	0.00	0.00
ATOM	2303	CA	VAL	146	27.855	29.060	19.322	0.00	0.00
ATOM	2304	HA	VAL	146	27.395	28.099	19.311	0.00	0.00
ATOM	2305	CB	VAL	146	27.902	29.525	17.890	0.00	0.00
ATOM	2306	HB	VAL	146	28.374	29.449	17.636	0.00	0.00
ATOM	2307	CG1	VAL	146	27.430	29.250	17.142	0.00	0.00
ATOM	2308	1HG1	VAL	146	27.295	29.193	16.947	0.00	0.00
ATOM	2309	2HG1	VAL	146	27.336	29.203	16.922	0.00	0.00
ATOM	2310	3HG1	VAL	146	27.321	29.152	16.993	0.00	0.00
ATOM	2311	CG2	VAL	146	27.766	30.334	17.448	0.00	0.00
ATOM	2312	1HG2	VAL	146	27.729	30.547	17.337	0.00	0.00
ATOM	2313	2HG2	VAL	146	27.744	30.527	17.333	0.00	0.00
ATOM	2314	3HG2	VAL	146	27.727	30.522	17.329	0.00	0.00
ATOM	2315	C	VAL	146	29.233	28.837	19.900	0.00	0.00
ATOM	2316	O	VAL	146	29.708	27.730	19.918	0.00	0.00
ATOM	2317	N	TYR	147	29.840	29.849	20.470	0.00	0.00
ATOM	2318	H	TYR	147	29.409	30.732	20.419	0.00	0.00
ATOM	2319	CA	TYR	147	31.115	29.760	21.146	0.00	0.00
ATOM	2320	HA	TYR	147	31.835	29.370	20.462	0.00	0.00
ATOM	2321	CB	TYR	147	31.540	31.160	21.542	0.00	0.00
ATOM	2322	HB2	TYR	147	31.537	31.755	20.722	0.00	0.00
ATOM	2323	HB3	TYR	147	30.861	31.563	22.178	0.00	0.00
ATOM	2324	CG	TYR	147	32.825	31.309	22.152	0.00	0.00
ATOM	2325	CD1	TYR	147	33.076	31.318	23.342	0.00	0.00
ATOM	2326	HD1	TYR	147	32.361	31.207	23.826	0.00	0.00
ATOM	2327	CE1	TYR	147	34.263	31.469	23.903	0.00	0.00
ATOM	2328	HE1	TYR	147	34.454	31.470	24.810	0.00	0.00
ATOM	2329	CZ	TYR	147	35.203	31.619	23.276	0.00	0.00
ATOM	2330	OH	TYR	147	36.345	31.761	23.803	0.00	0.00
ATOM	2331	HH	TYR	147	36.562	31.783	24.529	0.00	0.00
ATOM	2332	CE2	TYR	147	34.952	31.623	22.089	0.00	0.00
ATOM	2333	HE2	TYR	147	35.674	31.743	21.618	0.00	0.00
ATOM	2334	CD2	TYR	147	33.766	31.466	21.529	0.00	0.00
ATOM	2335	HD2	TYR	147	33.579	31.465	20.622	0.00	0.00
ATOM	2336	C	TYR	147	31.080	28.819	22.333	0.00	0.00
ATOM	2337	O	TYR	147	31.945	28.028	22.505	0.00	0.00
ATOM	2338	N	GLN	148	30.043	28.834	23.108	0.00	0.00
ATOM	2339	H	GLN	148	29.383	29.525	22.936	0.00	0.00
ATOM	2340	CA	GLN	148	29.823	27.950	24.232	0.00	0.00
ATOM	2341	HA	GLN	148	30.669	27.912	24.805	0.00	0.00
ATOM	2342	CB	GLN	148	28.766	28.478	25.073	0.00	0.00
ATOM	2343	HB2	GLN	148	28.081	28.765	24.589	0.00	0.00
ATOM	2344	HB3	GLN	148	28.447	27.844	25.645	0.00	0.00
ATOM	2345	CG	GLN	148	29.060	29.455	25.825	0.00	0.00
ATOM	2346	HG2	GLN	148	29.636	29.178	26.310	0.00	0.00
ATOM	2347	HG3	GLN	148	29.395	30.053	25.352	0.00	0.00
ATOM	2348	CD	GLN	148	28.149	30.017	26.582	0.00	0.00
ATOM	2349	OE1	GLN	148	27.277	29.992	26.433	0.00	0.00
ATOM	2350	NE2	GLN	148	28.316	30.550	27.424	0.00	0.00
ATOM	2351	1HE2	GLN	148	27.725	30.907	27.927	0.00	0.00
ATOM	2352	2HE2	GLN	148	29.024	30.565	27.579	0.00	0.00
ATOM	2353	C	GLN	148	29.549	26.557	23.874	0.00	0.00
ATOM	2354	O	GLN	148	29.657	25.723	24.661	0.00	0.00

ATOM	2355	N	HIP	149	29.245	26.284	22.681	0.00	0.00
ATOM	2356	H	HIP	149	29.150	27.016	22.094	0.00	0.00
ATOM	2357	CA	HIP	149	29.098	24.995	22.156	0.00	0.00
ATOM	2358	HA	HIP	149	28.972	24.340	22.938	0.00	0.00
ATOM	2359	CB	HIP	149	27.889	24.946	21.392	0.00	0.00
ATOM	2360	HB2	HIP	149	27.444	25.599	21.350	0.00	0.00
ATOM	2361	HB3	HIP	149	27.990	24.800	20.673	0.00	0.00
ATOM	2362	CG	HIP	149	27.108	24.230	21.635	0.00	0.00
ATOM	2363	ND1	HIP	149	26.619	23.808	22.057	0.00	0.00
ATOM	2364	HD1	HIP	149	26.718	23.924	22.254	0.00	0.00
ATOM	2365	CE1	HIP	149	26.000	23.211	22.168	0.00	0.00
ATOM	2366	HE1	HIP	149	25.531	22.778	22.484	0.00	0.00
ATOM	2367	NE2	HIP	149	26.080	23.243	21.827	0.00	0.00
ATOM	2368	HE2	HIP	149	25.713	22.866	21.829	0.00	0.00
ATOM	2369	CD2	HIP	149	26.769	23.878	21.491	0.00	0.00
ATOM	2370	HD2	HIP	149	27.007	24.062	21.183	0.00	0.00
ATOM	2371	C	HIP	149	30.285	24.509	21.420	0.00	0.00
ATOM	2372	O	HIP	149	30.228	23.703	20.678	0.00	0.00
ATOM	2373	N	GLY	150	31.369	25.007	21.608	0.00	0.00
ATOM	2374	H	GLY	150	31.353	25.663	22.224	0.00	0.00
ATOM	2375	CA	GLY	150	32.598	24.605	21.047	0.00	0.00
ATOM	2376	HA2	GLY	150	33.272	24.880	21.635	0.00	0.00
ATOM	2377	HA3	GLY	150	32.626	23.666	21.005	0.00	0.00
ATOM	2378	C	GLY	150	33.013	25.050	19.746	0.00	0.00
ATOM	2379	O	GLY	150	33.960	24.688	19.322	0.00	0.00
ATOM	2380	N	LEU	151	32.333	25.836	19.110	0.00	0.00
ATOM	2381	H	LEU	151	31.583	26.121	19.525	0.00	0.00
ATOM	2382	CA	LEU	151	32.590	26.316	17.840	0.00	0.00
ATOM	2383	HA	LEU	151	33.234	25.661	17.384	0.00	0.00
ATOM	2384	CB	LEU	151	31.370	26.300	17.088	0.00	0.00
ATOM	2385	HB2	LEU	151	30.771	26.583	17.503	0.00	0.00
ATOM	2386	HB3	LEU	151	31.373	26.782	16.439	0.00	0.00
ATOM	2387	CG	LEU	151	30.914	25.309	16.624	0.00	0.00
ATOM	2388	HG	LEU	151	30.934	25.173	17.138	0.00	0.00
ATOM	2389	CD1	LEU	151	30.171	25.109	16.137	0.00	0.00
ATOM	2390	1HD1	LEU	151	29.990	25.048	15.987	0.00	0.00
ATOM	2391	2HD1	LEU	151	29.980	25.015	16.025	0.00	0.00
ATOM	2392	3HD1	LEU	151	30.003	25.112	16.049	0.00	0.00
ATOM	2393	CD2	LEU	151	31.111	24.689	15.910	0.00	0.00
ATOM	2394	1HD2	LEU	151	31.197	24.539	15.766	0.00	0.00
ATOM	2395	2HD2	LEU	151	31.145	24.528	15.780	0.00	0.00
ATOM	2396	3HD2	LEU	151	31.134	24.539	15.667	0.00	0.00
ATOM	2397	C	LEU	151	33.269	27.635	17.851	0.00	0.00
ATOM	2398	O	LEU	151	32.806	28.580	17.342	0.00	0.00
ATOM	2399	N	THR	152	34.378	27.712	18.462	0.00	0.00
ATOM	2400	H	THR	152	34.719	26.908	18.845	0.00	0.00
ATOM	2401	CA	THR	152	35.113	28.903	18.675	0.00	0.00
ATOM	2402	HA	THR	152	34.463	29.621	19.078	0.00	0.00
ATOM	2403	CB	THR	152	36.187	28.690	19.646	0.00	0.00
ATOM	2404	HB	THR	152	36.771	29.165	19.642	0.00	0.00
ATOM	2405	CG2	THR	152	35.945	28.734	20.667	0.00	0.00
ATOM	2406	1HG2	THR	152	35.891	28.760	20.911	0.00	0.00
ATOM	2407	2HG2	THR	152	35.876	28.751	20.927	0.00	0.00
ATOM	2408	3HG2	THR	152	35.906	28.733	20.918	0.00	0.00
ATOM	2409	OG1	THR	152	36.696	27.822	19.649	0.00	0.00
ATOM	2410	HG1	THR	152	37.316	27.725	20.084	0.00	0.00
ATOM	2411	C	THR	152	35.666	29.475	17.445	0.00	0.00
ATOM	2412	O	THR	152	35.742	30.618	17.317	0.00	0.00
ATOM	2413	N	GLY	153	35.980	28.705	16.503	0.00	0.00
ATOM	2414	H	GLY	153	35.906	27.782	16.672	0.00	0.00
ATOM	2415	CA	GLY	153	36.405	29.115	15.233	0.00	0.00
ATOM	2416	HA2	GLY	153	37.151	29.820	15.329	0.00	0.00
ATOM	2417	HA3	GLY	153	36.793	28.285	14.751	0.00	0.00
ATOM	2418	C	GLY	153	35.364	29.697	14.376	0.00	0.00
ATOM	2419	O	GLY	153	35.641	30.290	13.450	0.00	0.00
ATOM	2420	N	PHE	154	34.167	29.568	14.695	0.00	0.00
ATOM	2421	H	PHE	154	34.004	29.060	15.462	0.00	0.00
ATOM	2422	CA	PHE	154	33.064	30.075	13.978	0.00	0.00
ATOM	2423	HA	PHE	154	33.300	30.087	12.971	0.00	0.00
ATOM	2424	CB	PHE	154	31.958	29.133	14.160	0.00	0.00
ATOM	2425	HB2	PHE	154	32.178	28.363	14.363	0.00	0.00
ATOM	2426	HB3	PHE	154	31.501	29.344	14.770	0.00	0.00
ATOM	2427	CG	PHE	154	31.158	28.889	13.299	0.00	0.00
ATOM	2428	CD1	PHE	154	30.751	28.809	12.915	0.00	0.00
ATOM	2429	HD1	PHE	154	31.013	28.936	13.224	0.00	0.00
ATOM	2430	CE1	PHE	154	30.005	28.567	12.126	0.00	0.00
ATOM	2431	HE1	PHE	154	29.697	28.512	11.835	0.00	0.00
ATOM	2432	CZ	PHE	154	29.660	28.398	11.718	0.00	0.00
ATOM	2433	HZ	PHE	154	29.090	28.215	11.114	0.00	0.00
ATOM	2434	CE2	PHE	154	30.061	28.471	12.097	0.00	0.00
ATOM	2435	HE2	PHE	154	29.797	28.341	11.784	0.00	0.00
ATOM	2436	CD2	PHE	154	30.808	28.715	12.885	0.00	0.00
ATOM	2437	HD2	PHE	154	31.111	28.767	13.173	0.00	0.00
ATOM	2438	C	PHE	154	32.698	31.488	14.320	0.00	0.00
ATOM	2439	O	PHE	154	31.932	32.095	13.623	0.00	0.00
ATOM	2440	N	LEU	155	33.263	32.054	15.355	0.00	0.00
ATOM	2441	H	LEU	155	33.891	31.522	15.880	0.00	0.00
ATOM	2442	CA	LEU	155	32.997	33.398	15.776	0.00	0.00
ATOM	2443	HA	LEU	155	31.961	33.472	15.965	0.00	0.00
ATOM	2444	CB	LEU	155	33.729	33.645	17.072	0.00	0.00
ATOM	2445	HB2	LEU	155	33.685	32.970	17.601	0.00	0.00
ATOM	2446	HB3	LEU	155	34.564	33.758	16.942	0.00	0.00
ATOM	2447	CG	LEU	155	33.454	34.608	17.862	0.00	0.00
ATOM	2448	HG	LEU	155	33.584	35.000	17.409	0.00	0.00
ATOM	2449	CD1	LEU	155	32.639	34.849	18.414	0.00	0.00
ATOM	2450	1HD1	LEU	155	32.465	34.931	18.536	0.00	0.00
ATOM	2451	2HD1	LEU	155	32.421	34.915	18.520	0.00	0.00
ATOM	2452	3HD1	LEU	155	32.437	34.891	18.586	0.00	0.00
ATOM	2453	CD2	LEU	155	33.848	34.825	18.785	0.00	0.00
ATOM	2454	1HD2	LEU	155	33.952	34.886	18.987	0.00	0.00
ATOM	2455	2HD2	LEU	155	33.923	34.872	19.037	0.00	0.00
ATOM	2456	3HD2	LEU	155	33.963	34.881	19.004	0.00	0.00
ATOM	2457	C	LEU	155	33.321	34.421	14.706	0.00	0.00
ATOM	2458	O	LEU	155	32.600	35.366	14.543	0.00	0.00
ATOM	2459	N	GLY	156	34.347	34.211	13.923	0.00	0.00

ATOM	2460	H	GLY	156	34.911	33.439	14.113	0.00	0.00
ATOM	2461	CA	GLY	156	34.664	35.014	12.767	0.00	0.00
ATOM	2462	HA2	GLY	156	34.765	36.024	13.062	0.00	0.00
ATOM	2463	HA3	GLY	156	35.592	34.688	12.376	0.00	0.00
ATOM	2464	C	GLY	156	33.641	34.930	11.657	0.00	0.00
ATOM	2465	O	GLY	156	33.314	35.906	11.064	0.00	0.00
ATOM	2466	N	GLN	157	33.065	33.795	11.422	0.00	0.00
ATOM	2467	H	GLN	157	33.359	33.040	11.952	0.00	0.00
ATOM	2468	CA	GLN	157	32.022	33.591	10.435	0.00	0.00
ATOM	2469	HA	GLN	157	32.310	34.082	9.533	0.00	0.00
ATOM	2470	CB	GLN	157	31.876	32.124	10.127	0.00	0.00
ATOM	2471	HB2	GLN	157	31.885	31.627	10.761	0.00	0.00
ATOM	2472	HB3	GLN	157	31.177	31.926	9.781	0.00	0.00
ATOM	2473	CG	GLN	157	32.619	31.565	9.411	0.00	0.00
ATOM	2474	HG2	GLN	157	32.804	31.644	9.323	0.00	0.00
ATOM	2475	HG3	GLN	157	32.825	31.416	9.374	0.00	0.00
ATOM	2476	CD	GLN	157	32.842	31.065	8.850	0.00	0.00
ATOM	2477	OE1	GLN	157	32.722	31.026	8.811	0.00	0.00
ATOM	2478	NE2	GLN	157	33.178	30.665	8.393	0.00	0.00
ATOM	2479	1HE2	GLN	157	33.322	30.337	8.028	0.00	0.00
ATOM	2480	2HE2	GLN	157	33.289	30.684	8.406	0.00	0.00
ATOM	2481	C	GLN	157	30.700	34.203	10.850	0.00	0.00
ATOM	2482	O	GLN	157	30.038	34.802	10.032	0.00	0.00
ATOM	2483	N	VAL	158	30.342	34.146	12.119	0.00	0.00
ATOM	2484	H	VAL	158	30.893	33.598	12.729	0.00	0.00
ATOM	2485	CA	VAL	158	29.172	34.835	12.650	0.00	0.00
ATOM	2486	HA	VAL	158	28.341	34.614	12.013	0.00	0.00
ATOM	2487	CB	VAL	158	28.813	34.350	14.038	0.00	0.00
ATOM	2488	HB	VAL	158	29.347	34.237	14.434	0.00	0.00
ATOM	2489	CG1	VAL	158	28.218	34.850	14.746	0.00	0.00
ATOM	2490	1HG1	VAL	158	28.109	34.954	14.952	0.00	0.00
ATOM	2491	2HG1	VAL	158	28.085	35.008	14.896	0.00	0.00
ATOM	2492	3HG1	VAL	158	28.027	34.945	14.920	0.00	0.00
ATOM	2493	CG2	VAL	158	28.282	33.464	14.241	0.00	0.00
ATOM	2494	1HG2	VAL	158	28.152	33.233	14.271	0.00	0.00
ATOM	2495	2HG2	VAL	158	28.174	33.234	14.302	0.00	0.00
ATOM	2496	3HG2	VAL	158	28.138	33.264	14.304	0.00	0.00
ATOM	2497	C	VAL	158	29.344	36.333	12.609	0.00	0.00
ATOM	2498	O	VAL	158	28.421	37.029	12.254	0.00	0.00
ATOM	2499	N	THR	159	30.534	36.839	12.875	0.00	0.00
ATOM	2500	H	THR	159	31.245	36.225	13.178	0.00	0.00
ATOM	2501	CA	THR	159	30.856	38.248	12.726	0.00	0.00
ATOM	2502	HA	THR	159	30.177	38.819	13.323	0.00	0.00
ATOM	2503	CB	THR	159	32.262	38.541	13.211	0.00	0.00
ATOM	2504	HB	THR	159	32.928	38.048	12.667	0.00	0.00
ATOM	2505	CG2	THR	159	32.605	39.891	13.164	0.00	0.00
ATOM	2506	1HG2	THR	159	32.701	40.215	13.155	0.00	0.00
ATOM	2507	2HG2	THR	159	32.701	40.214	13.138	0.00	0.00
ATOM	2508	3HG2	THR	159	32.684	40.222	13.156	0.00	0.00
ATOM	2509	OG1	THR	159	32.465	38.183	14.455	0.00	0.00
ATOM	2510	HG1	THR	159	32.555	37.311	14.538	0.00	0.00
ATOM	2511	C	THR	159	30.675	38.706	11.295	0.00	0.00
ATOM	2512	O	THR	159	30.039	39.704	11.060	0.00	0.00
ATOM	2513	N	ARG	160	31.149	37.950	10.323	0.00	0.00
ATOM	2514	H	ARG	160	31.664	37.151	10.580	0.00	0.00
ATOM	2515	CA	ARG	160	30.972	38.237	8.906	0.00	0.00
ATOM	2516	HA	ARG	160	31.307	39.236	8.730	0.00	0.00
ATOM	2517	CB	ARG	160	31.830	37.290	8.092	0.00	0.00
ATOM	2518	HB2	ARG	160	32.655	37.163	8.464	0.00	0.00
ATOM	2519	HB3	ARG	160	31.482	36.460	8.052	0.00	0.00
ATOM	2520	CG	ARG	160	32.090	37.581	6.841	0.00	0.00
ATOM	2521	HG2	ARG	160	32.455	37.186	6.466	0.00	0.00
ATOM	2522	HG3	ARG	160	31.517	37.563	6.617	0.00	0.00
ATOM	2523	CD	ARG	160	32.632	38.379	6.351	0.00	0.00
ATOM	2524	HD2	ARG	160	32.701	38.409	5.699	0.00	0.00
ATOM	2525	HD3	ARG	160	32.335	38.761	6.481	0.00	0.00
ATOM	2526	NE	ARG	160	33.439	38.605	6.535	0.00	0.00
ATOM	2527	HE	ARG	160	33.690	38.247	6.723	0.00	0.00
ATOM	2528	CZ	ARG	160	33.876	39.237	6.492	0.00	0.00
ATOM	2529	NH1	ARG	160	34.541	39.355	6.736	0.00	0.00
ATOM	2530	1HH1	ARG	160	34.717	38.971	6.953	0.00	0.00
ATOM	2531	2HH1	ARG	160	34.872	39.832	6.707	0.00	0.00
ATOM	2532	NH2	ARG	160	33.672	39.764	6.217	0.00	0.00
ATOM	2533	1HH2	ARG	160	33.201	39.710	5.965	0.00	0.00
ATOM	2534	2HH2	ARG	160	34.042	40.229	6.186	0.00	0.00
ATOM	2535	C	ARG	160	29.517	38.210	8.477	0.00	0.00
ATOM	2536	O	ARG	160	29.111	39.062	7.730	0.00	0.00
ATOM	2537	N	PHE	161	28.718	37.304	8.990	0.00	0.00
ATOM	2538	H	PHE	161	29.123	36.627	9.580	0.00	0.00
ATOM	2539	CA	PHE	161	27.294	37.224	8.702	0.00	0.00
ATOM	2540	HA	PHE	161	27.167	37.202	7.636	0.00	0.00
ATOM	2541	CB	PHE	161	26.743	35.928	9.259	0.00	0.00
ATOM	2542	HB2	PHE	161	27.163	35.169	8.841	0.00	0.00
ATOM	2543	HB3	PHE	161	26.950	35.854	10.189	0.00	0.00
ATOM	2544	CG	PHE	161	25.388	35.697	9.145	0.00	0.00
ATOM	2545	CD1	PHE	161	24.637	35.893	10.016	0.00	0.00
ATOM	2546	HD1	PHE	161	25.021	36.192	10.773	0.00	0.00
ATOM	2547	CE1	PHE	161	23.383	35.701	9.898	0.00	0.00
ATOM	2548	HE1	PHE	161	22.814	35.850	10.562	0.00	0.00
ATOM	2549	CZ	PHE	161	22.873	35.309	8.912	0.00	0.00
ATOM	2550	HZ	PHE	161	21.915	35.158	8.821	0.00	0.00
ATOM	2551	CE2	PHE	161	23.618	35.105	8.045	0.00	0.00
ATOM	2552	HE2	PHE	161	23.229	34.798	7.294	0.00	0.00
ATOM	2553	CD2	PHE	161	24.872	35.298	8.161	0.00	0.00
ATOM	2554	HD2	PHE	161	25.437	35.140	7.494	0.00	0.00
ATOM	2555	C	PHE	161	26.511	38.434	9.204	0.00	0.00
ATOM	2556	O	PHE	161	25.675	38.947	8.484	0.00	0.00
ATOM	2557	N	VAL	162	26.796	38.932	10.399	0.00	0.00
ATOM	2558	H	VAL	162	27.476	38.464	10.952	0.00	0.00
ATOM	2559	CA	VAL	162	26.129	40.114	10.950	0.00	0.00
ATOM	2560	HA	VAL	162	25.073	39.998	10.800	0.00	0.00
ATOM	2561	CB	VAL	162	26.357	40.239	12.453	0.00	0.00
ATOM	2562	HB	VAL	162	27.010	40.364	12.632	0.00	0.00
ATOM	2563	CG1	VAL	162	25.878	40.958	13.061	0.00	0.00
ATOM	2564	1HG1	VAL	162	25.766	41.159	13.174	0.00	0.00

ATOM	2565	ZHG1	VAL	162	25.746	41.117	13.202	0.00	0.00
ATOM	2566	3HG1	VAL	162	25.786	41.131	13.266	0.00	0.00
ATOM	2567	CG2	VAL	162	26.152	39.467	13.188	0.00	0.00
ATOM	2568	1HG2	VAL	162	26.103	39.264	13.348	0.00	0.00
ATOM	2569	2HG2	VAL	162	26.122	39.285	13.374	0.00	0.00
ATOM	2570	3HG2	VAL	162	26.090	39.281	13.391	0.00	0.00
ATOM	2571	C	VAL	162	26.511	41.384	10.206	0.00	0.00
ATOM	2572	O	VAL	162	25.653	42.202	9.937	0.00	0.00
ATOM	2573	N	VAL	163	27.763	41.536	9.802	0.00	0.00
ATOM	2574	H	VAL	163	28.424	40.839	10.052	0.00	0.00
ATOM	2575	CA	VAL	163	28.216	42.677	9.006	0.00	0.00
ATOM	2576	HA	VAL	163	27.845	43.573	9.457	0.00	0.00
ATOM	2577	CB	VAL	163	29.727	42.762	9.006	0.00	0.00
ATOM	2578	HB	VAL	163	30.071	42.084	8.711	0.00	0.00
ATOM	2579	CG1	VAL	163	30.252	43.645	8.380	0.00	0.00
ATOM	2580	1HG1	VAL	163	30.353	43.862	8.229	0.00	0.00
ATOM	2581	2HG1	VAL	163	30.409	43.868	8.235	0.00	0.00
ATOM	2582	3HG1	VAL	163	30.395	43.845	8.211	0.00	0.00
ATOM	2583	CG2	VAL	163	30.320	42.916	10.064	0.00	0.00
ATOM	2584	1HG2	VAL	163	30.475	42.952	10.333	0.00	0.00
ATOM	2585	2HG2	VAL	163	30.440	42.937	10.308	0.00	0.00
ATOM	2586	3HG2	VAL	163	30.496	42.964	10.327	0.00	0.00
ATOM	2587	C	VAL	163	27.647	42.657	7.599	0.00	0.00
ATOM	2588	O	VAL	163	27.230	43.686	7.100	0.00	0.00
ATOM	2589	N	ASP	164	27.541	41.493	6.982	0.00	0.00
ATOM	2590	H	ASP	164	27.920	40.688	7.423	0.00	0.00
ATOM	2591	CA	ASP	164	26.908	41.324	5.682	0.00	0.00
ATOM	2592	HA	ASP	164	27.367	42.004	4.987	0.00	0.00
ATOM	2593	CB	ASP	164	27.162	39.908	5.194	0.00	0.00
ATOM	2594	HB2	ASP	164	28.208	39.706	5.224	0.00	0.00
ATOM	2595	HB3	ASP	164	26.681	39.211	5.835	0.00	0.00
ATOM	2596	CG	ASP	164	26.679	39.706	3.793	0.00	0.00
ATOM	2597	OD1	ASP	164	26.447	39.635	3.260	0.00	0.00
ATOM	2598	OD2	ASP	164	26.526	39.640	3.214	0.00	0.00
ATOM	2599	C	ASP	164	25.417	41.650	5.714	0.00	0.00
ATOM	2600	O	ASP	164	24.911	42.283	4.801	0.00	0.00
ATOM	2601	N	PHE	165	24.724	41.302	6.791	0.00	0.00
ATOM	2602	H	PHE	165	25.184	40.765	7.489	0.00	0.00
ATOM	2603	CA	PHE	165	23.337	41.684	7.011	0.00	0.00
ATOM	2604	HA	PHE	165	22.765	41.385	6.148	0.00	0.00
ATOM	2605	CB	PHE	165	22.778	40.947	8.224	0.00	0.00
ATOM	2606	HB2	PHE	165	22.945	39.906	8.102	0.00	0.00
ATOM	2607	HB3	PHE	165	23.301	41.243	9.099	0.00	0.00
ATOM	2608	CG	PHE	165	21.322	41.162	8.450	0.00	0.00
ATOM	2609	CD1	PHE	165	20.413	40.313	7.907	0.00	0.00
ATOM	2610	HD1	PHE	165	20.747	39.496	7.356	0.00	0.00
ATOM	2611	CE1	PHE	165	19.070	40.537	8.070	0.00	0.00
ATOM	2612	HE1	PHE	165	18.382	39.892	7.645	0.00	0.00
ATOM	2613	CZ	PHE	165	18.629	41.613	8.770	0.00	0.00
ATOM	2614	HZ	PHE	165	17.603	41.793	8.879	0.00	0.00
ATOM	2615	CE2	PHE	165	19.530	42.454	9.328	0.00	0.00
ATOM	2616	HE2	PHE	165	19.190	43.274	9.867	0.00	0.00
ATOM	2617	CD2	PHE	165	20.873	42.227	9.175	0.00	0.00
ATOM	2618	HD2	PHE	165	21.559	42.878	9.602	0.00	0.00
ATOM	2619	C	PHE	165	23.187	43.197	7.152	0.00	0.00
ATOM	2620	O	PHE	165	22.332	43.786	6.514	0.00	0.00
ATOM	2621	N	MET	166	24.044	43.846	7.932	0.00	0.00
ATOM	2622	H	MET	166	24.727	43.313	8.419	0.00	0.00
ATOM	2623	CA	MET	166	24.033	45.297	8.101	0.00	0.00
ATOM	2624	HA	MET	166	23.046	45.588	8.413	0.00	0.00
ATOM	2625	CB	MET	166	25.020	45.720	9.182	0.00	0.00
ATOM	2626	HB2	MET	166	25.942	45.297	9.023	0.00	0.00
ATOM	2627	HB3	MET	166	25.146	46.738	9.147	0.00	0.00
ATOM	2628	CG	MET	166	24.603	45.384	10.534	0.00	0.00
ATOM	2629	HG2	MET	166	23.895	45.330	10.608	0.00	0.00
ATOM	2630	HG3	MET	166	24.843	44.730	10.724	0.00	0.00
ATOM	2631	SD	MET	166	24.836	46.087	11.751	0.00	0.00
ATOM	2632	CE	MET	166	24.869	45.633	12.819	0.00	0.00
ATOM	2633	HE1	MET	166	24.868	45.544	13.040	0.00	0.00
ATOM	2634	HE2	MET	166	24.879	45.537	13.019	0.00	0.00
ATOM	2635	HE3	MET	166	24.885	45.550	13.049	0.00	0.00
ATOM	2636	C	MET	166	24.309	46.039	6.796	0.00	0.00
ATOM	2637	O	MET	166	23.693	47.054	6.544	0.00	0.00
ATOM	2638	N	LEU	167	25.168	45.514	5.939	0.00	0.00
ATOM	2639	H	LEU	167	25.670	44.710	6.229	0.00	0.00
ATOM	2640	CA	LEU	167	25.425	46.039	4.606	0.00	0.00
ATOM	2641	HA	LEU	167	25.592	47.101	4.692	0.00	0.00
ATOM	2642	CB	LEU	167	26.707	45.401	4.068	0.00	0.00
ATOM	2643	HB2	LEU	167	27.464	45.555	4.744	0.00	0.00
ATOM	2644	HB3	LEU	167	26.578	44.383	3.999	0.00	0.00
ATOM	2645	CG	LEU	167	27.189	45.862	2.756	0.00	0.00
ATOM	2646	HG	LEU	167	26.570	45.644	2.172	0.00	0.00
ATOM	2647	CD1	LEU	167	27.455	47.103	2.587	0.00	0.00
ATOM	2648	1HD1	LEU	167	27.461	47.411	2.551	0.00	0.00
ATOM	2649	2HD1	LEU	167	27.532	47.403	2.576	0.00	0.00
ATOM	2650	3HD1	LEU	167	27.562	47.408	2.488	0.00	0.00
ATOM	2651	CD2	LEU	167	28.302	45.340	2.352	0.00	0.00
ATOM	2652	1HD2	LEU	167	28.568	45.219	2.220	0.00	0.00
ATOM	2653	2HD2	LEU	167	28.568	45.226	2.273	0.00	0.00
ATOM	2654	3HD2	LEU	167	28.576	45.190	2.254	0.00	0.00
ATOM	2655	C	LEU	167	24.228	45.849	3.675	0.00	0.00
ATOM	2656	O	LEU	167	23.798	46.784	3.064	0.00	0.00
ATOM	2657	N	HIP	168	23.652	44.668	3.592	0.00	0.00
ATOM	2658	H	HIP	168	24.046	43.945	4.131	0.00	0.00
ATOM	2659	CA	HIP	168	22.588	44.331	2.643	0.00	0.00
ATOM	2660	HA	HIP	168	22.745	44.906	1.753	0.00	0.00
ATOM	2661	CB	HIP	168	22.707	42.877	2.245	0.00	0.00
ATOM	2662	HB2	HIP	168	22.700	42.255	3.089	0.00	0.00
ATOM	2663	HB3	HIP	168	21.884	42.623	1.663	0.00	0.00
ATOM	2664	CG	HIP	168	23.895	42.576	1.472	0.00	0.00
ATOM	2665	ND1	HIP	168	24.882	41.800	1.746	0.00	0.00
ATOM	2666	HD1	HIP	168	24.943	41.309	2.492	0.00	0.00
ATOM	2667	CE1	HIP	168	25.752	41.783	0.829	0.00	0.00
ATOM	2668	HE1	HIP	168	26.619	41.249	0.780	0.00	0.00
ATOM	2669	NE2	HIP	168	25.347	42.525	-0.017	0.00	0.00

ATOM	2670	HE2	HIP	168	25.808	42.680	-0.795	0.00	0.00
ATOM	2671	CD2	HIP	168	24.184	43.027	0.368	0.00	0.00
ATOM	2672	HD2	HIP	168	23.609	43.652	-0.109	0.00	0.00
ATOM	2673	C	HIP	168	21.181	44.714	3.074	0.00	0.00
ATOM	2674	O	HIP	168	20.310	44.621	2.308	0.00	0.00
ATOM	2675	N	HIP	169	20.953	45.181	4.267	0.00	0.00
ATOM	2676	H	HIP	169	21.705	45.154	4.861	0.00	0.00
ATOM	2677	CA	HIP	169	19.688	45.725	4.763	0.00	0.00
ATOM	2678	HA	HIP	169	18.979	45.723	3.957	0.00	0.00
ATOM	2679	CB	HIP	169	19.116	44.821	5.847	0.00	0.00
ATOM	2680	HB2	HIP	169	19.795	44.613	6.560	0.00	0.00
ATOM	2681	HB3	HIP	169	18.357	45.275	6.312	0.00	0.00
ATOM	2682	CG	HIP	169	18.611	43.600	5.381	0.00	0.00
ATOM	2683	ND1	HIP	169	17.515	43.356	4.862	0.00	0.00
ATOM	2684	HD1	HIP	169	16.912	43.958	4.738	0.00	0.00
ATOM	2685	CE1	HIP	169	17.410	42.184	4.523	0.00	0.00
ATOM	2686	HE1	HIP	169	16.663	41.735	4.076	0.00	0.00
ATOM	2687	NE2	HIP	169	18.404	41.676	4.816	0.00	0.00
ATOM	2688	HE2	HIP	169	18.572	40.819	4.648	0.00	0.00
ATOM	2689	CD2	HIP	169	19.167	42.551	5.354	0.00	0.00
ATOM	2690	HD2	HIP	169	20.039	42.436	5.682	0.00	0.00
ATOM	2691	C	HIP	169	19.785	47.184	5.161	0.00	0.00
ATOM	2692	O	HIP	169	19.312	47.566	6.019	0.00	0.00
ATOM	2693	N	CYS	170	20.408	48.002	4.546	0.00	0.00
ATOM	2694	H	CYS	170	20.743	47.614	3.839	0.00	0.00
ATOM	2695	CA	CYS	170	20.526	49.448	4.670	0.00	0.00
ATOM	2696	HA	CYS	170	21.268	49.743	3.994	0.00	0.00
ATOM	2697	CB	CYS	170	19.282	50.085	4.186	0.00	0.00
ATOM	2698	HB2	CYS	170	18.602	49.939	4.557	0.00	0.00
ATOM	2699	HB3	CYS	170	19.253	50.881	4.196	0.00	0.00
ATOM	2700	SG	CYS	170	18.971	49.812	2.978	0.00	0.00
ATOM	2701	HG	CYS	170	18.557	49.955	2.828	0.00	0.00
ATOM	2702	C	CYS	170	21.001	50.024	5.992	0.00	0.00
ATOM	2703	O	CYS	170	20.984	51.217	6.149	0.00	0.00
ATOM	2704	N	ILE	171	21.453	49.227	6.943	0.00	0.00
ATOM	2705	H	ILE	171	21.483	48.271	6.761	0.00	0.00
ATOM	2706	CA	ILE	171	21.872	49.688	8.263	0.00	0.00
ATOM	2707	HA	ILE	171	21.161	50.421	8.602	0.00	0.00
ATOM	2708	CB	ILE	171	21.874	48.538	9.280	0.00	0.00
ATOM	2709	HB	ILE	171	22.609	47.869	9.018	0.00	0.00
ATOM	2710	CG2	ILE	171	22.198	49.023	10.622	0.00	0.00
ATOM	2711	1HG2	ILE	171	22.301	49.135	10.952	0.00	0.00
ATOM	2712	2HG2	ILE	171	22.279	49.151	10.951	0.00	0.00
ATOM	2713	3HG2	ILE	171	22.267	49.132	10.959	0.00	0.00
ATOM	2714	CG1	ILE	171	20.612	47.780	9.333	0.00	0.00
ATOM	2715	2HG1	ILE	171	20.199	47.985	9.419	0.00	0.00
ATOM	2716	3HG1	ILE	171	20.405	47.542	8.949	0.00	0.00
ATOM	2717	CD1	ILE	171	20.148	47.012	9.761	0.00	0.00
ATOM	2718	1HD1	ILE	171	20.037	46.829	9.857	0.00	0.00
ATOM	2719	2HD1	ILE	171	20.040	46.827	9.856	0.00	0.00
ATOM	2720	3HD1	ILE	171	20.005	46.810	9.873	0.00	0.00
ATOM	2721	C	ILE	171	23.217	50.397	8.196	0.00	0.00
ATOM	2722	O	ILE	171	23.375	51.454	8.777	0.00	0.00
ATOM	2723	N	ALA	172	24.169	49.883	7.429	0.00	0.00
ATOM	2724	H	ALA	172	23.987	49.033	6.951	0.00	0.00
ATOM	2725	CA	ALA	172	25.447	50.542	7.213	0.00	0.00
ATOM	2726	HA	ALA	172	25.874	50.771	8.173	0.00	0.00
ATOM	2727	CB	ALA	172	26.389	49.580	6.510	0.00	0.00
ATOM	2728	HB1	ALA	172	26.673	49.372	6.379	0.00	0.00
ATOM	2729	HB2	ALA	172	26.586	49.300	6.364	0.00	0.00
ATOM	2730	HB3	ALA	172	26.610	49.377	6.283	0.00	0.00
ATOM	2731	C	ALA	172	25.291	51.875	6.467	0.00	0.00
ATOM	2732	O	ALA	172	25.975	52.828	6.784	0.00	0.00
ATOM	2733	N	ARG	173	24.333	51.984	5.552	0.00	0.00
ATOM	2734	H	ARG	173	23.866	51.149	5.295	0.00	0.00
ATOM	2735	CA	ARG	173	23.942	53.233	4.888	0.00	0.00
ATOM	2736	HA	ARG	173	24.828	53.698	4.486	0.00	0.00
ATOM	2737	CB	ARG	173	23.003	52.910	3.730	0.00	0.00
ATOM	2738	HB2	ARG	173	23.401	52.139	3.184	0.00	0.00
ATOM	2739	HB3	ARG	173	22.098	52.593	4.085	0.00	0.00
ATOM	2740	CG	ARG	173	22.756	54.014	2.803	0.00	0.00
ATOM	2741	HG2	ARG	173	22.337	54.761	3.295	0.00	0.00
ATOM	2742	HG3	ARG	173	23.619	54.334	2.463	0.00	0.00
ATOM	2743	CD	ARG	173	21.887	53.682	1.663	0.00	0.00
ATOM	2744	HD2	ARG	173	21.047	53.365	2.027	0.00	0.00
ATOM	2745	HD3	ARG	173	21.701	54.473	1.121	0.00	0.00
ATOM	2746	NE	ARG	173	22.393	52.770	0.816	0.00	0.00
ATOM	2747	HE	ARG	173	23.222	52.519	0.935	0.00	0.00
ATOM	2748	CZ	ARG	173	21.893	52.220	-0.088	0.00	0.00
ATOM	2749	NH1	ARG	173	20.827	52.436	-0.418	0.00	0.00
ATOM	2750	1HH1	ARG	173	20.343	53.047	0.006	0.00	0.00
ATOM	2751	2HH1	ARG	173	20.500	51.990	-1.109	0.00	0.00
ATOM	2752	NH2	ARG	173	22.486	51.419	-0.684	0.00	0.00
ATOM	2753	1HH2	ARG	173	23.313	51.238	-0.415	0.00	0.00
ATOM	2754	2HH2	ARG	173	22.126	50.994	-1.366	0.00	0.00
ATOM	2755	C	ARG	173	23.334	54.245	5.850	0.00	0.00
ATOM	2756	O	ARG	173	23.684	55.406	5.792	0.00	0.00
ATOM	2757	N	TRP	174	22.495	53.813	6.777	0.00	0.00
ATOM	2758	H	TRP	174	22.231	52.858	6.754	0.00	0.00
ATOM	2759	CA	TRP	174	21.924	54.671	7.813	0.00	0.00
ATOM	2760	HA	TRP	174	21.456	55.519	7.336	0.00	0.00
ATOM	2761	CB	TRP	174	20.843	53.905	8.562	0.00	0.00
ATOM	2762	HB2	TRP	174	20.164	53.493	7.849	0.00	0.00
ATOM	2763	HB3	TRP	174	21.286	53.083	9.086	0.00	0.00
ATOM	2764	CG	TRP	174	20.053	54.696	9.533	0.00	0.00
ATOM	2765	CD1	TRP	174	19.005	55.438	9.244	0.00	0.00
ATOM	2766	HD1	TRP	174	18.610	55.544	8.278	0.00	0.00
ATOM	2767	NE1	TRP	174	18.521	56.032	10.369	0.00	0.00
ATOM	2768	HE1	TRP	174	17.741	56.623	10.382	0.00	0.00
ATOM	2769	CE2	TRP	174	19.241	55.707	11.448	0.00	0.00
ATOM	2770	CZ2	TRP	174	19.155	56.067	12.771	0.00	0.00
ATOM	2771	HZ2	TRP	174	18.404	56.728	13.104	0.00	0.00
ATOM	2772	CH2	TRP	174	20.072	55.568	13.645	0.00	0.00
ATOM	2773	HH2	TRP	174	20.035	55.856	14.658	0.00	0.00
ATOM	2774	CZ3	TRP	174	21.043	54.701	13.192	0.00	0.00

ATOM	2775	HZ3	TRP	174	21.738	54.317	13.866	0.00	0.00
ATOM	2776	CE3	TRP	174	21.115	54.340	11.861	0.00	0.00
ATOM	2777	HE3	TRP	174	21.858	53.674	11.523	0.00	0.00
ATOM	2778	CD2	TRP	174	20.225	54.843	10.949	0.00	0.00
ATOM	2779	C	TRP	174	22.990	55.227	8.757	0.00	0.00
ATOM	2780	O	TRP	174	22.967	56.399	9.076	0.00	0.00
ATOM	2781	N	ILE	175	23.978	54.424	9.134	0.00	0.00
ATOM	2782	H	ILE	175	23.922	53.470	8.864	0.00	0.00
ATOM	2783	CA	ILE	175	25.127	54.855	9.936	0.00	0.00
ATOM	2784	HA	ILE	175	24.756	55.444	10.760	0.00	0.00
ATOM	2785	CB	ILE	175	25.852	53.635	10.532	0.00	0.00
ATOM	2786	HB	ILE	175	26.088	52.970	9.728	0.00	0.00
ATOM	2787	CG2	ILE	175	27.157	54.022	11.210	0.00	0.00
ATOM	2788	1HG2	ILE	175	27.452	54.138	11.431	0.00	0.00
ATOM	2789	2HG2	ILE	175	27.500	54.044	11.368	0.00	0.00
ATOM	2790	3HG2	ILE	175	27.496	54.154	11.319	0.00	0.00
ATOM	2791	CG1	ILE	175	24.969	52.868	11.514	0.00	0.00
ATOM	2792	2HG1	ILE	175	24.455	53.096	11.789	0.00	0.00
ATOM	2793	3HG1	ILE	175	24.671	52.364	11.333	0.00	0.00
ATOM	2794	CD1	ILE	175	25.118	52.404	12.374	0.00	0.00
ATOM	2795	1HD1	ILE	175	25.188	52.295	12.590	0.00	0.00
ATOM	2796	2HD1	ILE	175	25.123	52.307	12.582	0.00	0.00
ATOM	2797	3HD1	ILE	175	25.133	52.260	12.587	0.00	0.00
ATOM	2798	C	ILE	175	26.052	55.783	9.140	0.00	0.00
ATOM	2799	O	ILE	175	26.515	56.774	9.679	0.00	0.00
ATOM	2800	N	ALA	176	26.271	55.543	7.851	0.00	0.00
ATOM	2801	H	ALA	176	25.910	54.705	7.457	0.00	0.00
ATOM	2802	CA	ALA	176	27.030	56.436	6.983	0.00	0.00
ATOM	2803	HA	ALA	176	28.001	56.592	7.421	0.00	0.00
ATOM	2804	CB	ALA	176	27.229	55.773	5.628	0.00	0.00
ATOM	2805	HB1	ALA	176	27.281	55.609	5.300	0.00	0.00
ATOM	2806	HB2	ALA	176	27.276	55.621	5.295	0.00	0.00
ATOM	2807	HB3	ALA	176	27.291	55.620	5.297	0.00	0.00
ATOM	2808	C	ALA	176	26.374	57.812	6.841	0.00	0.00
ATOM	2809	O	ALA	176	27.045	58.815	6.910	0.00	0.00
ATOM	2810	N	GLN	177	25.058	57.875	6.741	0.00	0.00
ATOM	2811	H	GLN	177	24.568	57.021	6.648	0.00	0.00
ATOM	2812	CA	GLN	177	24.283	59.111	6.731	0.00	0.00
ATOM	2813	HA	GLN	177	24.733	59.789	6.035	0.00	0.00
ATOM	2814	CB	GLN	177	22.876	58.817	6.247	0.00	0.00
ATOM	2815	HB2	GLN	177	22.534	58.069	6.564	0.00	0.00
ATOM	2816	HB3	GLN	177	22.302	59.428	6.485	0.00	0.00
ATOM	2817	CG	GLN	177	22.687	58.719	5.001	0.00	0.00
ATOM	2818	HG2	GLN	177	22.917	59.439	4.638	0.00	0.00
ATOM	2819	HG3	GLN	177	23.239	58.165	4.760	0.00	0.00
ATOM	2820	CD	GLN	177	21.451	58.404	4.530	0.00	0.00
ATOM	2821	OE1	GLN	177	20.727	58.143	4.954	0.00	0.00
ATOM	2822	NE2	GLN	177	21.157	58.413	3.630	0.00	0.00
ATOM	2823	1HE2	GLN	177	20.351	58.217	3.321	0.00	0.00
ATOM	2824	2HE2	GLN	177	21.733	58.629	3.264	0.00	0.00
ATOM	2825	C	GLN	177	24.275	59.830	8.078	0.00	0.00
ATOM	2826	O	GLN	177	24.047	60.995	8.129	0.00	0.00
ATOM	2827	N	ARG	178	24.582	59.163	9.163	0.00	0.00
ATOM	2828	H	ARG	178	24.699	58.205	9.047	0.00	0.00
ATOM	2829	CA	ARG	178	24.789	59.720	10.500	0.00	0.00
ATOM	2830	HA	ARG	178	24.269	60.647	10.565	0.00	0.00
ATOM	2831	CB	ARG	178	24.203	58.785	11.527	0.00	0.00
ATOM	2832	HB2	ARG	178	24.097	58.008	11.311	0.00	0.00
ATOM	2833	HB3	ARG	178	24.650	58.724	12.153	0.00	0.00
ATOM	2834	CG	ARG	178	23.149	58.954	12.021	0.00	0.00
ATOM	2835	HG2	ARG	178	23.120	59.103	12.176	0.00	0.00
ATOM	2836	HG3	ARG	178	23.046	59.038	11.863	0.00	0.00
ATOM	2837	CD	ARG	178	22.256	58.775	12.531	0.00	0.00
ATOM	2838	HD2	ARG	178	22.020	58.564	12.318	0.00	0.00
ATOM	2839	HD3	ARG	178	22.361	58.582	12.751	0.00	0.00
ATOM	2840	NE	ARG	178	21.564	59.121	13.010	0.00	0.00
ATOM	2841	HE	ARG	178	21.672	59.076	13.298	0.00	0.00
ATOM	2842	CZ	ARG	178	20.793	59.491	13.107	0.00	0.00
ATOM	2843	NH1	ARG	178	20.255	59.763	13.544	0.00	0.00
ATOM	2844	1HH1	ARG	178	20.430	59.694	13.803	0.00	0.00
ATOM	2845	2HH1	ARG	178	19.675	60.047	13.616	0.00	0.00
ATOM	2846	NH2	ARG	178	20.531	59.604	12.785	0.00	0.00
ATOM	2847	1HH2	ARG	178	20.910	59.406	12.449	0.00	0.00
ATOM	2848	2HH2	ARG	178	19.940	59.889	12.882	0.00	0.00
ATOM	2849	C	ARG	178	26.229	60.075	10.801	0.00	0.00
ATOM	2850	O	ARG	178	26.501	60.549	11.837	0.00	0.00
ATOM	2851	N	GLY	179	27.142	59.883	9.900	0.00	0.00
ATOM	2852	H	GLY	179	26.836	59.497	9.078	0.00	0.00
ATOM	2853	CA	GLY	179	28.540	60.259	9.991	0.00	0.00
ATOM	2854	HA2	GLY	179	28.848	60.591	9.038	0.00	0.00
ATOM	2855	HA3	GLY	179	28.651	61.069	10.664	0.00	0.00
ATOM	2856	C	GLY	179	29.501	59.177	10.416	0.00	0.00
ATOM	2857	O	GLY	179	30.618	59.482	10.746	0.00	0.00
ATOM	2858	N	GLY	180	29.093	57.930	10.425	0.00	0.00
ATOM	2859	H	GLY	180	28.160	57.754	10.169	0.00	0.00
ATOM	2860	CA	GLY	180	29.876	56.801	10.898	0.00	0.00
ATOM	2861	HA2	GLY	180	29.617	55.936	10.332	0.00	0.00
ATOM	2862	HA3	GLY	180	30.911	56.987	10.737	0.00	0.00
ATOM	2863	C	GLY	180	29.679	56.483	12.364	0.00	0.00
ATOM	2864	O	GLY	180	29.006	57.192	13.067	0.00	0.00
ATOM	2865	N	TRP	181	30.262	55.399	12.838	0.00	0.00
ATOM	2866	H	TRP	181	30.832	54.882	12.225	0.00	0.00
ATOM	2867	CA	TRP	181	30.046	54.863	14.173	0.00	0.00
ATOM	2868	HA	TRP	181	28.999	54.682	14.291	0.00	0.00
ATOM	2869	CB	TRP	181	30.758	53.527	14.317	0.00	0.00
ATOM	2870	HB2	TRP	181	31.709	53.576	13.857	0.00	0.00
ATOM	2871	HB3	TRP	181	30.926	53.342	15.346	0.00	0.00
ATOM	2872	CG	TRP	181	30.028	52.357	13.800	0.00	0.00
ATOM	2873	CD1	TRP	181	30.269	51.725	12.661	0.00	0.00
ATOM	2874	HD1	TRP	181	31.025	51.991	11.979	0.00	0.00
ATOM	2875	NE1	TRP	181	29.402	50.692	12.517	0.00	0.00
ATOM	2876	HE1	TRP	181	29.412	50.070	11.752	0.00	0.00
ATOM	2877	CE2	TRP	181	28.559	50.600	13.565	0.00	0.00
ATOM	2878	CZ2	TRP	181	27.532	49.740	13.869	0.00	0.00
ATOM	2879	HZ2	TRP	181	27.269	48.969	13.200	0.00	0.00

ATOM	2880	CH2	TRP	181	26.852	49.905	15.051	0.00	0.00
ATOM	2881	HH2	TRP	181	26.064	49.255	15.302	0.00	0.00
ATOM	2882	CZ3	TRP	181	27.204	50.924	15.908	0.00	0.00
ATOM	2883	HZ3	TRP	181	26.682	51.045	16.813	0.00	0.00
ATOM	2884	CE3	TRP	181	28.232	51.789	15.589	0.00	0.00
ATOM	2885	HE3	TRP	181	28.494	52.565	16.253	0.00	0.00
ATOM	2886	CD2	TRP	181	28.938	51.650	14.409	0.00	0.00
ATOM	2887	C	TRP	181	30.434	55.802	15.299	0.00	0.00
ATOM	2888	O	TRP	181	29.770	55.828	16.291	0.00	0.00
ATOM	2889	N	VAL	182	31.457	56.605	15.151	0.00	0.00
ATOM	2890	H	VAL	182	31.941	56.561	14.307	0.00	0.00
ATOM	2891	CA	VAL	182	31.886	57.568	16.157	0.00	0.00
ATOM	2892	HA	VAL	182	31.901	57.071	17.093	0.00	0.00
ATOM	2893	CB	VAL	182	33.279	58.066	15.895	0.00	0.00
ATOM	2894	HB	VAL	182	33.429	58.555	15.459	0.00	0.00
ATOM	2895	CG1	VAL	182	33.861	58.453	16.547	0.00	0.00
ATOM	2896	1HG1	VAL	182	33.977	58.586	16.686	0.00	0.00
ATOM	2897	2HG1	VAL	182	34.047	58.552	16.695	0.00	0.00
ATOM	2898	3HG1	VAL	182	33.999	58.517	16.730	0.00	0.00
ATOM	2899	CG2	VAL	182	33.972	57.533	15.584	0.00	0.00
ATOM	2900	1HG2	VAL	182	34.162	57.412	15.511	0.00	0.00
ATOM	2901	2HG2	VAL	182	34.130	57.417	15.499	0.00	0.00
ATOM	2902	3HG2	VAL	182	34.148	57.395	15.506	0.00	0.00
ATOM	2903	C	VAL	182	30.924	58.723	16.297	0.00	0.00
ATOM	2904	O	VAL	182	30.705	59.205	17.329	0.00	0.00
ATOM	2905	N	ALA	183	30.301	59.131	15.279	0.00	0.00
ATOM	2906	H	ALA	183	30.520	58.695	14.463	0.00	0.00
ATOM	2907	CA	ALA	183	29.298	60.158	15.285	0.00	0.00
ATOM	2908	HA	ALA	183	29.562	60.905	15.996	0.00	0.00
ATOM	2909	CB	ALA	183	29.285	60.798	13.945	0.00	0.00
ATOM	2910	HB1	ALA	183	29.310	61.007	13.645	0.00	0.00
ATOM	2911	HB2	ALA	183	29.312	60.906	13.598	0.00	0.00
ATOM	2912	HB3	ALA	183	29.216	60.953	13.625	0.00	0.00
ATOM	2913	C	ALA	183	27.937	59.644	15.672	0.00	0.00
ATOM	2914	O	ALA	183	27.192	60.336	16.302	0.00	0.00
ATOM	2915	N	ALA	184	27.619	58.423	15.353	0.00	0.00
ATOM	2916	H	ALA	184	28.246	57.922	14.795	0.00	0.00
ATOM	2917	CA	ALA	184	26.376	57.808	15.692	0.00	0.00
ATOM	2918	HA	ALA	184	25.599	58.473	15.425	0.00	0.00
ATOM	2919	CB	ALA	184	26.228	56.559	14.873	0.00	0.00
ATOM	2920	HB1	ALA	184	26.177	56.239	14.719	0.00	0.00
ATOM	2921	HB2	ALA	184	26.153	56.275	14.646	0.00	0.00
ATOM	2922	HB3	ALA	184	26.235	56.259	14.662	0.00	0.00
ATOM	2923	C	ALA	184	26.215	57.539	17.162	0.00	0.00
ATOM	2924	O	ALA	184	25.148	57.614	17.661	0.00	0.00
ATOM	2925	N	LEU	185	27.264	57.287	17.868	0.00	0.00
ATOM	2926	H	LEU	185	28.098	57.197	17.394	0.00	0.00
ATOM	2927	CA	LEU	185	27.271	57.115	19.287	0.00	0.00
ATOM	2928	HA	LEU	185	26.467	56.596	19.547	0.00	0.00
ATOM	2929	CB	LEU	185	28.404	56.349	19.661	0.00	0.00
ATOM	2930	HB2	LEU	185	28.500	55.677	19.163	0.00	0.00
ATOM	2931	HB3	LEU	185	29.093	56.771	19.540	0.00	0.00
ATOM	2932	CG	LEU	185	28.540	55.903	20.828	0.00	0.00
ATOM	2933	HG	LEU	185	28.507	56.506	21.216	0.00	0.00
ATOM	2934	CD1	LEU	185	27.888	55.142	21.285	0.00	0.00
ATOM	2935	1HD1	LEU	185	27.715	54.951	21.398	0.00	0.00
ATOM	2936	2HD1	LEU	185	27.738	54.972	21.418	0.00	0.00
ATOM	2937	3HD1	LEU	185	27.736	54.955	21.388	0.00	0.00
ATOM	2938	CD2	LEU	185	29.435	55.363	21.059	0.00	0.00
ATOM	2939	1HD2	LEU	185	29.657	55.238	21.110	0.00	0.00
ATOM	2940	2HD2	LEU	185	29.640	55.227	21.117	0.00	0.00
ATOM	2941	3HD2	LEU	185	29.662	55.240	21.132	0.00	0.00
ATOM	2942	C	LEU	185	27.197	58.338	20.036	0.00	0.00
ATOM	2943	O	LEU	185	26.873	58.383	20.966	0.00	0.00
ATOM	2944	N	ASN	186	27.462	59.330	19.635	0.00	0.00
ATOM	2945	H	ASN	186	27.717	59.233	18.869	0.00	0.00
ATOM	2946	CA	ASN	186	27.413	60.536	20.250	0.00	0.00
ATOM	2947	HA	ASN	186	27.523	60.487	21.121	0.00	0.00
ATOM	2948	CB	ASN	186	28.301	61.304	19.902	0.00	0.00
ATOM	2949	HB2	ASN	186	28.965	60.949	19.900	0.00	0.00
ATOM	2950	HB3	ASN	186	28.193	61.463	19.171	0.00	0.00
ATOM	2951	CG	ASN	186	28.470	62.341	20.534	0.00	0.00
ATOM	2952	OD1	ASN	186	28.300	62.721	20.993	0.00	0.00
ATOM	2953	ND2	ASN	186	28.807	62.830	20.583	0.00	0.00
ATOM	2954	1HD2	ASN	186	28.919	63.509	20.998	0.00	0.00
ATOM	2955	2HD2	ASN	186	28.957	62.530	20.210	0.00	0.00
ATOM	2956	C	ASN	186	26.368	61.085	20.114	0.00	0.00
ATOM	2957	O	ASN	186	25.978	61.504	20.303	0.00	0.00
ATOM	2958	N	LEU	187	25.914	61.088	19.796	0.00	0.00
ATOM	2959	H	LEU	187	26.282	60.739	19.650	0.00	0.00
ATOM	2960	CA	LEU	187	24.939	61.579	19.631	0.00	0.00
ATOM	2961	HA	LEU	187	24.717	61.877	19.708	0.00	0.00
ATOM	2962	CB	LEU	187	24.782	61.673	19.196	0.00	0.00
ATOM	2963	HB2	LEU	187	25.150	61.471	19.080	0.00	0.00
ATOM	2964	HB3	LEU	187	24.704	61.571	19.150	0.00	0.00
ATOM	2965	CG	LEU	187	24.253	62.155	18.964	0.00	0.00
ATOM	2966	HG	LEU	187	24.190	62.166	19.022	0.00	0.00
ATOM	2967	CD1	LEU	187	24.032	62.421	18.752	0.00	0.00
ATOM	2968	1HD1	LEU	187	23.976	62.473	18.693	0.00	0.00
ATOM	2969	2HD1	LEU	187	23.962	62.487	18.712	0.00	0.00
ATOM	2970	3HD1	LEU	187	23.990	62.501	18.694	0.00	0.00
ATOM	2971	CD2	LEU	187	24.016	62.369	18.843	0.00	0.00
ATOM	2972	1HD2	LEU	187	23.953	62.408	18.800	0.00	0.00
ATOM	2973	2HD2	LEU	187	23.973	62.384	18.844	0.00	0.00
ATOM	2974	3HD2	LEU	187	23.947	62.475	18.797	0.00	0.00
ATOM	2975	C	LEU	187	24.386	61.599	19.794	0.00	0.00
ATOM	2976	O	LEU	187	24.275	61.579	19.745	0.00	0.00
END									

DATASET S5
 HEADER APOPTOSIS 29-OCT-11 XXXX
 TITLE 3D MODEL OF BAK IN COMPLEX WITH THE BH3 DOMAIN OF BIM
 COMPND MOLECULE: APOPTOSIS REGULATOR BAK;
 COMPND 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
 COMPND 3 PROTEIN;

SOURCE MOLECULE 1 (RESIDUES 1-24): BIM;
SOURCE 2 NCBI ACCESSION: 043521;
SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE 4 ORGANISM_COMMON: HUMAN;
SOURCE 5 MOLECULE 2 (RESIDUES 25-187): BAK;
SOURCE 6 NCBI ACCESSION: Q16611;
SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
SOURCE 8 ORGANISM_COMMON: HUMAN;
KEYWDS HETERODIMER, APOPTOSIS
EXPDTA THEORETICAL MODEL
JRNL AUTH Y-P PANG, H DAI, A SMITH, XW MENG, PA SCHNEIDER, SH KAUFMANN
JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING;
JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
JRNL REF SCIENTIFIC REPORTS, SUBMITTED
REMARK 220 THIS IS AN ENERGY-MINIMIZED AVERAGE OF 19,500 SIMILAR
REMARK 220 CONFORMERS IDENTIFIED BY CLUSTER ANALYSIS OF 80
REMARK 220 10-NS MOLECULAR DYNAMICS SIMULATIONS OF
REMARK 220 BAK*BIM USING PMEMD WITH THE FF99SB FORCE FIELD.

MOL 1
ATOM 1 N ARG 1 5.821 30.687 14.155
ATOM 2 H ARG 1 5.923 29.714 13.881
ATOM 3 CA ARG 1 4.723 31.056 15.032
ATOM 4 HA ARG 1 4.268 30.120 15.337
ATOM 5 CB ARG 1 3.762 31.948 14.238
ATOM 6 2HB ARG 1 3.255 32.640 14.933
ATOM 7 3HB ARG 1 4.364 32.571 13.556
ATOM 8 CG ARG 1 2.724 31.140 13.448
ATOM 9 2HG ARG 1 3.259 30.636 12.644
ATOM 10 3HG ARG 1 2.273 30.415 14.114
ATOM 11 CD ARG 1 1.683 32.158 12.930
ATOM 12 2HD ARG 1 1.276 32.685 13.791
ATOM 13 3HD ARG 1 2.200 32.886 12.299
ATOM 14 NE ARG 1 0.535 31.635 12.174
ATOM 15 HE ARG 1 -0.365 31.993 12.446
ATOM 16 CZ ARG 1 0.625 31.392 10.878
ATOM 17 NH1 ARG 1 -0.070 32.118 10.042
ATOM 18 1HH1 ARG 1 -0.555 32.936 10.397
ATOM 19 2HH1 ARG 1 0.012 31.995 9.058
ATOM 20 NH2 ARG 1 1.410 30.463 10.462
ATOM 21 1HH2 ARG 1 1.833 29.886 11.167
ATOM 22 2HH2 ARG 1 1.443 30.182 9.489
ATOM 23 C ARG 1 5.116 31.846 16.297
ATOM 24 O ARG 1 5.672 32.923 16.162
ATOM 25 N PRO 2 4.822 31.350 17.516
ATOM 26 CD PRO 2 3.857 30.307 17.832
ATOM 27 2HD PRO 2 4.280 29.323 17.594
ATOM 28 3HD PRO 2 2.928 30.471 17.270
ATOM 29 CG PRO 2 3.601 30.412 19.336
ATOM 30 2HG PRO 2 3.367 29.439 19.753
ATOM 31 3HG PRO 2 2.800 31.122 19.530
ATOM 32 CB PRO 2 4.939 30.941 19.845
ATOM 33 2HB PRO 2 4.857 31.430 20.816
ATOM 34 3HB PRO 2 5.648 30.114 19.892
ATOM 35 CA PRO 2 5.385 31.918 18.748
ATOM 36 HA PRO 2 4.932 32.897 18.912
ATOM 37 C PRO 2 6.910 32.102 18.697
ATOM 38 O PRO 2 7.473 32.969 19.360
ATOM 39 N GLU 3 7.606 31.315 17.864
ATOM 40 H GLU 3 7.112 30.565 17.398
ATOM 41 CA GLU 3 9.015 31.452 17.556
ATOM 42 HA GLU 3 9.541 31.729 18.471
ATOM 43 CB GLU 3 9.533 30.080 17.106
ATOM 44 2HB GLU 3 10.621 30.092 17.062
ATOM 45 3HB GLU 3 9.225 29.358 17.862
ATOM 46 CG GLU 3 8.956 29.703 15.729
ATOM 47 2HG GLU 3 7.960 30.130 15.627
ATOM 48 3HG GLU 3 9.582 30.145 14.954
ATOM 49 CD GLU 3 8.823 28.201 15.494
ATOM 50 OE1 GLU 3 9.646 27.441 16.044
ATOM 51 OE2 GLU 3 7.867 27.848 14.767
ATOM 52 C GLU 3 9.374 32.576 16.540
ATOM 53 O GLU 3 10.538 32.964 16.501
ATOM 54 N ILE 4 8.431 33.122 15.768
ATOM 55 H ILE 4 7.489 32.737 15.788
ATOM 56 CA ILE 4 8.626 34.337 14.953
ATOM 57 HA ILE 4 9.697 34.474 14.776
ATOM 58 CB ILE 4 7.869 34.269 13.600
ATOM 59 HB ILE 4 6.823 34.453 13.847
ATOM 60 CG2 ILE 4 8.350 35.447 12.754
ATOM 61 1HG2 ILE 4 7.861 36.351 13.107
ATOM 62 2HG2 ILE 4 9.438 35.560 12.853
ATOM 63 3HG2 ILE 4 8.106 35.313 11.702
ATOM 64 CG1 ILE 4 7.847 32.935 12.829
ATOM 65 2HG1 ILE 4 8.036 32.097 13.501
ATOM 66 3HG1 ILE 4 6.828 32.815 12.454
ATOM 67 CD1 ILE 4 8.774 32.770 11.630
ATOM 68 1HD1 ILE 4 8.870 31.715 11.414
ATOM 69 2HD1 ILE 4 9.755 33.195 11.851
ATOM 70 3HD1 ILE 4 8.334 33.273 10.761
ATOM 71 C ILE 4 8.138 35.574 15.709
ATOM 72 O ILE 4 8.744 36.632 15.612
ATOM 73 N TRP 5 7.014 35.477 16.425
ATOM 74 H TRP 5 6.526 34.583 16.419
ATOM 75 CA TRP 5 6.351 36.630 17.049
ATOM 76 HA TRP 5 6.138 37.359 16.270
ATOM 77 CB TRP 5 5.031 36.192 17.679
ATOM 78 2HB TRP 5 5.227 35.393 18.396
ATOM 79 3HB TRP 5 4.633 37.040 18.232
ATOM 80 CG TRP 5 3.953 35.745 16.743
ATOM 81 CD1 TRP 5 3.804 36.106 15.451
ATOM 82 HD1 TRP 5 4.475 36.751 14.898
ATOM 83 NE1 TRP 5 2.627 35.579 14.953
ATOM 84 HE1 TRP 5 2.274 35.787 14.032
ATOM 85 CE2 TRP 5 1.961 34.863 15.912
ATOM 86 CZ2 TRP 5 0.723 34.195 15.907

ATOM	87	HZ2	TRP	5	0.097	34.232	15.031
ATOM	88	CH2	TRP	5	0.312	33.521	17.062
ATOM	89	HH2	TRP	5	-0.645	33.011	17.081
ATOM	90	CZ3	TRP	5	1.117	33.536	18.216
ATOM	91	HZ3	TRP	5	0.777	33.041	19.113
ATOM	92	CE3	TRP	5	2.345	34.238	18.218
ATOM	93	HE3	TRP	5	2.926	34.284	19.129
ATOM	94	CD2	TRP	5	2.792	34.911	17.068
ATOM	95	C	TRP	5	7.216	37.365	18.078
ATOM	96	O	TRP	5	7.053	38.567	18.269
ATOM	97	N	ILE	6	8.201	36.677	18.651
ATOM	98	H	ILE	6	8.223	35.681	18.472
ATOM	99	CA	ILE	6	9.309	37.217	19.446
ATOM	100	HA	ILE	6	8.891	37.684	20.340
ATOM	101	CB	ILE	6	10.120	35.974	19.881
ATOM	102	HB	ILE	6	9.386	35.227	20.200
ATOM	103	CG2	ILE	6	10.885	35.337	18.709
ATOM	104	1HG2	ILE	6	10.790	34.254	18.791
ATOM	105	2HG2	ILE	6	10.484	35.646	17.745
ATOM	106	3HG2	ILE	6	11.942	35.603	18.742
ATOM	107	CG1	ILE	6	11.053	36.194	21.081
ATOM	108	2HG1	ILE	6	11.913	35.533	20.989
ATOM	109	3HG1	ILE	6	11.392	37.229	21.105
ATOM	110	CD1	ILE	6	10.391	35.839	22.411
ATOM	111	1HD1	ILE	6	10.232	34.760	22.454
ATOM	112	2HD1	ILE	6	11.051	36.130	23.225
ATOM	113	3HD1	ILE	6	9.437	36.356	22.506
ATOM	114	C	ILE	6	10.134	38.312	18.707
ATOM	115	O	ILE	6	10.804	39.116	19.348
ATOM	116	N	ALA	7	10.012	38.444	17.377
ATOM	117	H	ALA	7	9.505	37.726	16.874
ATOM	118	CA	ALA	7	10.467	39.597	16.588
ATOM	119	HA	ALA	7	11.531	39.756	16.767
ATOM	120	CB	ALA	7	10.259	39.290	15.101
ATOM	121	1HB	ALA	7	10.589	40.140	14.504
ATOM	122	2HB	ALA	7	10.830	38.411	14.813
ATOM	123	3HB	ALA	7	9.202	39.111	14.898
ATOM	124	C	ALA	7	9.731	40.905	16.930
ATOM	125	O	ALA	7	10.342	41.973	16.935
ATOM	126	N	GLN	8	8.430	40.856	17.248
ATOM	127	H	GLN	8	7.979	39.952	17.339
ATOM	128	CA	GLN	8	7.718	42.040	17.745
ATOM	129	HA	GLN	8	7.907	42.875	17.071
ATOM	130	CB	GLN	8	6.202	41.807	17.810
ATOM	131	2HB	GLN	8	5.974	40.985	18.492
ATOM	132	3HB	GLN	8	5.745	42.714	18.209
ATOM	133	CG	GLN	8	5.603	41.503	16.431
ATOM	134	2HG	GLN	8	6.020	42.185	15.690
ATOM	135	3HG	GLN	8	5.870	40.485	16.145
ATOM	136	CD	GLN	8	4.089	41.653	16.389
ATOM	137	OE1	GLN	8	3.457	42.329	17.182
ATOM	138	NE2	GLN	8	3.448	41.095	15.389
ATOM	139	1HE2	GLN	8	2.456	41.236	15.373
ATOM	140	2HE2	GLN	8	3.954	40.599	14.681
ATOM	141	C	GLN	8	8.256	42.459	19.113
ATOM	142	O	GLN	8	8.344	43.656	19.375
ATOM	143	N	GLU	9	8.691	41.491	19.919
ATOM	144	H	GLU	9	8.546	40.534	19.640
ATOM	145	CA	GLU	9	9.321	41.719	21.215
ATOM	146	HA	GLU	9	8.728	42.459	21.742
ATOM	147	CB	GLU	9	9.319	40.384	21.987
ATOM	148	2HB	GLU	9	8.548	39.724	21.583
ATOM	149	3HB	GLU	9	10.278	39.893	21.833
ATOM	150	CG	GLU	9	9.086	40.501	23.494
ATOM	151	2HG	GLU	9	9.215	39.502	23.915
ATOM	152	3HG	GLU	9	9.854	41.152	23.914
ATOM	153	CD	GLU	9	7.691	41.014	23.884
ATOM	154	OE1	GLU	9	7.181	41.993	23.277
ATOM	155	OE2	GLU	9	7.128	40.580	24.896
ATOM	156	C	GLU	9	10.715	42.343	21.072
ATOM	157	O	GLU	9	10.976	43.389	21.659
ATOM	158	N	LEU	10	11.556	41.806	20.178
ATOM	159	H	LEU	10	11.299	40.907	19.780
ATOM	160	CA	LEU	10	12.836	42.402	19.769
ATOM	161	HA	LEU	10	13.500	42.417	20.631
ATOM	162	CB	LEU	10	13.434	41.483	18.686
ATOM	163	2HB	LEU	10	13.510	40.471	19.086
ATOM	164	3HB	LEU	10	12.747	41.454	17.840
ATOM	165	CG	LEU	10	14.812	41.917	18.162
ATOM	166	HG	LEU	10	14.724	42.896	17.695
ATOM	167	CD1	LEU	10	15.865	41.987	19.267
ATOM	168	1HD1	LEU	10	15.626	42.795	19.957
ATOM	169	2HD1	LEU	10	15.894	41.046	19.816
ATOM	170	3HD1	LEU	10	16.846	42.180	18.834
ATOM	171	CD2	LEU	10	15.293	40.922	17.107
ATOM	172	1HD2	LEU	10	14.498	40.723	16.388
ATOM	173	2HD2	LEU	10	16.152	41.337	16.584
ATOM	174	3HD2	LEU	10	15.588	39.993	17.594
ATOM	175	C	LEU	10	12.681	43.852	19.262
ATOM	176	O	LEU	10	13.500	44.723	19.558
ATOM	177	N	ARG	11	11.609	44.122	18.510
ATOM	178	H	ARG	11	11.017	43.335	18.263
ATOM	179	CA	ARG	11	11.280	45.443	17.955
ATOM	180	HA	ARG	11	12.199	45.910	17.606
ATOM	181	CB	ARG	11	10.358	45.201	16.748
ATOM	182	2HB	ARG	11	10.803	44.395	16.163
ATOM	183	3HB	ARG	11	9.393	44.833	17.103
ATOM	184	CG	ARG	11	10.188	46.375	15.766
ATOM	185	2HG	ARG	11	11.108	46.955	15.722
ATOM	186	3HG	ARG	11	10.011	45.955	14.775
ATOM	187	CD	ARG	11	9.029	47.323	16.066
ATOM	188	2HD	ARG	11	9.258	47.897	16.967
ATOM	189	3HD	ARG	11	8.926	48.009	15.227
ATOM	190	NE	ARG	11	7.757	46.601	16.210
ATOM	191	HE	ARG	11	7.697	45.700	15.765

ATOM	192	CZ	ARG	11	6.733	47.004	16.934
ATOM	193	NH1	ARG	11	6.706	48.173	17.512
ATOM	194	1HH1	ARG	11	7.542	48.753	17.503
ATOM	195	2HH1	ARG	11	5.916	48.463	18.052
ATOM	196	NH2	ARG	11	5.695	46.225	17.072
ATOM	197	1HH2	ARG	11	5.714	45.292	16.703
ATOM	198	2HH2	ARG	11	4.935	46.511	17.657
ATOM	199	C	ARG	11	10.727	46.401	19.014
ATOM	200	O	ARG	11	11.007	47.591	18.941
ATOM	201	N	ARG	12	10.007	45.890	20.019
ATOM	202	H	ARG	12	9.822	44.893	20.000
ATOM	203	CA	ARG	12	9.474	46.651	21.159
ATOM	204	HA	ARG	12	9.059	47.595	20.796
ATOM	205	CB	ARG	12	8.354	45.824	21.809
ATOM	206	2HB	ARG	12	7.666	45.507	21.026
ATOM	207	3HB	ARG	12	8.784	44.936	22.274
ATOM	208	CG	ARG	12	7.547	46.607	22.854
ATOM	209	2HG	ARG	12	8.172	46.845	23.716
ATOM	210	3HG	ARG	12	7.200	47.539	22.407
ATOM	211	CD	ARG	12	6.315	45.809	23.313
ATOM	212	2HD	ARG	12	5.715	46.437	23.971
ATOM	213	3HD	ARG	12	5.702	45.571	22.441
ATOM	214	NE	ARG	12	6.648	44.561	24.017
ATOM	215	HE	ARG	12	6.680	43.682	23.481
ATOM	216	CZ	ARG	12	6.808	44.380	25.311
ATOM	217	NH1	ARG	12	6.853	45.371	26.159
ATOM	218	1HH1	ARG	12	6.782	46.307	25.820
ATOM	219	2HH1	ARG	12	6.863	45.153	27.133
ATOM	220	NH2	ARG	12	6.887	43.185	25.795
ATOM	221	1HH2	ARG	12	6.842	42.386	25.140
ATOM	222	2HH2	ARG	12	7.104	42.959	26.740
ATOM	223	C	ARG	12	10.570	47.029	22.153
ATOM	224	O	ARG	12	10.622	48.189	22.547
ATOM	225	N	ILE	13	11.478	46.109	22.492
ATOM	226	H	ILE	13	11.363	45.153	22.164
ATOM	227	CA	ILE	13	12.630	46.446	23.339
ATOM	228	HA	ILE	13	12.247	47.011	24.187
ATOM	229	CB	ILE	13	13.349	45.218	23.931
ATOM	230	HB	ILE	13	14.125	45.614	24.575
ATOM	231	CG2	ILE	13	12.379	44.407	24.807
ATOM	232	1HG2	ILE	13	11.780	43.744	24.182
ATOM	233	2HG2	ILE	13	12.941	43.798	25.520
ATOM	234	3HG2	ILE	13	11.723	45.071	25.364
ATOM	235	CG1	ILE	13	14.078	44.337	22.895
ATOM	236	2HG1	ILE	13	13.358	43.989	22.162
ATOM	237	3HG1	ILE	13	14.835	44.933	22.376
ATOM	238	CD1	ILE	13	14.778	43.106	23.494
ATOM	239	1HD1	ILE	13	15.431	43.400	24.317
ATOM	240	2HD1	ILE	13	14.033	42.395	23.853
ATOM	241	3HD1	ILE	13	15.379	42.622	22.724
ATOM	242	C	ILE	13	13.603	47.393	22.638
ATOM	243	O	ILE	13	14.156	48.260	23.300
ATOM	244	N	GLY	14	13.743	47.305	21.308
ATOM	245	H	GLY	14	13.337	46.507	20.834
ATOM	246	CA	GLY	14	14.483	48.285	20.506
ATOM	247	2HA	GLY	14	15.508	48.350	20.874
ATOM	248	3HA	GLY	14	14.512	47.936	19.474
ATOM	249	C	GLY	14	13.873	49.697	20.513
ATOM	250	O	GLY	14	14.611	50.677	20.434
ATOM	251	N	ASP	15	12.550	49.826	20.645
ATOM	252	H	ASP	15	11.979	48.994	20.689
ATOM	253	CA	ASP	15	11.875	51.127	20.747
ATOM	254	HA	ASP	15	12.419	51.852	20.136
ATOM	255	CB	ASP	15	10.441	51.034	20.185
ATOM	256	2HB	ASP	15	9.919	50.214	20.681
ATOM	257	3HB	ASP	15	9.917	51.959	20.437
ATOM	258	CG	ASP	15	10.373	50.851	18.658
ATOM	259	OD1	ASP	15	11.271	51.343	17.932
ATOM	260	OD2	ASP	15	9.388	50.265	18.139
ATOM	261	C	ASP	15	11.914	51.692	22.187
ATOM	262	O	ASP	15	12.183	52.885	22.354
ATOM	263	N	GLU	16	11.767	50.849	23.225
ATOM	264	H	GLU	16	11.499	49.894	23.022
ATOM	265	CA	GLU	16	12.075	51.225	24.629
ATOM	266	HA	GLU	16	11.391	52.002	24.969
ATOM	267	CB	GLU	16	11.967	50.014	25.579
ATOM	268	2HB	GLU	16	12.473	49.157	25.105
ATOM	269	3HB	GLU	16	12.473	50.246	26.513
ATOM	270	CG	GLU	16	10.543	49.575	25.907
ATOM	271	2HG	GLU	16	9.846	49.886	25.128
ATOM	272	3HG	GLU	16	10.585	48.511	25.839
ATOM	273	CD	GLU	16	10.049	49.844	27.337
ATOM	274	OE1	GLU	16	10.169	51.007	27.779
ATOM	275	OE2	GLU	16	9.529	48.889	27.983
ATOM	276	C	GLU	16	13.509	51.774	24.744
ATOM	277	O	GLU	16	13.750	52.813	25.362
ATOM	278	N	PHE	17	14.468	51.094	24.103
ATOM	279	H	PHE	17	14.224	50.195	23.692
ATOM	280	CA	PHE	17	15.870	51.506	23.996
ATOM	281	HA	PHE	17	16.317	51.493	24.994
ATOM	282	CB	PHE	17	16.600	50.519	23.077
ATOM	283	2HB	PHE	17	15.936	49.733	22.746
ATOM	284	3HB	PHE	17	16.922	51.023	22.175
ATOM	285	CG	PHE	17	17.798	49.891	23.708
ATOM	286	CD1	PHE	17	17.618	48.792	24.560
ATOM	287	HD1	PHE	17	16.622	48.423	24.775
ATOM	288	CE1	PHE	17	18.740	48.174	25.127
ATOM	289	HE1	PHE	17	18.592	47.323	25.772
ATOM	290	CZ	PHE	17	20.029	48.665	24.849
ATOM	291	HZ	PHE	17	20.898	48.189	25.272
ATOM	292	CE2	PHE	17	20.196	49.785	24.020
ATOM	293	HE2	PHE	17	21.183	50.171	23.826
ATOM	294	CD2	PHE	17	19.079	50.398	23.437
ATOM	295	HD2	PHE	17	19.206	51.254	22.788
ATOM	296	C	PHE	17	16.057	52.897	23.392

ATOM	297	O	PHE	17	16.844	53.703	23.887
ATOM	298	N	ASN	18	15.343	53.179	22.302
ATOM	299	H	ASN	18	14.725	52.465	21.936
ATOM	300	CA	ASN	18	15.427	54.453	21.602
ATOM	301	HA	ASN	18	16.477	54.665	21.394
ATOM	302	CB	ASN	18	14.694	54.275	20.262
ATOM	303	2HB	ASN	18	14.976	53.324	19.811
ATOM	304	3HB	ASN	18	13.617	54.256	20.426
ATOM	305	CG	ASN	18	15.061	55.353	19.268
ATOM	306	OD1	ASN	18	16.163	55.388	18.739
ATOM	307	ND2	ASN	18	14.146	56.242	18.965
ATOM	308	1HD2	ASN	18	14.413	56.991	18.356
ATOM	309	2HD2	ASN	18	13.249	56.208	19.416
ATOM	310	C	ASN	18	14.894	55.600	22.493
ATOM	311	O	ASN	18	15.456	56.694	22.490
ATOM	312	N	ALA	19	13.883	55.317	23.327
ATOM	313	H	ALA	19	13.463	54.395	23.253
ATOM	314	CA	ALA	19	13.350	56.220	24.355
ATOM	315	HA	ALA	19	13.212	57.204	23.904
ATOM	316	CB	ALA	19	11.972	55.695	24.801
ATOM	317	1HB	ALA	19	12.003	55.373	25.843
ATOM	318	2HB	ALA	19	11.231	56.487	24.697
ATOM	319	3HB	ALA	19	11.657	54.842	24.197
ATOM	320	C	ALA	19	14.288	56.399	25.568
ATOM	321	O	ALA	19	14.392	57.497	26.117
ATOM	322	N	TYR	20	14.972	55.333	25.995
ATOM	323	H	TYR	20	14.760	54.434	25.566
ATOM	324	CA	TYR	20	16.006	55.364	27.036
ATOM	325	HA	TYR	20	15.604	55.813	27.942
ATOM	326	CB	TYR	20	16.413	53.913	27.358
ATOM	327	2HB	TYR	20	15.572	53.392	27.819
ATOM	328	3HB	TYR	20	16.634	53.391	26.428
ATOM	329	CG	TYR	20	17.633	53.788	28.246
ATOM	330	CD1	TYR	20	17.507	53.671	29.647
ATOM	331	HD1	TYR	20	16.532	53.609	30.106
ATOM	332	CE1	TYR	20	18.664	53.602	30.449
ATOM	333	HE1	TYR	20	18.600	53.493	31.523
ATOM	334	CZ	TYR	20	19.933	53.671	29.839
ATOM	335	OH	TYR	20	21.062	53.691	30.573
ATOM	336	HH	TYR	20	20.969	53.264	31.459
ATOM	337	CE2	TYR	20	20.057	53.763	28.442
ATOM	338	HE2	TYR	20	21.041	53.768	28.001
ATOM	339	CD2	TYR	20	18.906	53.793	27.643
ATOM	340	HD2	TYR	20	18.999	53.813	26.567
ATOM	341	C	TYR	20	17.206	56.220	26.597
ATOM	342	O	TYR	20	17.644	57.116	27.322
ATOM	343	N	TYR	21	17.693	55.992	25.375
ATOM	344	H	TYR	21	17.282	55.233	24.838
ATOM	345	CA	TYR	21	18.828	56.693	24.776
ATOM	346	HA	TYR	21	19.695	56.595	25.430
ATOM	347	CB	TYR	21	19.130	55.983	23.449
ATOM	348	2HB	TYR	21	19.264	54.918	23.643
ATOM	349	3HB	TYR	21	18.267	56.085	22.788
ATOM	350	CG	TYR	21	20.361	56.470	22.722
ATOM	351	CD1	TYR	21	21.643	56.045	23.129
ATOM	352	HD1	TYR	21	21.745	55.391	23.984
ATOM	353	CE1	TYR	21	22.786	56.475	22.423
ATOM	354	HE1	TYR	21	23.771	56.160	22.729
ATOM	355	CZ	TYR	21	22.637	57.321	21.299
ATOM	356	OH	TYR	21	23.713	57.751	20.593
ATOM	357	HH	TYR	21	24.573	57.504	20.955
ATOM	358	CE2	TYR	21	21.349	57.718	20.885
ATOM	359	HE2	TYR	21	21.252	58.358	20.022
ATOM	360	CD2	TYR	21	20.212	57.308	21.603
ATOM	361	HD2	TYR	21	19.230	57.635	21.291
ATOM	362	C	TYR	21	18.564	58.197	24.590
ATOM	363	O	TYR	21	19.423	59.016	24.903
ATOM	364	N	ALA	22	17.350	58.585	24.185
ATOM	365	H	ALA	22	16.685	57.876	23.896
ATOM	366	CA	ALA	22	16.989	59.988	23.964
ATOM	367	HA	ALA	22	17.697	60.409	23.246
ATOM	368	CB	ALA	22	15.586	60.030	23.343
ATOM	369	1HB	ALA	22	15.676	60.221	22.273
ATOM	370	2HB	ALA	22	15.059	59.088	23.496
ATOM	371	3HB	ALA	22	14.995	60.829	23.794
ATOM	372	C	ALA	22	17.066	60.884	25.220
ATOM	373	O	ALA	22	17.200	62.099	25.101
ATOM	374	N	ARG	23	17.006	60.315	26.433
ATOM	375	H	ARG	23	16.936	59.305	26.468
ATOM	376	CA	ARG	23	17.058	61.083	27.696
ATOM	377	HA	ARG	23	16.537	62.031	27.547
ATOM	378	CB	ARG	23	16.371	60.292	28.823
ATOM	379	2HB	ARG	23	16.814	59.298	28.900
ATOM	380	3HB	ARG	23	16.538	60.811	29.769
ATOM	381	CG	ARG	23	14.864	60.176	28.603
ATOM	382	ZHG	ARG	23	14.483	61.147	28.284
ATOM	383	ZHG	ARG	23	14.671	59.448	27.817
ATOM	384	CD	ARG	23	14.131	59.774	29.897
ATOM	385	ZHD	ARG	23	14.532	60.368	30.723
ATOM	386	ZHD	ARG	23	13.077	60.046	29.798
ATOM	387	NE	ARG	23	14.229	58.346	30.237
ATOM	388	HE	ARG	23	14.810	58.108	31.031
ATOM	389	CZ	ARG	23	13.413	57.399	29.787
ATOM	390	NH1	ARG	23	12.661	57.546	28.741
ATOM	391	1HH1	ARG	23	12.805	58.331	28.137
ATOM	392	ZHH1	ARG	23	12.026	56.822	28.465
ATOM	393	NH2	ARG	23	13.289	56.277	30.436
ATOM	394	1HH2	ARG	23	13.761	56.135	31.317
ATOM	395	ZHH2	ARG	23	12.623	55.599	30.113
ATOM	396	C	ARG	23	18.466	61.470	28.151
ATOM	397	O	ARG	23	18.628	62.013	29.243
ATOM	398	N	ARG	24	19.501	61.092	27.403
ATOM	399	H	ARG	24	19.314	60.751	26.468
ATOM	400	CA	ARG	24	20.825	60.803	27.963
ATOM	401	HA	ARG	24	20.880	61.155	28.997

ATOM	402	CB	ARG	24	21.015	59.266	27.939
ATOM	403	ZHB	ARG	24	22.020	59.006	27.614
ATOM	404	3HB	ARG	24	20.312	58.817	27.234
ATOM	405	CG	ARG	24	20.768	58.614	29.302
ATOM	406	ZHG	ARG	24	19.716	58.740	29.563
ATOM	407	3HG	ARG	24	21.372	59.101	30.069
ATOM	408	CD	ARG	24	21.095	57.112	29.251
ATOM	409	ZHD	ARG	24	20.838	56.724	28.259
ATOM	410	3HD	ARG	24	20.463	56.593	29.970
ATOM	411	NE	ARG	24	22.507	56.819	29.551
ATOM	412	HE	ARG	24	23.133	56.781	28.761
ATOM	413	CZ	ARG	24	22.942	56.267	30.678
ATOM	414	NH1	ARG	24	22.259	56.187	31.776
ATOM	415	1HH1	ARG	24	21.320	56.503	31.816
ATOM	416	2HH1	ARG	24	22.573	55.481	32.440
ATOM	417	NH2	ARG	24	24.084	55.673	30.739
ATOM	418	1HH2	ARG	24	24.667	55.590	29.937
ATOM	419	2HH2	ARG	24	24.190	55.015	31.507
ATOM	420	C	ARG	24	21.898	61.569	27.185
ATOM	421	O	ARG	24	22.530	61.014	26.294
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ATOM	422	N	SER	25	33.884	56.153	6.605
ATOM	423	H	SER	25	34.292	55.332	7.039
ATOM	424	CA	SER	25	32.579	56.604	7.092
ATOM	425	HA	SER	25	32.026	55.732	7.431
ATOM	426	CB	SER	25	32.796	57.548	8.277
ATOM	427	ZHB	SER	25	33.505	58.326	7.988
ATOM	428	3HB	SER	25	31.856	58.023	8.558
ATOM	429	OG	SER	25	33.295	56.828	9.391
ATOM	430	HG	SER	25	33.994	56.226	9.100
ATOM	431	C	SER	25	31.701	57.294	6.038
ATOM	432	O	SER	25	30.530	57.564	6.302
ATOM	433	N	ALA	26	32.236	57.578	4.847
ATOM	434	H	ALA	26	33.186	57.272	4.666
ATOM	435	CA	ALA	26	31.516	58.287	3.785
ATOM	436	HA	ALA	26	30.824	58.995	4.246
ATOM	437	CB	ALA	26	32.539	59.091	2.979
ATOM	438	1HB	ALA	26	32.025	59.649	2.196
ATOM	439	ZHB	ALA	26	33.054	59.788	3.640
ATOM	440	3HB	ALA	26	33.262	58.412	2.525
ATOM	441	C	ALA	26	30.665	57.373	2.882
ATOM	442	O	ALA	26	29.815	57.866	2.139
ATOM	443	N	SER	27	30.865	56.052	2.944
ATOM	444	H	SER	27	31.597	55.709	3.550
ATOM	445	CA	SER	27	30.066	55.062	2.217
ATOM	446	HA	SER	27	29.120	55.526	1.935
ATOM	447	CB	SER	27	30.772	54.644	0.921
ATOM	448	ZHB	SER	27	30.040	54.182	0.257
ATOM	449	3HB	SER	27	31.173	55.532	0.428
ATOM	450	OG	SER	27	31.815	53.715	1.159
ATOM	451	HG	SER	27	32.169	53.432	0.306
ATOM	452	C	SER	27	29.725	53.843	3.078
ATOM	453	O	SER	27	30.398	53.540	4.065
ATOM	454	N	GLU	28	28.677	53.115	2.698
ATOM	455	H	GLU	28	28.154	53.406	1.886
ATOM	456	CA	GLU	28	28.215	51.927	3.430
ATOM	457	HA	GLU	28	28.073	52.211	4.473
ATOM	458	CB	GLU	28	26.854	51.490	2.875
ATOM	459	ZHB	GLU	28	26.448	50.698	3.499
ATOM	460	3HB	GLU	28	26.189	52.352	2.963
ATOM	461	CG	GLU	28	26.880	50.998	1.410
ATOM	462	ZHG	GLU	28	27.488	51.683	0.808
ATOM	463	3HG	GLU	28	27.333	50.013	1.361
ATOM	464	CD	GLU	28	25.463	50.988	0.827
ATOM	465	OE1	GLU	28	24.796	52.027	0.907
ATOM	466	OE2	GLU	28	24.960	49.960	0.304
ATOM	467	C	GLU	28	29.214	50.759	3.426
ATOM	468	O	GLU	28	29.189	49.933	4.336
ATOM	469	N	GLU	29	30.112	50.703	2.438
ATOM	470	H	GLU	29	30.058	51.394	1.706
ATOM	471	CA	GLU	29	31.197	49.719	2.367
ATOM	472	HA	GLU	29	30.810	48.729	2.614
ATOM	473	CB	GLU	29	31.755	49.682	0.936
ATOM	474	ZHB	GLU	29	32.032	50.694	0.635
ATOM	475	3HB	GLU	29	32.652	49.061	0.919
ATOM	476	CG	GLU	29	30.743	49.109	-0.067
ATOM	477	ZHG	GLU	29	30.522	48.072	0.202
ATOM	478	3HG	GLU	29	29.809	49.674	-0.014
ATOM	479	CD	GLU	29	31.293	49.180	-1.496
ATOM	480	OE1	GLU	29	31.830	48.152	-1.966
ATOM	481	OE2	GLU	29	31.173	50.273	-2.098
ATOM	482	C	GLU	29	32.312	50.036	3.378
ATOM	483	O	GLU	29	32.806	49.134	4.052
ATOM	484	N	GLN	30	32.648	51.322	3.551
ATOM	485	H	GLN	30	32.161	52.023	3.009
ATOM	486	CA	GLN	30	33.579	51.772	4.592
ATOM	487	HA	GLN	30	34.502	51.189	4.532
ATOM	488	CB	GLN	30	33.911	53.259	4.398
ATOM	489	ZHB	GLN	30	32.988	53.830	4.294
ATOM	490	3HB	GLN	30	34.446	53.623	5.276
ATOM	491	CG	GLN	30	34.799	53.490	3.172
ATOM	492	ZHG	GLN	30	35.760	53.005	3.346
ATOM	493	3HG	GLN	30	34.349	53.038	2.289
ATOM	494	CD	GLN	30	35.031	54.969	2.882
ATOM	495	OE1	GLN	30	34.267	55.864	3.217
ATOM	496	NE2	GLN	30	36.115	55.280	2.207
ATOM	497	1HE2	GLN	30	36.267	56.253	2.029
ATOM	498	ZHE2	GLN	30	36.759	54.553	1.954
ATOM	499	C	GLN	30	32.991	51.544	5.988
ATOM	500	O	GLN	30	33.666	51.011	6.864
ATOM	501	N	VAL	31	31.707	51.869	6.182
ATOM	502	H	VAL	31	31.205	52.332	5.431
ATOM	503	CA	VAL	31	31.030	51.599	7.457
ATOM	504	HA	VAL	31	31.655	52.009	8.253

ATOM	505	CB	VAL	31	29.658	52.294	7.529
ATOM	506	HB	VAL	31	29.055	51.994	6.672
ATOM	507	CG1	VAL	31	28.876	51.952	8.803
ATOM	508	1HG1	VAL	31	29.439	52.255	9.686
ATOM	509	2HG1	VAL	31	27.925	52.475	8.778
ATOM	510	3HG1	VAL	31	28.667	50.884	8.857
ATOM	511	CG2	VAL	31	29.836	53.817	7.512
ATOM	512	1HG2	VAL	31	28.899	54.309	7.763
ATOM	513	2HG2	VAL	31	30.596	54.109	8.237
ATOM	514	3HG2	VAL	31	30.144	54.142	6.521
ATOM	515	C	VAL	31	30.926	50.098	7.733
ATOM	516	O	VAL	31	31.053	49.707	8.889
ATOM	517	N	ALA	32	30.737	49.234	6.730
ATOM	518	H	ALA	32	30.579	49.592	5.794
ATOM	519	CA	ALA	32	30.777	47.782	6.924
ATOM	520	HA	ALA	32	30.060	47.516	7.701
ATOM	521	CB	ALA	32	30.346	47.089	5.627
ATOM	522	1HB	ALA	32	29.320	47.368	5.388
ATOM	523	2HB	ALA	32	31.000	47.387	4.807
ATOM	524	3HB	ALA	32	30.404	46.008	5.752
ATOM	525	C	ALA	32	32.159	47.291	7.403
ATOM	526	O	ALA	32	32.219	46.402	8.253
ATOM	527	N	GLN	33	33.250	47.894	6.916
ATOM	528	H	GLN	33	33.131	48.613	6.209
ATOM	529	CA	GLN	33	34.607	47.635	7.408
ATOM	530	HA	GLN	33	34.772	46.557	7.394
ATOM	531	CB	GLN	33	35.634	48.303	6.473
ATOM	532	2HB	GLN	33	35.163	49.109	5.911
ATOM	533	3HB	GLN	33	36.449	48.728	7.062
ATOM	534	CG	GLN	33	36.227	47.287	5.488
ATOM	535	2HG	GLN	33	36.773	46.534	6.059
ATOM	536	3HG	GLN	33	35.427	46.791	4.937
ATOM	537	CD	GLN	33	37.167	47.928	4.475
ATOM	538	OE1	GLN	33	36.906	48.942	3.855
ATOM	539	NE2	GLN	33	38.312	47.327	4.228
ATOM	540	1HE2	GLN	33	38.554	46.495	4.728
ATOM	541	2HE2	GLN	33	38.877	47.757	3.525
ATOM	542	C	GLN	33	34.790	48.061	8.875
ATOM	543	O	GLN	33	35.234	47.243	9.680
ATOM	544	N	ASP	34	34.377	49.277	9.253
ATOM	545	H	ASP	34	34.076	49.934	8.538
ATOM	546	CA	ASP	34	34.412	49.720	10.658
ATOM	547	HA	ASP	34	35.432	49.631	11.035
ATOM	548	CB	ASP	34	33.980	51.195	10.758
ATOM	549	2HB	ASP	34	33.021	51.322	10.254
ATOM	550	3HB	ASP	34	33.830	51.433	11.812
ATOM	551	CG	ASP	34	34.995	52.205	10.202
ATOM	552	OD1	ASP	34	34.540	53.208	9.600
ATOM	553	OD2	ASP	34	36.203	52.043	10.486
ATOM	554	C	ASP	34	33.508	48.851	11.563
ATOM	555	O	ASP	34	33.840	48.586	12.721
ATOM	556	N	THR	35	32.374	48.365	11.041
ATOM	557	H	THR	35	32.165	48.626	10.084
ATOM	558	CA	THR	35	31.376	47.590	11.803
ATOM	559	HA	THR	35	31.096	48.171	12.682
ATOM	560	CB	THR	35	30.099	47.323	10.984
ATOM	561	HB	THR	35	30.339	46.733	10.099
ATOM	562	CG2	THR	35	29.006	46.612	11.783
ATOM	563	1HG2	THR	35	28.059	46.689	11.251
ATOM	564	2HG2	THR	35	29.251	45.560	11.905
ATOM	565	3HG2	THR	35	28.906	47.073	12.766
ATOM	566	OG1	THR	35	29.508	48.531	10.579
ATOM	567	1HG	THR	35	30.103	48.940	9.916
ATOM	568	C	THR	35	31.924	46.258	12.309
ATOM	569	O	THR	35	31.576	45.849	13.418
ATOM	570	N	GLU	36	32.791	45.571	11.556
ATOM	571	H	GLU	36	33.082	45.947	10.659
ATOM	572	CA	GLU	36	33.367	44.312	12.046
ATOM	573	HA	GLU	36	32.553	43.747	12.501
ATOM	574	CB	GLU	36	33.890	43.430	10.895
ATOM	575	2HB	GLU	36	33.864	42.404	11.263
ATOM	576	3HB	GLU	36	33.197	43.488	10.056
ATOM	577	CG	GLU	36	35.302	43.712	10.363
ATOM	578	2HG	GLU	36	35.268	44.484	9.594
ATOM	579	3HG	GLU	36	35.936	44.061	11.174
ATOM	580	CD	GLU	36	35.920	42.431	9.801
ATOM	581	OE1	GLU	36	35.679	42.103	8.613
ATOM	582	OE2	GLU	36	36.616	41.738	10.586
ATOM	583	C	GLU	36	34.375	44.534	13.188
ATOM	584	O	GLU	36	34.481	43.704	14.091
ATOM	585	N	GLU	37	35.054	45.684	13.202
ATOM	586	H	GLU	37	34.884	46.356	12.462
ATOM	587	CA	GLU	37	35.995	46.071	14.258
ATOM	588	HA	GLU	37	36.597	45.200	14.519
ATOM	589	CB	GLU	37	36.911	47.174	13.694
ATOM	590	2HB	GLU	37	37.113	46.965	12.641
ATOM	591	3HB	GLU	37	36.380	48.126	13.744
ATOM	592	CG	GLU	37	38.259	47.322	14.416
ATOM	593	2HG	GLU	37	38.796	48.155	13.955
ATOM	594	3HG	GLU	37	38.071	47.590	15.455
ATOM	595	CD	GLU	37	39.129	46.052	14.361
ATOM	596	OE1	GLU	37	39.541	45.535	15.418
ATOM	597	OE2	GLU	37	39.330	45.487	13.254
ATOM	598	C	GLU	37	35.245	46.516	15.529
ATOM	599	O	GLU	37	35.610	46.115	16.639
ATOM	600	N	VAL	38	34.135	47.252	15.365
ATOM	601	H	VAL	38	33.923	47.580	14.424
ATOM	602	CA	VAL	38	33.181	47.567	16.443
ATOM	603	HA	VAL	38	33.717	48.076	17.244
ATOM	604	CB	VAL	38	32.054	48.499	15.937
ATOM	605	HB	VAL	38	31.598	48.044	15.059
ATOM	606	CG1	VAL	38	30.949	48.731	16.979
ATOM	607	1HG1	VAL	38	30.408	47.806	17.174
ATOM	608	2HG1	VAL	38	31.380	49.102	17.908
ATOM	609	3HG1	VAL	38	30.233	49.461	16.598

ATOM	610	CG2	VAL	38	32.576	49.886	15.545
ATOM	611	1HG2	VAL	38	31.796	50.417	15.001
ATOM	612	2HG2	VAL	38	32.857	50.455	16.430
ATOM	613	3HG2	VAL	38	33.438	49.801	14.889
ATOM	614	C	VAL	38	32.587	46.282	17.032
ATOM	615	O	VAL	38	32.572	46.133	18.254
ATOM	616	N	PHE	39	32.135	45.332	16.202
ATOM	617	H	PHE	39	32.153	45.517	15.202
ATOM	618	CA	PHE	39	31.489	44.098	16.664
ATOM	619	HA	PHE	39	30.703	44.373	17.367
ATOM	620	CB	PHE	39	30.821	43.371	15.489
ATOM	621	ZHB	PHE	39	30.193	44.081	14.948
ATOM	622	3HB	PHE	39	31.590	43.023	14.797
ATOM	623	CG	PHE	39	29.952	42.197	15.915
ATOM	624	CD1	PHE	39	28.629	42.416	16.344
ATOM	625	HD1	PHE	39	28.234	43.419	16.352
ATOM	626	CE1	PHE	39	27.823	41.337	16.753
ATOM	627	HE1	PHE	39	26.807	41.515	17.078
ATOM	628	CZ	PHE	39	28.336	40.029	16.724
ATOM	629	HZ	PHE	39	27.717	39.196	17.027
ATOM	630	CE2	PHE	39	29.656	39.804	16.295
ATOM	631	HE2	PHE	39	30.056	38.801	16.269
ATOM	632	CD2	PHE	39	30.464	40.886	15.905
ATOM	633	HD2	PHE	39	31.483	40.706	15.598
ATOM	634	C	PHE	39	32.456	43.174	17.415
ATOM	635	O	PHE	39	32.129	42.729	18.518
ATOM	636	N	ARG	40	33.667	42.931	16.886
ATOM	637	H	ARG	40	33.892	43.337	15.977
ATOM	638	CA	ARG	40	34.699	42.139	17.588
ATOM	639	HA	ARG	40	34.288	41.156	17.822
ATOM	640	CB	ARG	40	35.943	41.960	16.691
ATOM	641	ZHB	ARG	40	36.224	42.917	16.249
ATOM	642	3HB	ARG	40	36.773	41.603	17.304
ATOM	643	CG	ARG	40	35.674	40.923	15.584
ATOM	644	ZHG	ARG	40	35.304	40.016	16.064
ATOM	645	3HG	ARG	40	34.888	41.291	14.928
ATOM	646	CD	ARG	40	36.904	40.528	14.745
ATOM	647	ZHD	ARG	40	37.777	40.444	15.391
ATOM	648	3HD	ARG	40	36.713	39.539	14.326
ATOM	649	NE	ARG	40	37.174	41.444	13.619
ATOM	650	HE	ARG	40	36.738	41.252	12.723
ATOM	651	CZ	ARG	40	37.929	42.524	13.610
ATOM	652	NH1	ARG	40	38.587	42.960	14.643
ATOM	653	1HH1	ARG	40	38.655	42.419	15.491
ATOM	654	2HH1	ARG	40	39.080	43.856	14.586
ATOM	655	NH2	ARG	40	38.044	43.177	12.503
ATOM	656	1HH2	ARG	40	37.596	42.804	11.667
ATOM	657	2HH2	ARG	40	38.560	44.060	12.507
ATOM	658	C	ARG	40	35.052	42.763	18.943
ATOM	659	O	ARG	40	35.122	42.049	19.946
ATOM	660	N	SER	41	35.161	44.090	18.994
ATOM	661	H	SER	41	35.108	44.604	18.121
ATOM	662	CA	SER	41	35.430	44.839	20.227
ATOM	663	HA	SER	41	36.286	44.391	20.723
ATOM	664	CB	SER	41	35.796	46.284	19.887
ATOM	665	ZHB	SER	41	34.954	46.782	19.405
ATOM	666	3HB	SER	41	36.052	46.816	20.804
ATOM	667	OG	SER	41	36.909	46.292	19.016
ATOM	668	HG	SER	41	36.576	46.241	18.097
ATOM	669	C	SER	41	34.275	44.786	21.231
ATOM	670	O	SER	41	34.504	44.573	22.422
ATOM	671	N	TYR	42	33.031	44.916	20.766
ATOM	672	H	TYR	42	32.901	45.104	19.777
ATOM	673	CA	TYR	42	31.827	44.777	21.587
ATOM	674	HA	TYR	42	31.878	45.478	22.420
ATOM	675	CB	TYR	42	30.610	45.134	20.724
ATOM	676	ZHB	TYR	42	30.671	46.191	20.462
ATOM	677	3HB	TYR	42	30.654	44.565	19.795
ATOM	678	CG	TYR	42	29.266	44.887	21.378
ATOM	679	CD1	TYR	42	28.886	45.639	22.504
ATOM	680	HD1	TYR	42	29.571	46.372	22.904
ATOM	681	CE1	TYR	42	27.624	45.440	23.098
ATOM	682	HE1	TYR	42	27.327	46.020	23.956
ATOM	683	CZ	TYR	42	26.737	44.487	22.558
ATOM	684	OH	TYR	42	25.511	44.294	23.110
ATOM	685	HH	TYR	42	25.357	44.864	23.864
ATOM	686	CE2	TYR	42	27.123	43.733	21.434
ATOM	687	HE2	TYR	42	26.434	43.013	21.029
ATOM	688	CD2	TYR	42	28.390	43.919	20.851
ATOM	689	HD2	TYR	42	28.680	43.327	19.994
ATOM	690	C	TYR	42	31.705	43.376	22.198
ATOM	691	O	TYR	42	31.568	43.264	23.415
ATOM	692	N	VAL	43	31.850	42.316	21.393
ATOM	693	H	VAL	43	31.997	42.482	20.400
ATOM	694	CA	VAL	43	31.815	40.920	21.863
ATOM	695	HA	VAL	43	30.847	40.738	22.326
ATOM	696	CB	VAL	43	31.988	39.952	20.672
ATOM	697	HB	VAL	43	32.856	40.267	20.091
ATOM	698	CG1	VAL	43	32.208	38.496	21.104
ATOM	699	1HG1	VAL	43	33.190	38.389	21.568
ATOM	700	2HG1	VAL	43	31.438	38.188	21.811
ATOM	701	3HG1	VAL	43	32.180	37.845	20.231
ATOM	702	CG2	VAL	43	30.762	39.965	19.748
ATOM	703	1HG2	VAL	43	31.018	39.466	18.814
ATOM	704	2HG2	VAL	43	29.925	39.442	20.203
ATOM	705	3HG2	VAL	43	30.460	40.986	19.514
ATOM	706	C	VAL	43	32.871	40.671	22.944
ATOM	707	O	VAL	43	32.531	40.154	24.011
ATOM	708	N	PHE	44	34.117	41.097	22.712
ATOM	709	H	PHE	44	34.337	41.501	21.808
ATOM	710	CA	PHE	44	35.206	40.952	23.678
ATOM	711	HA	PHE	44	35.322	39.894	23.920
ATOM	712	CB	PHE	44	36.507	41.440	23.025
ATOM	713	ZHB	PHE	44	36.685	40.856	22.120
ATOM	714	3HB	PHE	44	36.392	42.481	22.723

ATOM	715	CG	PHE	44	37.722	41.320	23.921
ATOM	716	CD1	PHE	44	38.444	40.113	23.967
ATOM	717	HD1	PHE	44	38.141	39.272	23.358
ATOM	718	CE1	PHE	44	39.566	39.995	24.806
ATOM	719	HE1	PHE	44	40.120	39.066	24.834
ATOM	720	CZ	PHE	44	39.965	41.081	25.605
ATOM	721	HZ	PHE	44	40.824	40.986	26.253
ATOM	722	CE2	PHE	44	39.242	42.287	25.564
ATOM	723	HE2	PHE	44	39.540	43.118	26.188
ATOM	724	CD2	PHE	44	38.124	42.408	24.721
ATOM	725	HD2	PHE	44	37.573	43.337	24.693
ATOM	726	C	PHE	44	34.912	41.687	24.996
ATOM	727	O	PHE	44	34.862	41.062	26.057
ATOM	728	N	TYR	45	34.653	43.000	24.950
ATOM	729	H	TYR	45	34.653	43.477	24.055
ATOM	730	CA	TYR	45	34.457	43.793	26.170
ATOM	731	HA	TYR	45	35.280	43.571	26.850
ATOM	732	CB	TYR	45	34.495	45.295	25.848
ATOM	733	ZHB	TYR	45	33.853	45.497	24.988
ATOM	734	3HB	TYR	45	34.085	45.844	26.697
ATOM	735	CG	TYR	45	35.892	45.834	25.598
ATOM	736	CD1	TYR	45	36.867	45.732	26.611
ATOM	737	HD1	TYR	45	36.624	45.263	27.559
ATOM	738	CE1	TYR	45	38.170	46.212	26.392
ATOM	739	HE1	TYR	45	38.909	46.103	27.172
ATOM	740	CZ	TYR	45	38.499	46.815	25.159
ATOM	741	OH	TYR	45	39.753	47.295	24.956
ATOM	742	HH	TYR	45	40.331	47.048	25.680
ATOM	743	CE2	TYR	45	37.518	46.946	24.154
ATOM	744	HE2	TYR	45	37.770	47.423	23.218
ATOM	745	CD2	TYR	45	36.218	46.451	24.375
ATOM	746	HD2	TYR	45	35.466	46.550	23.605
ATOM	747	C	TYR	45	33.182	43.416	26.936
ATOM	748	O	TYR	45	33.211	43.377	28.165
ATOM	749	N	ARG	46	32.090	43.067	26.241
ATOM	750	H	ARG	46	32.117	43.107	25.227
ATOM	751	CA	ARG	46	30.845	42.624	26.885
ATOM	752	HA	ARG	46	30.616	43.326	27.687
ATOM	753	CB	ARG	46	29.704	42.624	25.851
ATOM	754	ZHB	ARG	46	29.678	43.588	25.342
ATOM	755	3HB	ARG	46	29.902	41.852	25.104
ATOM	756	CG	ARG	46	28.319	42.362	26.458
ATOM	757	ZHG	ARG	46	27.602	42.234	25.646
ATOM	758	3HG	ARG	46	28.350	41.433	27.028
ATOM	759	CD	ARG	46	27.826	43.498	27.364
ATOM	760	ZHD	ARG	46	28.628	43.810	28.032
ATOM	761	3HD	ARG	46	27.550	44.357	26.751
ATOM	762	NE	ARG	46	26.664	43.044	28.147
ATOM	763	HE	ARG	46	25.902	42.627	27.639
ATOM	764	CZ	ARG	46	26.575	42.982	29.465
ATOM	765	NH1	ARG	46	27.446	43.537	30.266
ATOM	766	1HH1	ARG	46	28.196	44.095	29.882
ATOM	767	2HH1	ARG	46	27.300	43.550	31.264
ATOM	768	NH2	ARG	46	25.582	42.336	30.002
ATOM	769	1HH2	ARG	46	24.834	41.969	29.436
ATOM	770	2HH2	ARG	46	25.501	42.333	30.996
ATOM	771	C	ARG	46	31.014	41.267	27.571
ATOM	772	O	ARG	46	30.538	41.088	28.688
ATOM	773	N	HIP	47	31.771	40.344	26.965
ATOM	774	H	HIP	47	32.137	40.529	26.038
ATOM	775	CA	HIP	47	32.125	39.080	27.621
ATOM	776	HA	HIP	47	31.210	38.634	28.012
ATOM	777	CB	HIP	47	32.746	38.113	26.607
ATOM	778	ZHB	HIP	47	32.060	37.987	25.767
ATOM	779	3HB	HIP	47	33.673	38.546	26.220
ATOM	780	CG	HIP	47	33.044	36.755	27.193
ATOM	781	ND1	HIP	47	32.232	36.028	28.049
ATOM	782	HD1	HIP	47	31.356	36.351	28.441
ATOM	783	CE1	HIP	47	32.862	34.871	28.339
ATOM	784	HE1	HIP	47	32.501	34.087	28.997
ATOM	785	NE2	HIP	47	34.043	34.852	27.687
ATOM	786	HE2	HIP	47	34.730	34.081	27.699
ATOM	787	CD2	HIP	47	34.182	36.032	26.980
ATOM	788	HD2	HIP	47	35.035	36.336	26.383
ATOM	789	C	HIP	47	33.031	39.288	28.836
ATOM	790	O	HIP	47	32.749	38.709	29.880
ATOM	791	N	GLN	48	34.041	40.154	28.722
ATOM	792	H	GLN	48	34.226	40.569	27.816
ATOM	793	CA	GLN	48	34.956	40.469	29.820
ATOM	794	HA	GLN	48	35.439	39.540	30.132
ATOM	795	CB	GLN	48	36.032	41.439	29.300
ATOM	796	ZHB	GLN	48	36.375	41.100	28.321
ATOM	797	3HB	GLN	48	35.617	42.442	29.198
ATOM	798	CG	GLN	48	37.241	41.475	30.238
ATOM	799	ZHG	GLN	48	36.955	41.898	31.200
ATOM	800	3HG	GLN	48	37.578	40.451	30.404
ATOM	801	CD	GLN	48	38.409	42.279	29.679
ATOM	802	OE1	GLN	48	38.283	43.233	28.919
ATOM	803	NE2	GLN	48	39.611	41.902	30.049
ATOM	804	1HE2	GLN	48	40.388	42.437	29.721
ATOM	805	2HE2	GLN	48	39.701	41.083	30.633
ATOM	806	C	GLN	48	34.204	41.027	31.040
ATOM	807	O	GLN	48	34.392	40.534	32.147
ATOM	808	N	GLN	49	33.279	41.969	30.825
ATOM	809	H	GLN	49	33.199	42.363	29.896
ATOM	810	CA	GLN	49	32.384	42.493	31.866
ATOM	811	HA	GLN	49	32.969	43.009	32.632
ATOM	812	CB	GLN	49	31.393	43.457	31.217
ATOM	813	ZHB	GLN	49	31.188	43.128	30.199
ATOM	814	3HB	GLN	49	30.450	43.442	31.770
ATOM	815	CG	GLN	49	31.874	44.900	31.201
ATOM	816	ZHG	GLN	49	31.985	45.243	32.233
ATOM	817	3HG	GLN	49	32.836	44.987	30.696
ATOM	818	CD	GLN	49	30.834	45.754	30.495
ATOM	819	OE1	GLN	49	30.157	45.342	29.559

ATOM	820	NE2	GLN	49	30.641	46.964	30.954
ATOM	821	1HE2	GLN	49	29.815	47.426	30.621
ATOM	822	2HE2	GLN	49	31.074	47.226	31.824
ATOM	823	C	GLN	49	31.551	41.417	32.565
ATOM	824	O	GLN	49	31.464	41.406	33.786
ATOM	825	N	GLU	50	30.919	40.517	31.805
ATOM	826	H	GLU	50	30.979	40.593	30.799
ATOM	827	CA	GLU	50	30.103	39.445	32.389
ATOM	828	HA	GLU	50	29.353	39.883	33.050
ATOM	829	CB	GLU	50	29.399	38.660	31.277
ATOM	830	2HB	GLU	50	30.059	38.562	30.413
ATOM	831	3HB	GLU	50	29.161	37.658	31.638
ATOM	832	CG	GLU	50	28.096	39.341	30.863
ATOM	833	2HG	GLU	50	27.475	39.492	31.750
ATOM	834	3HG	GLU	50	28.306	40.319	30.426
ATOM	835	CD	GLU	50	27.348	38.468	29.858
ATOM	836	OE1	GLU	50	26.259	37.954	30.180
ATOM	837	OE2	GLU	50	27.803	38.309	28.703
ATOM	838	C	GLU	50	30.911	38.484	33.264
ATOM	839	O	GLU	50	30.359	37.913	34.197
ATOM	840	N	GLN	51	32.207	38.320	32.988
ATOM	841	H	GLN	51	32.600	38.798	32.187
ATOM	842	CA	GLN	51	33.117	37.576	33.861
ATOM	843	HA	GLN	51	32.595	36.704	34.266
ATOM	844	CB	GLN	51	34.312	37.075	33.031
ATOM	845	2HB	GLN	51	34.816	37.936	32.595
ATOM	846	3HB	GLN	51	35.002	36.557	33.698
ATOM	847	CG	GLN	51	33.931	36.112	31.897
ATOM	848	2HG	GLN	51	33.521	35.198	32.326
ATOM	849	3HG	GLN	51	33.169	36.562	31.266
ATOM	850	CD	GLN	51	35.132	35.779	31.017
ATOM	851	OE1	GLN	51	35.481	36.498	30.096
ATOM	852	NE2	GLN	51	35.784	34.660	31.237
ATOM	853	1HE2	GLN	51	36.590	34.482	30.660
ATOM	854	2HE2	GLN	51	35.523	34.054	31.996
ATOM	855	C	GLN	51	33.557	38.430	35.071
ATOM	856	O	GLN	51	33.592	37.927	36.187
ATOM	857	N	GLU	52	33.808	39.735	34.896
ATOM	858	H	GLU	52	33.754	40.116	33.959
ATOM	859	CA	GLU	52	34.109	40.676	35.995
ATOM	860	HA	GLU	52	34.994	40.314	36.518
ATOM	861	CB	GLU	52	34.405	42.078	35.403
ATOM	862	2HB	GLU	52	34.527	41.989	34.325
ATOM	863	3HB	GLU	52	33.557	42.742	35.584
ATOM	864	CG	GLU	52	35.685	42.713	35.973
ATOM	865	2HG	GLU	52	35.542	42.888	37.041
ATOM	866	3HG	GLU	52	36.505	42.003	35.855
ATOM	867	CD	GLU	52	36.092	44.027	35.274
ATOM	868	OE1	GLU	52	36.023	44.092	34.021
ATOM	869	OE2	GLU	52	36.559	44.948	35.980
ATOM	870	C	GLU	52	32.975	40.740	37.041
ATOM	871	O	GLU	52	33.233	40.858	38.240
ATOM	872	N	ALA	53	31.721	40.585	36.599
ATOM	873	H	ALA	53	31.582	40.551	35.596
ATOM	874	CA	ALA	53	30.535	40.532	37.457
ATOM	875	HA	ALA	53	30.539	41.429	38.077
ATOM	876	CB	ALA	53	29.274	40.566	36.577
ATOM	877	1HB	ALA	53	28.524	41.195	37.058
ATOM	878	2HB	ALA	53	29.493	40.974	35.590
ATOM	879	3HB	ALA	53	28.869	39.559	36.462
ATOM	880	C	ALA	53	30.510	39.326	38.420
ATOM	881	O	ALA	53	29.833	39.385	39.446
ATOM	882	N	GLU	54	31.272	38.259	38.148
ATOM	883	H	GLU	54	31.817	38.252	37.291
ATOM	884	CA	GLU	54	31.455	37.129	39.075
ATOM	885	HA	GLU	54	30.506	36.957	39.586
ATOM	886	CB	GLU	54	31.804	35.838	38.308
ATOM	887	2HB	GLU	54	32.729	35.991	37.753
ATOM	888	3HB	GLU	54	31.973	35.043	39.036
ATOM	889	CG	GLU	54	30.692	35.386	37.348
ATOM	890	2HG	GLU	54	29.730	35.463	37.863
ATOM	891	3HG	GLU	54	30.666	36.061	36.491
ATOM	892	CD	GLU	54	30.898	33.939	36.866
ATOM	893	OE1	GLU	54	30.322	33.026	37.505
ATOM	894	OE2	GLU	54	31.626	33.740	35.863
ATOM	895	C	GLU	54	32.489	37.424	40.187
ATOM	896	O	GLU	54	32.848	36.541	40.967
ATOM	897	N	GLY	55	32.979	38.666	40.287
ATOM	898	H	GLY	55	32.662	39.354	39.611
ATOM	899	CA	GLY	55	33.896	39.112	41.341
ATOM	900	2HA	GLY	55	33.785	40.189	41.455
ATOM	901	3HA	GLY	55	33.627	38.624	42.277
ATOM	902	C	GLY	55	35.377	38.835	41.091
ATOM	903	O	GLY	55	36.195	39.065	41.983
ATOM	904	N	VAL	56	35.743	38.361	39.900
ATOM	905	H	VAL	56	35.022	38.205	39.208
ATOM	906	CA	VAL	56	37.138	38.172	39.495
ATOM	907	HA	VAL	56	37.743	38.091	40.400
ATOM	908	CB	VAL	56	37.363	36.892	38.672
ATOM	909	HB	VAL	56	38.279	37.058	38.097
ATOM	910	CG1	VAL	56	37.633	35.694	39.592
ATOM	911	1HG1	VAL	56	37.252	35.894	40.595
ATOM	912	2HG1	VAL	56	38.705	35.504	39.608
ATOM	913	3HG1	VAL	56	37.141	34.794	39.226
ATOM	914	CG2	VAL	56	36.257	36.510	37.674
ATOM	915	1HG2	VAL	56	36.694	36.391	36.685
ATOM	916	2HG2	VAL	56	35.764	35.578	37.949
ATOM	917	3HG2	VAL	56	35.483	37.266	37.630
ATOM	918	C	VAL	56	37.696	39.349	38.716
ATOM	919	O	VAL	56	37.115	39.838	37.756
ATOM	920	N	ALA	57	38.912	39.729	39.093
ATOM	921	H	ALA	57	39.364	39.223	39.834
ATOM	922	CA	ALA	57	39.666	40.758	38.407
ATOM	923	HA	ALA	57	38.995	41.591	38.187
ATOM	924	CB	ALA	57	40.770	41.229	39.347

ATOM	925	1HB	ALA	57	41.339	42.018	38.853
ATOM	926	2HB	ALA	57	40.339	41.605	40.275
ATOM	927	3HB	ALA	57	41.434	40.390	39.563
ATOM	928	C	ALA	57	40.282	40.239	37.102
ATOM	929	O	ALA	57	40.908	39.179	37.093
ATOM	930	N	ALA	58	40.175	41.032	36.033
ATOM	931	H	ALA	58	39.618	41.869	36.126
ATOM	932	CA	ALA	58	40.844	40.811	34.744
ATOM	933	HA	ALA	58	40.305	41.411	34.010
ATOM	934	CB	ALA	58	42.267	41.371	34.838
ATOM	935	1HB	ALA	58	42.840	40.781	35.555
ATOM	936	2HB	ALA	58	42.237	42.413	35.152
ATOM	937	3HB	ALA	58	42.745	41.301	33.860
ATOM	938	C	ALA	58	40.807	39.368	34.183
ATOM	939	O	ALA	58	41.848	38.847	33.765
ATOM	940	N	PRO	59	39.638	38.706	34.126
ATOM	941	CD	PRO	59	38.324	39.182	34.530
ATOM	942	ZHD	PRO	59	38.147	40.207	34.201
ATOM	943	3HD	PRO	59	38.232	39.107	35.612
ATOM	944	CG	PRO	59	37.317	38.246	33.882
ATOM	945	ZHG	PRO	59	37.014	38.650	32.915
ATOM	946	3HG	PRO	59	36.461	38.102	34.537
ATOM	947	CB	PRO	59	38.100	36.948	33.685
ATOM	948	2HB	PRO	59	38.078	36.364	34.605
ATOM	949	3HB	PRO	59	37.717	36.358	32.850
ATOM	950	CA	PRO	59	39.528	37.432	33.441
ATOM	951	HA	PRO	59	40.231	36.718	33.873
ATOM	952	C	PRO	59	39.841	37.612	31.953
ATOM	953	O	PRO	59	39.396	38.556	31.295
ATOM	954	N	ALA	60	40.613	36.671	31.420
ATOM	955	H	ALA	60	40.954	35.930	32.016
ATOM	956	CA	ALA	60	40.776	36.465	29.990
ATOM	957	HA	ALA	60	40.260	37.258	29.444
ATOM	958	CB	ALA	60	42.264	36.535	29.630
ATOM	959	1HB	ALA	60	42.656	37.522	29.882
ATOM	960	2HB	ALA	60	42.816	35.773	30.183
ATOM	961	3HB	ALA	60	42.388	36.362	28.560
ATOM	962	C	ALA	60	40.129	35.129	29.612
ATOM	963	O	ALA	60	40.121	34.194	30.413
ATOM	964	N	ASP	61	39.571	35.050	28.411
ATOM	965	H	ASP	61	39.658	35.829	27.776
ATOM	966	CA	ASP	61	39.009	33.813	27.890
ATOM	967	HA	ASP	61	38.732	33.171	28.722
ATOM	968	CB	ASP	61	37.727	34.153	27.145
ATOM	969	2HB	ASP	61	37.099	34.782	27.775
ATOM	970	3HB	ASP	61	37.966	34.700	26.239
ATOM	971	CG	ASP	61	36.953	32.896	26.792
ATOM	972	OD1	ASP	61	37.475	32.068	26.033
ATOM	973	OD2	ASP	61	35.798	32.795	27.280
ATOM	974	C	ASP	61	40.052	33.116	27.000
ATOM	975	O	ASP	61	40.533	33.763	26.065
ATOM	976	N	PRO	62	40.439	31.851	27.274
ATOM	977	CD	PRO	62	39.886	30.998	28.315
ATOM	978	ZHD	PRO	62	38.852	30.744	28.078
ATOM	979	3HD	PRO	62	39.937	31.500	29.281
ATOM	980	CG	PRO	62	40.733	29.729	28.377
ATOM	981	ZHG	PRO	62	40.104	28.846	28.247
ATOM	982	3HG	PRO	62	41.256	29.679	29.332
ATOM	983	CB	PRO	62	41.744	29.824	27.237
ATOM	984	2HB	PRO	62	42.760	29.673	27.607
ATOM	985	3HB	PRO	62	41.515	29.064	26.486
ATOM	986	CA	PRO	62	41.604	31.228	26.640
ATOM	987	HA	PRO	62	42.485	31.815	26.902
ATOM	988	C	PRO	62	41.540	31.128	25.114
ATOM	989	O	PRO	62	42.588	31.017	24.482
ATOM	990	N	GLU	63	40.343	31.176	24.523
ATOM	991	H	GLU	63	39.517	31.233	25.108
ATOM	992	CA	GLU	63	40.162	31.131	23.069
ATOM	993	HA	GLU	63	41.114	30.889	22.595
ATOM	994	CB	GLU	63	39.188	30.002	22.702
ATOM	995	2HB	GLU	63	38.298	30.056	23.328
ATOM	996	3HB	GLU	63	38.893	30.117	21.658
ATOM	997	CG	GLU	63	39.855	28.632	22.897
ATOM	998	ZHG	GLU	63	40.844	28.642	22.432
ATOM	999	3HG	GLU	63	39.991	28.456	23.968
ATOM	1000	CD	GLU	63	39.020	27.503	22.284
ATOM	1001	OE1	GLU	63	38.959	27.433	21.030
ATOM	1002	OE2	GLU	63	38.416	26.734	23.059
ATOM	1003	C	GLU	63	39.760	32.487	22.469
ATOM	1004	O	GLU	63	40.137	32.778	21.332
ATOM	1005	N	MET	64	39.099	33.381	23.218
ATOM	1006	H	MET	64	38.796	33.095	24.143
ATOM	1007	CA	MET	64	38.662	34.683	22.684
ATOM	1008	HA	MET	64	38.253	34.485	21.692
ATOM	1009	CB	MET	64	37.534	35.303	23.534
ATOM	1010	2HB	MET	64	36.993	34.521	24.064
ATOM	1011	3HB	MET	64	37.960	35.988	24.268
ATOM	1012	CG	MET	64	36.532	36.062	22.651
ATOM	1013	ZHG	MET	64	37.069	36.859	22.137
ATOM	1014	3HG	MET	64	36.144	35.378	21.894
ATOM	1015	SD	MET	64	35.119	36.815	23.516
ATOM	1016	CE	MET	64	33.928	35.443	23.482
ATOM	1017	1HE	MET	64	32.998	35.757	23.958
ATOM	1018	2HE	MET	64	33.720	35.162	22.450
ATOM	1019	3HE	MET	64	34.331	34.580	24.013
ATOM	1020	C	MET	64	39.836	35.652	22.467
ATOM	1021	O	MET	64	39.687	36.642	21.756
ATOM	1022	N	VAL	65	41.021	35.333	23.001
ATOM	1023	H	VAL	65	41.050	34.529	23.617
ATOM	1024	CA	VAL	65	42.299	35.982	22.651
ATOM	1025	HA	VAL	65	42.162	37.062	22.721
ATOM	1026	CB	VAL	65	43.422	35.574	23.622
ATOM	1027	HB	VAL	65	44.333	36.090	23.319
ATOM	1028	CG1	VAL	65	43.120	36.010	25.058
ATOM	1029	1HG1	VAL	65	44.021	35.894	25.658

ATOM	1030	ZHG1	VAL	65	42.331	35.392	25.483
ATOM	1031	3HG1	VAL	65	42.810	37.054	25.072
ATOM	1032	CG2	VAL	65	43.704	34.065	23.604
ATOM	1033	1HG2	VAL	65	44.098	33.765	22.633
ATOM	1034	2HG2	VAL	65	44.444	33.817	24.364
ATOM	1035	3HG2	VAL	65	42.796	33.499	23.807
ATOM	1036	C	VAL	65	42.776	35.716	21.219
ATOM	1037	O	VAL	65	43.658	36.425	20.743
ATOM	1038	N	THR	66	42.218	34.723	20.518
ATOM	1039	H	THR	66	41.537	34.122	20.970
ATOM	1040	CA	THR	66	42.504	34.504	19.087
ATOM	1041	HA	THR	66	43.553	34.731	18.907
ATOM	1042	CB	THR	66	42.274	33.045	18.671
ATOM	1043	HB	THR	66	42.583	32.953	17.629
ATOM	1044	CG2	THR	66	43.089	32.043	19.490
ATOM	1045	1HG2	THR	66	43.050	31.073	18.995
ATOM	1046	2HG2	THR	66	44.128	32.367	19.549
ATOM	1047	3HG2	THR	66	42.686	31.944	20.498
ATOM	1048	OG1	THR	66	40.913	32.699	18.755
ATOM	1049	1HG	THR	66	40.668	32.596	19.696
ATOM	1050	C	THR	66	41.707	35.431	18.162
ATOM	1051	O	THR	66	42.005	35.535	16.970
ATOM	1052	N	LEU	67	40.711	36.143	18.697
ATOM	1053	H	LEU	67	40.556	36.079	19.693
ATOM	1054	CA	LEU	67	39.910	37.107	17.957
ATOM	1055	HA	LEU	67	39.589	36.629	17.036
ATOM	1056	CB	LEU	67	38.678	37.431	18.816
ATOM	1057	ZHB	LEU	67	38.264	36.505	19.218
ATOM	1058	3HB	LEU	67	39.012	38.039	19.659
ATOM	1059	CG	LEU	67	37.567	38.190	18.074
ATOM	1060	HG	LEU	67	37.994	39.073	17.600
ATOM	1061	CD1	LEU	67	36.910	37.317	16.998
ATOM	1062	1HD1	LEU	67	37.599	37.143	16.177
ATOM	1063	2HD1	LEU	67	36.634	36.355	17.427
ATOM	1064	3HD1	LEU	67	36.019	37.809	16.615
ATOM	1065	CD2	LEU	67	36.478	38.637	19.059
ATOM	1066	1HD2	LEU	67	35.545	38.098	18.898
ATOM	1067	2HD2	LEU	67	36.793	38.468	20.090
ATOM	1068	3HD2	LEU	67	36.302	39.703	18.931
ATOM	1069	C	LEU	67	40.745	38.368	17.646
ATOM	1070	O	LEU	67	41.267	38.984	18.577
ATOM	1071	N	PRO	68	40.863	38.808	16.376
ATOM	1072	CD	PRO	68	40.356	38.169	15.174
ATOM	1073	ZHD	PRO	68	39.272	38.270	15.136
ATOM	1074	3HD	PRO	68	40.643	37.116	15.147
ATOM	1075	CG	PRO	68	40.979	38.897	13.982
ATOM	1076	ZHG	PRO	68	40.206	39.177	13.264
ATOM	1077	3HG	PRO	68	41.716	38.249	13.502
ATOM	1078	CB	PRO	68	41.671	40.143	14.540
ATOM	1079	ZHB	PRO	68	42.716	40.163	14.226
ATOM	1080	3HB	PRO	68	41.164	41.042	14.187
ATOM	1081	CA	PRO	68	41.587	40.036	16.064
ATOM	1082	HA	PRO	68	42.597	39.944	16.466
ATOM	1083	C	PRO	68	40.912	41.261	16.690
ATOM	1084	O	PRO	68	39.684	41.378	16.678
ATOM	1085	N	LEU	69	41.731	42.163	17.230
ATOM	1086	H	LEU	69	42.720	41.974	17.228
ATOM	1087	CA	LEU	69	41.287	43.259	18.075
ATOM	1088	HA	LEU	69	40.312	43.616	17.741
ATOM	1089	CB	LEU	69	41.221	42.690	19.503
ATOM	1090	ZHB	LEU	69	40.876	41.654	19.474
ATOM	1091	3HB	LEU	69	42.231	42.670	19.914
ATOM	1092	CG	LEU	69	40.310	43.473	20.460
ATOM	1093	HG	LEU	69	40.579	44.534	20.442
ATOM	1094	CD1	LEU	69	38.833	43.306	20.102
ATOM	1095	1HD1	LEU	69	38.590	43.886	19.216
ATOM	1096	2HD1	LEU	69	38.223	43.666	20.924
ATOM	1097	3HD1	LEU	69	38.605	42.255	19.932
ATOM	1098	CD2	LEU	69	40.467	42.946	21.893
ATOM	1099	1HD2	LEU	69	41.407	43.310	22.308
ATOM	1100	2HD2	LEU	69	39.651	43.301	22.527
ATOM	1101	3HD2	LEU	69	40.453	41.850	21.891
ATOM	1102	C	LEU	69	42.299	44.408	18.036
ATOM	1103	O	LEU	69	43.501	44.165	18.137
ATOM	1104	N	GLN	70	41.841	45.661	17.983
ATOM	1105	H	GLN	70	40.854	45.815	17.807
ATOM	1106	CA	GLN	70	42.713	46.826	18.164
ATOM	1107	HA	GLN	70	43.728	46.496	18.384
ATOM	1108	CB	GLN	70	42.822	47.623	16.861
ATOM	1109	ZHB	GLN	70	41.828	47.848	16.474
ATOM	1110	3HB	GLN	70	43.330	48.558	17.095
ATOM	1111	CG	GLN	70	43.636	46.870	15.795
ATOM	1112	ZHG	GLN	70	44.485	46.363	16.257
ATOM	1113	3HG	GLN	70	43.005	46.113	15.324
ATOM	1114	CD	GLN	70	44.195	47.816	14.742
ATOM	1115	OE1	GLN	70	44.843	48.807	15.039
ATOM	1116	NE2	GLN	70	43.982	47.551	13.472
ATOM	1117	1HE2	GLN	70	43.423	46.757	13.210
ATOM	1118	2HE2	GLN	70	44.405	48.171	12.810
ATOM	1119	C	GLN	70	42.242	47.689	19.349
ATOM	1120	O	GLN	70	41.427	48.596	19.148
ATOM	1121	N	PRO	71	42.761	47.447	20.577
ATOM	1122	CD	PRO	71	43.811	46.478	20.866
ATOM	1123	ZHD	PRO	71	44.748	46.805	20.412
ATOM	1124	3HD	PRO	71	43.542	45.491	20.485
ATOM	1125	CG	PRO	71	43.975	46.406	22.380
ATOM	1126	ZHG	PRO	71	45.019	46.574	22.652
ATOM	1127	3HG	PRO	71	43.650	45.430	22.740
ATOM	1128	CB	PRO	71	43.084	47.502	22.965
ATOM	1129	ZHB	PRO	71	42.392	47.073	23.689
ATOM	1130	3HB	PRO	71	43.706	48.250	23.460
ATOM	1131	CA	PRO	71	42.304	48.121	21.797
ATOM	1132	HA	PRO	71	41.241	47.921	21.935
ATOM	1133	C	PRO	71	42.503	49.642	21.781
ATOM	1134	O	PRO	71	41.770	50.366	22.451

ATOM	1135	N	SER	72	43.490	50.122	21.022
ATOM	1136	H	SER	72	44.152	49.472	20.630
ATOM	1137	CA	SER	72	43.813	51.547	20.894
ATOM	1138	HA	SER	72	43.532	52.048	21.821
ATOM	1139	CB	SER	72	45.320	51.738	20.691
ATOM	1140	2HB	SER	72	45.557	51.609	19.634
ATOM	1141	3HB	SER	72	45.590	52.751	20.990
ATOM	1142	OG	SER	72	46.075	50.800	21.440
ATOM	1143	HG	SER	72	47.008	51.010	21.338
ATOM	1144	C	SER	72	43.066	52.257	19.760
ATOM	1145	O	SER	72	43.263	53.456	19.572
ATOM	1146	N	SER	73	42.255	51.546	18.968
ATOM	1147	H	SER	73	42.061	50.579	19.197
ATOM	1148	CA	SER	73	41.520	52.151	17.854
ATOM	1149	HA	SER	73	42.157	52.921	17.416
ATOM	1150	CB	SER	73	41.245	51.133	16.738
ATOM	1151	2HB	SER	73	41.035	51.679	15.816
ATOM	1152	3HB	SER	73	42.133	50.521	16.575
ATOM	1153	OG	SER	73	40.137	50.306	17.037
ATOM	1154	HG	SER	73	40.461	49.494	17.457
ATOM	1155	C	SER	73	40.237	52.844	18.320
ATOM	1156	O	SER	73	39.630	52.480	19.332
ATOM	1157	N	THR	74	39.781	53.822	17.539
ATOM	1158	H	THR	74	40.299	54.085	16.711
ATOM	1159	CA	THR	74	38.482	54.482	17.731
ATOM	1160	HA	THR	74	38.471	54.941	18.718
ATOM	1161	CB	THR	74	38.256	55.568	16.656
ATOM	1162	HB	THR	74	37.214	55.545	16.338
ATOM	1163	CG2	THR	74	38.565	56.979	17.166
ATOM	1164	1HG2	THR	74	37.624	57.511	17.300
ATOM	1165	2HG2	THR	74	39.179	57.532	16.453
ATOM	1166	3HG2	THR	74	39.091	56.948	18.120
ATOM	1167	OG1	THR	74	39.063	55.346	15.517
ATOM	1168	1HG	THR	74	38.810	55.994	14.850
ATOM	1169	C	THR	74	37.319	53.488	17.710
ATOM	1170	O	THR	74	36.415	53.605	18.533
ATOM	1171	N	MET	75	37.366	52.468	16.847
ATOM	1172	H	MET	75	38.139	52.414	16.202
ATOM	1173	CA	MET	75	36.331	51.427	16.777
ATOM	1174	HA	MET	75	35.353	51.907	16.817
ATOM	1175	CB	MET	75	36.435	50.677	15.437
ATOM	1176	2HB	MET	75	37.393	50.158	15.382
ATOM	1177	3HB	MET	75	35.643	49.933	15.387
ATOM	1178	CG	MET	75	36.311	51.619	14.226
ATOM	1179	2HG	MET	75	37.266	52.131	14.102
ATOM	1180	3HG	MET	75	36.145	51.024	13.326
ATOM	1181	SD	MET	75	35.007	52.888	14.356
ATOM	1182	CE	MET	75	35.541	54.027	13.053
ATOM	1183	1HE	MET	75	36.598	53.882	12.831
ATOM	1184	2HE	MET	75	34.963	53.847	12.150
ATOM	1185	3HE	MET	75	35.375	55.052	13.376
ATOM	1186	C	MET	75	36.373	50.477	17.983
ATOM	1187	O	MET	75	35.323	50.075	18.485
ATOM	1188	N	GLY	76	37.568	50.227	18.532
ATOM	1189	H	GLY	76	38.395	50.571	18.057
ATOM	1190	CA	GLY	76	37.751	49.558	19.821
ATOM	1191	2HA	GLY	76	37.325	48.562	19.772
ATOM	1192	3HA	GLY	76	38.818	49.475	20.029
ATOM	1193	C	GLY	76	37.091	50.303	20.983
ATOM	1194	O	GLY	76	36.450	49.679	21.830
ATOM	1195	N	GLN	77	37.167	51.639	20.999
ATOM	1196	H	GLN	77	37.725	52.100	20.289
ATOM	1197	CA	GLN	77	36.456	52.451	21.992
ATOM	1198	HA	GLN	77	36.583	51.973	22.964
ATOM	1199	CB	GLN	77	37.047	53.869	22.082
ATOM	1200	2HB	GLN	77	37.416	54.190	21.104
ATOM	1201	3HB	GLN	77	36.247	54.552	22.379
ATOM	1202	CG	GLN	77	38.187	53.937	23.113
ATOM	1203	2HG	GLN	77	39.091	53.538	22.658
ATOM	1204	3HG	GLN	77	37.936	53.331	23.980
ATOM	1205	CD	GLN	77	38.430	55.349	23.630
ATOM	1206	OE1	GLN	77	37.537	56.097	23.960
ATOM	1207	NE2	GLN	77	39.672	55.749	23.812
ATOM	1208	1HE2	GLN	77	39.774	56.677	24.181
ATOM	1209	2HE2	GLN	77	40.438	55.154	23.566
ATOM	1210	C	GLN	77	34.936	52.487	21.771
ATOM	1211	O	GLN	77	34.201	52.346	22.747
ATOM	1212	N	VAL	78	34.451	52.593	20.527
ATOM	1213	H	VAL	78	35.102	52.750	19.762
ATOM	1214	CA	VAL	78	33.003	52.540	20.240
ATOM	1215	HA	VAL	78	32.514	53.315	20.832
ATOM	1216	CB	VAL	78	32.711	52.817	18.750
ATOM	1217	HB	VAL	78	33.340	52.165	18.144
ATOM	1218	CG1	VAL	78	31.248	52.558	18.367
ATOM	1219	1HG1	VAL	78	30.573	53.154	18.973
ATOM	1220	2HG1	VAL	78	31.092	52.820	17.330
ATOM	1221	3HG1	VAL	78	31.002	51.504	18.473
ATOM	1222	CG2	VAL	78	33.022	54.274	18.382
ATOM	1223	1HG2	VAL	78	32.390	54.952	18.956
ATOM	1224	2HG2	VAL	78	34.063	54.504	18.595
ATOM	1225	3HG2	VAL	78	32.844	54.428	17.318
ATOM	1226	C	VAL	78	32.398	51.201	20.681
ATOM	1227	O	VAL	78	31.387	51.196	21.384
ATOM	1228	N	GLY	79	33.040	50.071	20.354
ATOM	1229	H	GLY	79	33.857	50.135	19.750
ATOM	1230	CA	GLY	79	32.600	48.741	20.796
ATOM	1231	2HA	GLY	79	31.607	48.535	20.399
ATOM	1232	3HA	GLY	79	33.288	47.998	20.397
ATOM	1233	C	GLY	79	32.569	48.596	22.325
ATOM	1234	O	GLY	79	31.658	47.986	22.886
ATOM	1235	N	ARG	80	33.521	49.223	23.028
ATOM	1236	H	ARG	80	34.236	49.719	22.507
ATOM	1237	CA	ARG	80	33.610	49.250	24.500
ATOM	1238	HA	ARG	80	33.471	48.238	24.886
ATOM	1239	CB	ARG	80	35.019	49.726	24.862

ATOM	1240	ZHB	ARG	80	35.727	49.148	24.270
ATOM	1241	3HB	ARG	80	35.121	50.772	24.572
ATOM	1242	CG	ARG	80	35.413	49.586	26.339
ATOM	1243	ZHG	ARG	80	34.813	50.251	26.963
ATOM	1244	3HG	ARG	80	35.303	48.553	26.673
ATOM	1245	CD	ARG	80	36.884	49.998	26.382
ATOM	1246	ZHD	ARG	80	37.461	49.281	25.796
ATOM	1247	3HD	ARG	80	36.974	50.984	25.919
ATOM	1248	NE	ARG	80	37.449	50.069	27.735
ATOM	1249	HE	ARG	80	36.875	49.762	28.505
ATOM	1250	CZ	ARG	80	38.655	50.541	27.989
ATOM	1251	NH1	ARG	80	39.090	50.644	29.209
ATOM	1252	1HH1	ARG	80	38.512	50.350	29.977
ATOM	1253	2HH1	ARG	80	40.005	51.014	29.385
ATOM	1254	NH2	ARG	80	39.461	50.924	27.035
ATOM	1255	1HH2	ARG	80	39.167	50.814	26.079
ATOM	1256	2HH2	ARG	80	40.368	51.296	27.244
ATOM	1257	C	ARG	80	32.540	50.124	25.154
ATOM	1258	O	ARG	80	31.968	49.715	26.158
ATOM	1259	N	GLN	81	32.226	51.289	24.587
ATOM	1260	H	GLN	81	32.742	51.585	23.765
ATOM	1261	CA	GLN	81	31.111	52.121	25.057
ATOM	1262	HA	GLN	81	31.191	52.245	26.140
ATOM	1263	CB	GLN	81	31.185	53.509	24.405
ATOM	1264	ZHB	GLN	81	31.523	53.408	23.373
ATOM	1265	3HB	GLN	81	30.190	53.960	24.410
ATOM	1266	CG	GLN	81	32.139	54.439	25.170
ATOM	1267	ZHG	GLN	81	31.784	54.539	26.197
ATOM	1268	3HG	GLN	81	33.137	54.005	25.188
ATOM	1269	CD	GLN	81	32.236	55.820	24.533
ATOM	1270	OE1	GLN	81	32.481	55.975	23.351
ATOM	1271	NE2	GLN	81	32.069	56.879	25.294
ATOM	1272	1HE2	GLN	81	32.161	57.770	24.838
ATOM	1273	2HE2	GLN	81	31.867	56.790	26.272
ATOM	1274	C	GLN	81	29.757	51.440	24.813
ATOM	1275	O	GLN	81	28.906	51.460	25.697
ATOM	1276	N	LEU	82	29.585	50.744	23.687
ATOM	1277	H	LEU	82	30.281	50.826	22.950
ATOM	1278	CA	LEU	82	28.430	49.871	23.466
ATOM	1279	HA	LEU	82	27.527	50.466	23.585
ATOM	1280	CB	LEU	82	28.525	49.308	22.049
ATOM	1281	ZHB	LEU	82	29.573	49.213	21.770
ATOM	1282	3HB	LEU	82	28.088	48.310	22.019
ATOM	1283	CG	LEU	82	27.800	50.199	21.025
ATOM	1284	HG	LEU	82	28.043	51.250	21.218
ATOM	1285	CD1	LEU	82	28.244	49.840	19.601
ATOM	1286	1HD1	LEU	82	28.437	48.768	19.520
ATOM	1287	2HD1	LEU	82	27.478	50.112	18.874
ATOM	1288	3HD1	LEU	82	29.143	50.411	19.379
ATOM	1289	CD2	LEU	82	26.277	50.023	21.062
ATOM	1290	1HD2	LEU	82	25.880	50.424	21.990
ATOM	1291	2HD2	LEU	82	25.825	50.576	20.239
ATOM	1292	3HD2	LEU	82	26.019	48.966	20.969
ATOM	1293	C	LEU	82	28.332	48.718	24.471
ATOM	1294	O	LEU	82	27.235	48.364	24.898
ATOM	1295	N	ALA	83	29.466	48.134	24.868
ATOM	1296	H	ALA	83	30.323	48.365	24.387
ATOM	1297	CA	ALA	83	29.504	47.128	25.931
ATOM	1298	HA	ALA	83	28.760	46.366	25.712
ATOM	1299	CB	ALA	83	30.875	46.441	25.959
ATOM	1300	1HB	ALA	83	30.914	45.762	26.812
ATOM	1301	2HB	ALA	83	31.009	45.869	25.040
ATOM	1302	3HB	ALA	83	31.676	47.171	26.058
ATOM	1303	C	ALA	83	29.102	47.704	27.294
ATOM	1304	O	ALA	83	28.320	47.072	27.996
ATOM	1305	N	ILE	84	29.541	48.919	27.634
ATOM	1306	H	ILE	84	30.212	49.391	27.039
ATOM	1307	CA	ILE	84	29.200	49.538	28.918
ATOM	1308	HA	ILE	84	29.388	48.785	29.674
ATOM	1309	CB	ILE	84	30.155	50.735	29.195
ATOM	1310	HB	ILE	84	30.971	50.676	28.470
ATOM	1311	CG2	ILE	84	29.522	52.136	29.039
ATOM	1312	1HG2	ILE	84	29.550	52.444	27.991
ATOM	1313	2HG2	ILE	84	30.069	52.868	29.626
ATOM	1314	3HG2	ILE	84	28.493	52.161	29.414
ATOM	1315	CG1	ILE	84	30.786	50.613	30.597
ATOM	1316	ZHG1	ILE	84	30.042	50.923	31.331
ATOM	1317	3HG1	ILE	84	31.034	49.572	30.781
ATOM	1318	CD1	ILE	84	32.080	51.417	30.800
ATOM	1319	1HD1	ILE	84	32.393	51.285	31.828
ATOM	1320	2HD1	ILE	84	32.863	51.049	30.139
ATOM	1321	3HD1	ILE	84	31.929	52.477	30.619
ATOM	1322	C	ILE	84	27.702	49.833	29.073
ATOM	1323	O	ILE	84	27.171	49.640	30.162
ATOM	1324	N	ILE	85	27.003	50.189	27.988
ATOM	1325	H	ILE	85	27.497	50.336	27.117
ATOM	1326	CA	ILE	85	25.538	50.317	28.012
ATOM	1327	HA	ILE	85	25.261	51.020	28.799
ATOM	1328	CB	ILE	85	25.014	50.858	26.665
ATOM	1329	HB	ILE	85	25.362	50.181	25.879
ATOM	1330	CG2	ILE	85	23.469	50.925	26.601
ATOM	1331	1HG2	ILE	85	23.116	50.378	25.726
ATOM	1332	2HG2	ILE	85	23.114	51.952	26.538
ATOM	1333	3HG2	ILE	85	23.002	50.510	27.491
ATOM	1334	CG1	ILE	85	25.567	52.277	26.399
ATOM	1335	ZHG1	ILE	85	25.122	52.964	27.121
ATOM	1336	3HG1	ILE	85	26.644	52.294	26.550
ATOM	1337	CD1	ILE	85	25.284	52.792	24.981
ATOM	1338	1HD1	ILE	85	25.682	52.098	24.241
ATOM	1339	2HD1	ILE	85	24.214	52.915	24.816
ATOM	1340	3HD1	ILE	85	25.762	53.762	24.857
ATOM	1341	C	ILE	85	24.896	48.972	28.374
ATOM	1342	O	ILE	85	23.980	48.953	29.187
ATOM	1343	N	GLY	86	25.427	47.861	27.848
ATOM	1344	H	GLY	86	26.234	47.973	27.251

ATOM	1345	CA	GLY	86	24.976	46.491	28.119
ATOM	1346	ZHA	GLY	86	23.981	46.352	27.705
ATOM	1347	3HA	GLY	86	25.653	45.805	27.613
ATOM	1348	C	GLY	86	24.931	46.075	29.595
ATOM	1349	O	GLY	86	24.302	45.067	29.908
ATOM	1350	N	ASP	87	25.575	46.824	30.490
ATOM	1351	H	ASP	87	26.084	47.636	30.166
ATOM	1352	CA	ASP	87	25.502	46.625	31.938
ATOM	1353	HA	ASP	87	25.328	45.568	32.142
ATOM	1354	CB	ASP	87	26.870	46.994	32.522
ATOM	1355	ZHB	ASP	87	27.655	46.583	31.883
ATOM	1356	3HB	ASP	87	26.981	48.000	32.543
ATOM	1357	CG	ASP	87	27.054	46.400	33.911
ATOM	1358	OD1	ASP	87	26.978	45.151	33.979
ATOM	1359	OD2	ASP	87	27.313	47.186	34.846
ATOM	1360	C	ASP	87	24.340	47.414	32.585
ATOM	1361	O	ASP	87	23.523	46.840	33.303
ATOM	1362	N	ASP	88	24.178	48.690	32.223
ATOM	1363	H	ASP	88	24.847	49.067	31.566
ATOM	1364	CA	ASP	88	23.083	49.587	32.650
ATOM	1365	HA	ASP	88	23.139	49.715	33.732
ATOM	1366	CB	ASP	88	23.348	50.940	31.937
ATOM	1367	ZHB	ASP	88	24.428	51.111	31.944
ATOM	1368	3HB	ASP	88	23.057	50.825	30.892
ATOM	1369	CG	ASP	88	22.692	52.228	32.482
ATOM	1370	OD1	ASP	88	23.364	53.292	32.500
ATOM	1371	OD2	ASP	88	21.454	52.248	32.706
ATOM	1372	C	ASP	88	21.702	48.973	32.297
ATOM	1373	O	ASP	88	20.764	48.950	33.096
ATOM	1374	N	ILE	89	21.619	48.356	31.111
ATOM	1375	H	ILE	89	22.438	48.441	30.520
ATOM	1376	CA	ILE	89	20.448	47.639	30.560
ATOM	1377	HA	ILE	89	19.572	47.963	31.124
ATOM	1378	CB	ILE	89	20.226	48.022	29.082
ATOM	1379	HB	ILE	89	19.354	47.487	28.711
ATOM	1380	CG2	ILE	89	19.890	49.519	28.967
ATOM	1381	1HG2	ILE	89	20.779	50.128	29.141
ATOM	1382	2HG2	ILE	89	19.492	49.730	27.974
ATOM	1383	3HG2	ILE	89	19.135	49.791	29.709
ATOM	1384	CG1	ILE	89	21.457	47.634	28.231
ATOM	1385	ZHG1	ILE	89	21.798	48.508	27.678
ATOM	1386	3HG1	ILE	89	22.259	47.302	28.884
ATOM	1387	CD1	ILE	89	21.255	46.482	27.252
ATOM	1388	1HD1	ILE	89	20.279	46.539	26.787
ATOM	1389	2HD1	ILE	89	22.023	46.553	26.484
ATOM	1390	3HD1	ILE	89	21.348	45.527	27.764
ATOM	1391	C	ILE	89	20.489	46.107	30.715
ATOM	1392	O	ILE	89	19.726	45.397	30.053
ATOM	1393	N	ASN	90	21.348	45.567	31.586
ATOM	1394	H	ASN	90	22.001	46.185	32.065
ATOM	1395	CA	ASN	90	21.393	44.129	31.898
ATOM	1396	HA	ASN	90	21.742	43.581	31.022
ATOM	1397	CB	ASN	90	22.384	43.948	33.058
ATOM	1398	ZHB	ASN	90	23.381	44.228	32.720
ATOM	1399	3HB	ASN	90	22.111	44.610	33.879
ATOM	1400	CG	ASN	90	22.409	42.536	33.612
ATOM	1401	OD1	ASN	90	21.564	42.136	34.397
ATOM	1402	ND2	ASN	90	23.393	41.755	33.241
ATOM	1403	1HD2	ASN	90	23.380	40.813	33.588
ATOM	1404	2HD2	ASN	90	24.137	42.135	32.700
ATOM	1405	C	ASN	90	20.010	43.563	32.284
ATOM	1406	O	ASN	90	19.668	42.419	31.993
ATOM	1407	N	ARG	91	19.174	44.383	32.926
ATOM	1408	H	ARG	91	19.489	45.328	33.100
ATOM	1409	CA	ARG	91	17.797	44.008	33.247
ATOM	1410	HA	ARG	91	17.791	42.955	33.536
ATOM	1411	CB	ARG	91	17.284	44.854	34.411
ATOM	1412	ZHB	ARG	91	17.605	45.892	34.283
ATOM	1413	3HB	ARG	91	16.193	44.819	34.463
ATOM	1414	CG	ARG	91	17.861	44.259	35.683
ATOM	1415	ZHG	ARG	91	17.434	43.269	35.852
ATOM	1416	3HG	ARG	91	18.944	44.160	35.568
ATOM	1417	CD	ARG	91	17.559	45.124	36.901
ATOM	1418	ZHD	ARG	91	17.578	46.186	36.631
ATOM	1419	3HD	ARG	91	16.572	44.859	37.284
ATOM	1420	NE	ARG	91	18.606	44.852	37.881
ATOM	1421	HE	ARG	91	19.476	44.523	37.494
ATOM	1422	CZ	ARG	91	18.553	45.048	39.171
ATOM	1423	NH1	ARG	91	17.513	45.523	39.782
ATOM	1424	1HH1	ARG	91	16.719	45.839	39.233
ATOM	1425	2HH1	ARG	91	17.559	45.722	40.767
ATOM	1426	NH2	ARG	91	19.587	44.760	39.910
ATOM	1427	1HH2	ARG	91	20.426	44.461	39.467
ATOM	1428	2HH2	ARG	91	19.560	44.984	40.875
ATOM	1429	C	ARG	91	16.863	44.158	32.069
ATOM	1430	O	ARG	91	16.780	45.231	31.482
ATOM	1431	N	ARG	92	16.028	43.133	31.873
ATOM	1432	H	ARG	92	16.322	42.234	32.236
ATOM	1433	CA	ARG	92	14.756	43.175	31.126
ATOM	1434	HA	ARG	92	14.245	42.224	31.276
ATOM	1435	CB	ARG	92	13.887	44.313	31.692
ATOM	1436	ZHB	ARG	92	14.260	44.635	32.666
ATOM	1437	3HB	ARG	92	13.958	45.169	31.016
ATOM	1438	CG	ARG	92	12.424	43.916	31.887
ATOM	1439	ZHG	ARG	92	12.091	43.264	31.076
ATOM	1440	3HG	ARG	92	12.337	43.372	32.829
ATOM	1441	CD	ARG	92	11.547	45.174	31.948
ATOM	1442	ZHD	ARG	92	10.807	45.046	32.737
ATOM	1443	3HD	ARG	92	12.165	46.045	32.189
ATOM	1444	NE	ARG	92	10.849	45.377	30.670
ATOM	1445	HE	ARG	92	11.059	44.702	29.943
ATOM	1446	CZ	ARG	92	9.989	46.340	30.378
ATOM	1447	NH1	ARG	92	9.680	47.292	31.207
ATOM	1448	1HH1	ARG	92	10.166	47.385	32.071
ATOM	1449	2HH1	ARG	92	9.084	48.026	30.855

ATOM	1450	NH2	ARG	92	9.391	46.376	29.229
ATOM	1451	1HH2	ARG	92	9.631	45.681	28.551
ATOM	1452	2HH2	ARG	92	9.117	47.304	28.883
ATOM	1453	C	ARG	92	14.886	43.309	29.611
ATOM	1454	O	ARG	92	13.987	42.887	28.902
ATOM	1455	N	TYR	93	15.981	43.886	29.140
ATOM	1456	H	TYR	93	16.555	44.392	29.801
ATOM	1457	CA	TYR	93	16.354	43.956	27.739
ATOM	1458	HA	TYR	93	15.465	43.844	27.115
ATOM	1459	CB	TYR	93	16.959	45.343	27.490
ATOM	1460	2HB	TYR	93	17.914	45.410	28.013
ATOM	1461	3HB	TYR	93	17.151	45.456	26.423
ATOM	1462	CG	TYR	93	16.064	46.483	27.956
ATOM	1463	CD1	TYR	93	14.819	46.687	27.338
ATOM	1464	HD1	TYR	93	14.511	46.035	26.543
ATOM	1465	CE1	TYR	93	13.966	47.720	27.766
ATOM	1466	HE1	TYR	93	13.016	47.889	27.283
ATOM	1467	CZ	TYR	93	14.362	48.560	28.823
ATOM	1468	OH	TYR	93	13.534	49.555	29.229
ATOM	1469	HH	TYR	93	13.953	50.150	29.848
ATOM	1470	CE2	TYR	93	15.604	48.350	29.464
ATOM	1471	HE2	TYR	93	15.911	48.983	30.282
ATOM	1472	CD2	TYR	93	16.442	47.300	29.040
ATOM	1473	HD2	TYR	93	17.369	47.110	29.562
ATOM	1474	C	TYR	93	17.301	42.805	27.395
ATOM	1475	O	TYR	93	17.038	42.048	26.468
ATOM	1476	N	ASP	94	18.348	42.595	28.201
ATOM	1477	H	ASP	94	18.557	43.258	28.935
ATOM	1478	CA	ASP	94	19.292	41.495	27.982
ATOM	1479	HA	ASP	94	19.499	41.444	26.920
ATOM	1480	CB	ASP	94	20.607	41.827	28.677
ATOM	1481	2HB	ASP	94	20.980	42.784	28.312
ATOM	1482	3HB	ASP	94	20.426	41.917	29.743
ATOM	1483	CG	ASP	94	21.664	40.755	28.445
ATOM	1484	OD1	ASP	94	22.195	40.626	27.320
ATOM	1485	OD2	ASP	94	22.030	40.078	29.424
ATOM	1486	C	ASP	94	18.741	40.114	28.382
ATOM	1487	O	ASP	94	18.973	39.136	27.671
ATOM	1488	N	SER	95	17.922	40.028	29.440
ATOM	1489	H	SER	95	17.755	40.837	30.017
ATOM	1490	CA	SER	95	17.196	38.787	29.754
ATOM	1491	HA	SER	95	17.930	37.985	29.822
ATOM	1492	CB	SER	95	16.481	38.845	31.115
ATOM	1493	2HB	SER	95	15.596	38.206	31.075
ATOM	1494	3HB	SER	95	17.151	38.432	31.869
ATOM	1495	OG	SER	95	16.082	40.143	31.536
ATOM	1496	HG	SER	95	15.271	40.004	32.040
ATOM	1497	C	SER	95	16.226	38.349	28.650
ATOM	1498	O	SER	95	16.035	37.150	28.482
ATOM	1499	N	GLU	96	15.683	39.270	27.850
ATOM	1500	H	GLU	96	15.912	40.243	27.988
ATOM	1501	CA	GLU	96	14.721	38.937	26.790
ATOM	1502	HA	GLU	96	14.018	38.218	27.208
ATOM	1503	CB	GLU	96	13.968	40.217	26.384
ATOM	1504	2HB	GLU	96	14.007	40.936	27.200
ATOM	1505	3HB	GLU	96	14.474	40.668	25.530
ATOM	1506	CG	GLU	96	12.492	39.984	26.032
ATOM	1507	ZHG	GLU	96	12.064	40.943	25.728
ATOM	1508	3HG	GLU	96	12.428	39.305	25.179
ATOM	1509	CD	GLU	96	11.702	39.415	27.222
ATOM	1510	OE1	GLU	96	11.646	38.163	27.324
ATOM	1511	OE2	GLU	96	11.204	40.230	28.034
ATOM	1512	C	GLU	96	15.377	38.256	25.574
ATOM	1513	O	GLU	96	14.757	37.445	24.881
ATOM	1514	N	PHE	97	16.673	38.504	25.347
ATOM	1515	H	PHE	97	17.145	39.183	25.931
ATOM	1516	CA	PHE	97	17.446	37.776	24.336
ATOM	1517	HA	PHE	97	16.911	37.844	23.390
ATOM	1518	CB	PHE	97	18.836	38.408	24.159
ATOM	1519	2HB	PHE	97	19.378	38.283	25.097
ATOM	1520	3HB	PHE	97	19.373	37.847	23.393
ATOM	1521	CG	PHE	97	18.876	39.876	23.763
ATOM	1522	CD1	PHE	97	18.116	40.359	22.680
ATOM	1523	HD1	PHE	97	17.496	39.687	22.110
ATOM	1524	CE1	PHE	97	18.158	41.722	22.337
ATOM	1525	HE1	PHE	97	17.571	42.088	21.507
ATOM	1526	CZ	PHE	97	18.952	42.612	23.078
ATOM	1527	HZ	PHE	97	18.960	43.663	22.830
ATOM	1528	CE2	PHE	97	19.735	42.131	24.141
ATOM	1529	HE2	PHE	97	20.346	42.811	24.717
ATOM	1530	CD2	PHE	97	19.712	40.763	24.466
ATOM	1531	HD2	PHE	97	20.326	40.393	25.274
ATOM	1532	C	PHE	97	17.578	36.277	24.668
ATOM	1533	O	PHE	97	17.749	35.467	23.753
ATOM	1534	N	GLN	98	17.461	35.876	25.941
ATOM	1535	H	GLN	98	17.266	36.568	26.657
ATOM	1536	CA	GLN	98	17.433	34.457	26.315
ATOM	1537	HA	GLN	98	18.225	33.953	25.769
ATOM	1538	CB	GLN	98	17.746	34.258	27.804
ATOM	1539	2HB	GLN	98	17.040	34.814	28.421
ATOM	1540	3HB	GLN	98	17.611	33.196	28.020
ATOM	1541	CG	GLN	98	19.188	34.664	28.157
ATOM	1542	ZHG	GLN	98	19.853	34.431	27.327
ATOM	1543	3HG	GLN	98	19.223	35.738	28.339
ATOM	1544	CD	GLN	98	19.710	33.900	29.362
ATOM	1545	OE1	GLN	98	19.758	32.683	29.390
ATOM	1546	NE2	GLN	98	20.183	34.571	30.393
ATOM	1547	1HE2	GLN	98	20.549	34.024	31.143
ATOM	1548	2HE2	GLN	98	20.233	35.577	30.363
ATOM	1549	C	GLN	98	16.108	33.781	25.913
ATOM	1550	O	GLN	98	16.120	32.647	25.425
ATOM	1551	N	THR	99	14.981	34.493	26.008
ATOM	1552	H	THR	99	14.999	35.398	26.469
ATOM	1553	CA	THR	99	13.656	34.036	25.540
ATOM	1554	HA	THR	99	13.449	33.074	26.006

ATOM	1555	CB	THR	99	12.555	35.044	25.947
ATOM	1556	HB	THR	99	12.448	35.779	25.150
ATOM	1557	CG2	THR	99	11.216	34.341	26.179
ATOM	1558	1HG2	THR	99	10.413	35.023	25.907
ATOM	1559	2HG2	THR	99	11.139	33.441	25.569
ATOM	1560	3HG2	THR	99	11.112	34.066	27.229
ATOM	1561	OG1	THR	99	12.886	35.727	27.141
ATOM	1562	1HG	THR	99	12.339	36.548	27.193
ATOM	1563	C	THR	99	13.608	33.828	24.014
ATOM	1564	O	THR	99	12.875	32.980	23.502
ATOM	1565	N	MET	100	14.444	34.556	23.265
ATOM	1566	H	MET	100	14.952	35.298	23.734
ATOM	1567	CA	MET	100	14.681	34.333	21.828
ATOM	1568	HA	MET	100	13.730	34.138	21.331
ATOM	1569	CB	MET	100	15.305	35.598	21.206
ATOM	1570	2HB	MET	100	16.273	35.789	21.664
ATOM	1571	3HB	MET	100	15.454	35.439	20.138
ATOM	1572	CG	MET	100	14.419	36.833	21.398
ATOM	1573	2HG	MET	100	13.597	36.776	20.692
ATOM	1574	3HG	MET	100	14.010	36.832	22.408
ATOM	1575	SD	MET	100	15.227	38.428	21.158
ATOM	1576	CE	MET	100	13.924	39.466	21.873
ATOM	1577	1HE	MET	100	14.294	40.483	21.998
ATOM	1578	2HE	MET	100	13.057	39.468	21.213
ATOM	1579	3HE	MET	100	13.629	39.073	22.848
ATOM	1580	C	MET	100	15.576	33.107	21.593
ATOM	1581	O	MET	100	15.272	32.246	20.768
ATOM	1582	N	LEU	101	16.665	32.993	22.358
ATOM	1583	H	LEU	101	16.845	33.733	23.030
ATOM	1584	CA	LEU	101	17.688	31.954	22.220
ATOM	1585	HA	LEU	101	18.088	31.999	21.209
ATOM	1586	CB	LEU	101	18.792	32.249	23.237
ATOM	1587	2HB	LEU	101	18.359	32.783	24.072
ATOM	1588	3HB	LEU	101	19.188	31.313	23.643
ATOM	1589	CG	LEU	101	19.950	33.091	22.643
ATOM	1590	HG	LEU	101	19.539	33.999	22.175
ATOM	1591	CD1	LEU	101	20.923	33.473	23.761
ATOM	1592	1HD1	LEU	101	21.902	33.752	23.365
ATOM	1593	2HD1	LEU	101	20.521	34.325	24.298
ATOM	1594	3HD1	LEU	101	21.058	32.624	24.422
ATOM	1595	CD2	LEU	101	20.824	32.329	21.618
ATOM	1596	1HD2	LEU	101	20.531	32.589	20.603
ATOM	1597	2HD2	LEU	101	20.728	31.262	21.798
ATOM	1598	3HD2	LEU	101	21.872	32.599	21.692
ATOM	1599	C	LEU	101	17.190	30.518	22.412
ATOM	1600	O	LEU	101	17.777	29.613	21.822
ATOM	1601	N	GLN	102	16.121	30.274	23.177
ATOM	1602	H	GLN	102	15.710	31.031	23.712
ATOM	1603	CA	GLN	102	15.625	28.903	23.364
ATOM	1604	HA	GLN	102	16.508	28.261	23.385
ATOM	1605	CB	GLN	102	14.978	28.721	24.744
ATOM	1606	2HB	GLN	102	15.228	27.705	25.041
ATOM	1607	3HB	GLN	102	15.476	29.377	25.456
ATOM	1608	CG	GLN	102	13.441	28.832	24.856
ATOM	1609	2HG	GLN	102	12.977	28.893	23.873
ATOM	1610	3HG	GLN	102	13.096	27.909	25.314
ATOM	1611	CD	GLN	102	12.895	29.966	25.703
ATOM	1612	OE1	GLN	102	11.978	30.668	25.320
ATOM	1613	NE2	GLN	102	13.353	30.124	26.934
ATOM	1614	1HE2	GLN	102	12.964	30.872	27.464
ATOM	1615	2HE2	GLN	102	14.029	29.475	27.303
ATOM	1616	C	GLN	102	14.801	28.341	22.197
ATOM	1617	O	GLN	102	14.411	27.177	22.230
ATOM	1618	N	HIP	103	14.553	29.142	21.154
ATOM	1619	H	HIP	103	14.866	30.106	21.204
ATOM	1620	CA	HIP	103	13.987	28.654	19.887
ATOM	1621	HA	HIP	103	13.448	27.726	20.080
ATOM	1622	CB	HIP	103	12.990	29.672	19.322
ATOM	1623	2HB	HIP	103	13.515	30.602	19.095
ATOM	1624	3HB	HIP	103	12.569	29.282	18.392
ATOM	1625	CG	HIP	103	11.874	29.948	20.289
ATOM	1626	ND1	HIP	103	10.946	29.026	20.737
ATOM	1627	HD1	HIP	103	10.845	28.080	20.379
ATOM	1628	CE1	HIP	103	10.264	29.595	21.753
ATOM	1629	HE1	HIP	103	9.502	29.106	22.353
ATOM	1630	NE2	HIP	103	10.727	30.853	21.941
ATOM	1631	HE2	HIP	103	10.481	31.486	22.703
ATOM	1632	CD2	HIP	103	11.730	31.090	21.022
ATOM	1633	HD2	HIP	103	12.354	31.976	20.950
ATOM	1634	C	HIP	103	15.043	28.278	18.848
ATOM	1635	O	HIP	103	14.686	27.785	17.783
ATOM	1636	N	LEU	104	16.330	28.486	19.138
ATOM	1637	H	LEU	104	16.584	28.857	20.040
ATOM	1638	CA	LEU	104	17.404	28.103	18.230
ATOM	1639	HA	LEU	104	17.063	28.262	17.206
ATOM	1640	CB	LEU	104	18.637	28.955	18.512
ATOM	1641	2HB	LEU	104	18.668	29.179	19.571
ATOM	1642	3HB	LEU	104	19.536	28.379	18.282
ATOM	1643	CG	LEU	104	18.625	30.251	17.699
ATOM	1644	HG	LEU	104	17.662	30.747	17.824
ATOM	1645	CD1	LEU	104	18.872	30.007	16.216
ATOM	1646	1HD1	LEU	104	18.001	29.550	15.749
ATOM	1647	2HD1	LEU	104	19.739	29.354	16.076
ATOM	1648	3HD1	LEU	104	19.045	30.965	15.726
ATOM	1649	CD2	LEU	104	19.723	31.187	18.187
ATOM	1650	1HD2	LEU	104	19.865	31.982	17.459
ATOM	1651	2HD2	LEU	104	19.385	31.627	19.113
ATOM	1652	3HD2	LEU	104	20.657	30.649	18.325
ATOM	1653	C	LEU	104	17.804	26.643	18.351
ATOM	1654	O	LEU	104	17.951	26.114	19.454
ATOM	1655	N	GLN	105	18.113	26.050	17.202
ATOM	1656	H	GLN	105	18.021	26.571	16.334
ATOM	1657	CA	GLN	105	18.673	24.709	17.139
ATOM	1658	HA	GLN	105	18.176	24.113	17.903
ATOM	1659	CB	GLN	105	18.323	24.086	15.780

ATOM	1660	ZHB	GLN	105	18.784	24.665	14.985
ATOM	1661	3HB	GLN	105	18.749	23.088	15.734
ATOM	1662	CG	GLN	105	16.790	24.040	15.563
ATOM	1663	ZHG	GLN	105	16.262	24.336	16.471
ATOM	1664	3HG	GLN	105	16.518	24.762	14.797
ATOM	1665	CD	GLN	105	16.232	22.685	15.151
ATOM	1666	OE1	GLN	105	16.876	21.650	15.202
ATOM	1667	NE2	GLN	105	14.976	22.649	14.770
ATOM	1668	1HE2	GLN	105	14.614	21.759	14.483
ATOM	1669	2HE2	GLN	105	14.441	23.499	14.704
ATOM	1670	C	GLN	105	20.185	24.718	17.459
ATOM	1671	O	GLN	105	20.817	25.779	17.482
ATOM	1672	N	PRO	106	20.807	23.556	17.752
ATOM	1673	CD	PRO	106	20.157	22.277	17.994
ATOM	1674	ZHD	PRO	106	19.964	21.768	17.049
ATOM	1675	3HD	PRO	106	19.225	22.406	18.545
ATOM	1676	CG	PRO	106	21.118	21.448	18.841
ATOM	1677	ZHG	PRO	106	21.181	20.429	18.454
ATOM	1678	3HG	PRO	106	20.779	21.435	19.877
ATOM	1679	CB	PRO	106	22.476	22.146	18.756
ATOM	1680	ZHB	PRO	106	22.878	22.310	19.755
ATOM	1681	3HB	PRO	106	23.169	21.533	18.176
ATOM	1682	CA	PRO	106	22.235	23.496	18.072
ATOM	1683	HA	PRO	106	22.460	24.293	18.781
ATOM	1684	C	PRO	106	23.183	23.686	16.877
ATOM	1685	O	PRO	106	24.395	23.746	17.096
ATOM	1686	N	THR	107	22.667	23.744	15.646
ATOM	1687	H	THR	107	21.664	23.727	15.530
ATOM	1688	CA	THR	107	23.455	23.920	14.421
ATOM	1689	HA	THR	107	24.450	23.515	14.599
ATOM	1690	CB	THR	107	22.862	23.137	13.237
ATOM	1691	HB	THR	107	23.454	23.354	12.349
ATOM	1692	CG2	THR	107	22.866	21.628	13.479
ATOM	1693	1HG2	THR	107	23.769	21.330	14.013
ATOM	1694	2HG2	THR	107	21.991	21.329	14.058
ATOM	1695	3HG2	THR	107	22.848	21.119	12.514
ATOM	1696	OG1	THR	107	21.526	23.508	13.008
ATOM	1697	1HG	THR	107	21.232	23.038	12.218
ATOM	1698	C	THR	107	23.637	25.393	14.049
ATOM	1699	O	THR	107	22.735	26.218	14.181
ATOM	1700	N	ALA	108	24.830	25.724	13.551
ATOM	1701	H	ALA	108	25.531	25.008	13.456
ATOM	1702	CA	ALA	108	25.191	27.088	13.157
ATOM	1703	HA	ALA	108	24.982	27.765	13.985
ATOM	1704	CB	ALA	108	26.692	27.091	12.876
ATOM	1705	1HB	ALA	108	27.248	26.655	13.706
ATOM	1706	ZHB	ALA	108	26.909	26.537	11.959
ATOM	1707	3HB	ALA	108	26.998	28.125	12.746
ATOM	1708	C	ALA	108	24.411	27.590	11.926
ATOM	1709	O	ALA	108	24.106	28.769	11.794
ATOM	1710	N	GLU	109	24.062	26.649	11.058
ATOM	1711	H	GLU	109	24.389	25.717	11.246
ATOM	1712	CA	GLU	109	23.293	26.800	9.827
ATOM	1713	HA	GLU	109	23.794	27.496	9.154
ATOM	1714	CB	GLU	109	23.316	25.378	9.246
ATOM	1715	ZHB	GLU	109	22.581	24.767	9.775
ATOM	1716	3HB	GLU	109	24.302	24.960	9.466
ATOM	1717	CG	GLU	109	23.139	25.209	7.739
ATOM	1718	ZHG	GLU	109	22.125	25.491	7.452
ATOM	1719	3HG	GLU	109	23.847	25.878	7.242
ATOM	1720	CD	GLU	109	23.440	23.752	7.326
ATOM	1721	OE1	GLU	109	23.604	23.524	6.108
ATOM	1722	OE2	GLU	109	23.549	22.884	8.227
ATOM	1723	C	GLU	109	21.869	27.318	10.104
ATOM	1724	O	GLU	109	21.425	28.300	9.513
ATOM	1725	N	ASN	110	21.198	26.730	11.101
ATOM	1726	H	ASN	110	21.639	25.962	11.584
ATOM	1727	CA	ASN	110	19.884	27.166	11.567
ATOM	1728	HA	ASN	110	19.219	27.270	10.706
ATOM	1729	CB	ASN	110	19.353	26.080	12.507
ATOM	1730	ZHB	ASN	110	19.365	25.116	11.999
ATOM	1731	3HB	ASN	110	19.998	26.016	13.385
ATOM	1732	CG	ASN	110	17.942	26.376	12.971
ATOM	1733	OD1	ASN	110	17.713	26.903	14.049
ATOM	1734	ND2	ASN	110	16.955	26.019	12.183
ATOM	1735	1HD2	ASN	110	16.029	26.267	12.474
ATOM	1736	2HD2	ASN	110	17.139	25.633	11.271
ATOM	1737	C	ASN	110	19.939	28.525	12.284
ATOM	1738	O	ASN	110	18.999	29.315	12.183
ATOM	1739	N	ALA	111	21.048	28.818	12.970
ATOM	1740	H	ALA	111	21.785	28.126	13.010
ATOM	1741	CA	ALA	111	21.257	30.100	13.633
ATOM	1742	HA	ALA	111	20.419	30.267	14.289
ATOM	1743	CB	ALA	111	22.523	30.031	14.496
ATOM	1744	1HB	ALA	111	22.274	29.626	15.477
ATOM	1745	ZHB	ALA	111	23.273	29.396	14.035
ATOM	1746	3HB	ALA	111	22.947	31.025	14.607
ATOM	1747	C	ALA	111	21.226	31.289	12.664
ATOM	1748	O	ALA	111	20.626	32.316	12.994
ATOM	1749	N	TYR	112	21.768	31.128	11.455
ATOM	1750	H	TYR	112	22.286	30.277	11.267
ATOM	1751	CA	TYR	112	21.617	32.105	10.377
ATOM	1752	HA	TYR	112	21.902	33.088	10.749
ATOM	1753	CB	TYR	112	22.547	31.726	9.217
ATOM	1754	ZHB	TYR	112	22.231	30.757	8.830
ATOM	1755	3HB	TYR	112	22.403	32.450	8.416
ATOM	1756	CG	TYR	112	24.039	31.665	9.509
ATOM	1757	CD1	TYR	112	24.649	32.526	10.446
ATOM	1758	HD1	TYR	112	24.053	33.220	11.019
ATOM	1759	CE1	TYR	112	26.047	32.520	10.608
ATOM	1760	HE1	TYR	112	26.517	33.195	11.303
ATOM	1761	CZ	TYR	112	26.843	31.655	9.830
ATOM	1762	OH	TYR	112	28.197	31.699	9.943
ATOM	1763	HH	TYR	112	28.614	31.051	9.369
ATOM	1764	CE2	TYR	112	26.234	30.766	8.918

ATOM	1765	HE2	TYR	112	26.833	30.095	8.323
ATOM	1766	CD2	TYR	112	24.835	30.777	8.760
ATOM	1767	HD2	TYR	112	24.365	30.119	8.041
ATOM	1768	C	TYR	112	20.165	32.229	9.882
ATOM	1769	O	TYR	112	19.664	33.348	9.746
ATOM	1770	N	GLU	113	19.458	31.118	9.641
ATOM	1771	H	GLU	113	19.910	30.216	9.755
ATOM	1772	CA	GLU	113	18.071	31.159	9.146
ATOM	1773	HA	GLU	113	18.055	31.749	8.230
ATOM	1774	CB	GLU	113	17.582	29.739	8.813
ATOM	1775	ZHB	GLU	113	18.363	29.194	8.285
ATOM	1776	ZHB	GLU	113	17.353	29.212	9.740
ATOM	1777	CG	GLU	113	16.338	29.786	7.912
ATOM	1778	ZHG	GLU	113	15.678	30.587	8.246
ATOM	1779	ZHG	GLU	113	16.639	30.016	6.889
ATOM	1780	CD	GLU	113	15.537	28.481	7.938
ATOM	1781	OE1	GLU	113	16.136	27.392	7.986
ATOM	1782	OE2	GLU	113	14.286	28.583	7.970
ATOM	1783	C	GLU	113	17.121	31.843	10.148
ATOM	1784	O	GLU	113	16.317	32.701	9.772
ATOM	1785	N	TYR	114	17.243	31.517	11.438
ATOM	1786	H	TYR	114	17.911	30.791	11.690
ATOM	1787	CA	TYR	114	16.414	32.102	12.492
ATOM	1788	HA	TYR	114	15.369	32.013	12.198
ATOM	1789	CB	TYR	114	16.621	31.308	13.783
ATOM	1790	ZHB	TYR	114	16.490	30.244	13.576
ATOM	1791	ZHB	TYR	114	17.645	31.460	14.114
ATOM	1792	CG	TYR	114	15.660	31.700	14.886
ATOM	1793	CD1	TYR	114	14.320	31.277	14.810
ATOM	1794	HD1	TYR	114	14.000	30.638	13.999
ATOM	1795	CE1	TYR	114	13.392	31.699	15.776
ATOM	1796	HE1	TYR	114	12.362	31.385	15.703
ATOM	1797	CZ	TYR	114	13.809	32.527	16.839
ATOM	1798	OH	TYR	114	12.900	32.965	17.744
ATOM	1799	HH	TYR	114	12.010	32.890	17.353
ATOM	1800	CE2	TYR	114	15.162	32.913	16.945
ATOM	1801	HE2	TYR	114	15.467	33.546	17.764
ATOM	1802	CD2	TYR	114	16.084	32.511	15.958
ATOM	1803	HD2	TYR	114	17.113	32.837	16.012
ATOM	1804	C	TYR	114	16.708	33.596	12.697
ATOM	1805	O	TYR	114	15.777	34.399	12.774
ATOM	1806	N	PHE	115	17.988	33.993	12.711
ATOM	1807	H	PHE	115	18.719	33.291	12.637
ATOM	1808	CA	PHE	115	18.391	35.402	12.793
ATOM	1809	HA	PHE	115	18.002	35.828	13.718
ATOM	1810	CB	PHE	115	19.925	35.481	12.818
ATOM	1811	ZHB	PHE	115	20.281	34.872	13.649
ATOM	1812	ZHB	PHE	115	20.319	35.034	11.903
ATOM	1813	CG	PHE	115	20.513	36.878	12.964
ATOM	1814	CD1	PHE	115	20.928	37.340	14.228
ATOM	1815	HD1	PHE	115	20.798	36.715	15.097
ATOM	1816	CE1	PHE	115	21.536	38.601	14.364
ATOM	1817	HE1	PHE	115	21.858	38.945	15.338
ATOM	1818	CZ	PHE	115	21.739	39.406	13.231
ATOM	1819	HZ	PHE	115	22.216	40.371	13.331
ATOM	1820	CE2	PHE	115	21.314	38.959	11.968
ATOM	1821	HE2	PHE	115	21.468	39.577	11.093
ATOM	1822	CD2	PHE	115	20.701	37.700	11.835
ATOM	1823	HD2	PHE	115	20.398	37.357	10.855
ATOM	1824	C	PHE	115	17.799	36.214	11.638
ATOM	1825	O	PHE	115	17.162	37.242	11.868
ATOM	1826	N	THR	116	17.914	35.717	10.403
ATOM	1827	H	THR	116	18.430	34.852	10.280
ATOM	1828	CA	THR	116	17.396	36.406	9.210
ATOM	1829	HA	THR	116	17.848	37.396	9.171
ATOM	1830	CB	THR	116	17.778	35.644	7.928
ATOM	1831	HB	THR	116	17.151	34.758	7.844
ATOM	1832	CG2	THR	116	17.650	36.485	6.653
ATOM	1833	1HG2	THR	116	17.438	35.814	5.822
ATOM	1834	ZHG2	THR	116	16.845	37.211	6.737
ATOM	1835	ZHG2	THR	116	18.584	37.012	6.449
ATOM	1836	OG1	THR	116	19.130	35.259	7.952
ATOM	1837	1HG	THR	116	19.244	34.496	8.551
ATOM	1838	C	THR	116	15.872	36.601	9.267
ATOM	1839	O	THR	116	15.365	37.620	8.788
ATOM	1840	N	LYS	117	15.131	35.669	9.888
ATOM	1841	H	LYS	117	15.606	34.867	10.295
ATOM	1842	CA	LYS	117	13.665	35.735	10.054
ATOM	1843	HA	LYS	117	13.204	36.038	9.112
ATOM	1844	CB	LYS	117	13.114	34.353	10.448
ATOM	1845	ZHB	LYS	117	13.812	33.851	11.120
ATOM	1846	ZHB	LYS	117	12.159	34.466	10.969
ATOM	1847	CG	LYS	117	12.882	33.498	9.201
ATOM	1848	ZHG	LYS	117	12.126	33.977	8.575
ATOM	1849	ZHG	LYS	117	13.814	33.428	8.636
ATOM	1850	CD	LYS	117	12.400	32.096	9.580
ATOM	1851	ZHD	LYS	117	13.092	31.661	10.306
ATOM	1852	ZHD	LYS	117	11.398	32.150	10.011
ATOM	1853	CE	LYS	117	12.388	31.253	8.308
ATOM	1854	ZHE	LYS	117	11.667	31.672	7.601
ATOM	1855	ZHE	LYS	117	13.383	31.323	7.860
ATOM	1856	NZ	LYS	117	12.116	29.831	8.597
ATOM	1857	1HZ	LYS	117	12.784	29.482	9.276
ATOM	1858	ZHZ	LYS	117	11.175	29.634	8.888
ATOM	1859	ZHZ	LYS	117	12.401	29.258	7.803
ATOM	1860	C	LYS	117	13.190	36.782	11.060
ATOM	1861	O	LYS	117	12.187	37.424	10.785
ATOM	1862	N	ILE	118	13.894	36.985	12.176
ATOM	1863	H	ILE	118	14.702	36.401	12.357
ATOM	1864	CA	ILE	118	13.462	37.968	13.187
ATOM	1865	HA	ILE	118	12.395	38.149	13.044
ATOM	1866	CB	ILE	118	13.599	37.416	14.621
ATOM	1867	HB	ILE	118	13.184	38.171	15.290
ATOM	1868	CG2	ILE	118	12.754	36.131	14.766
ATOM	1869	1HG2	ILE	118	11.789	36.250	14.275

ATOM	1870	ZHG2	ILE	118	13.275	35.282	14.321
ATOM	1871	3HG2	ILE	118	12.571	35.917	15.817
ATOM	1872	CG1	ILE	118	15.061	37.156	15.038
ATOM	1873	ZHG1	ILE	118	15.442	36.287	14.505
ATOM	1874	3HG1	ILE	118	15.685	38.010	14.774
ATOM	1875	CD1	ILE	118	15.209	36.912	16.543
ATOM	1876	1HD1	ILE	118	16.199	36.516	16.735
ATOM	1877	ZHD1	ILE	118	15.086	37.847	17.086
ATOM	1878	3HD1	ILE	118	14.483	36.186	16.905
ATOM	1879	C	ILE	118	14.106	39.348	13.002
ATOM	1880	O	ILE	118	13.525	40.356	13.399
ATOM	1881	N	ALA	119	15.276	39.419	12.358
ATOM	1882	H	ALA	119	15.746	38.555	12.109
ATOM	1883	CA	ALA	119	15.972	40.673	12.076
ATOM	1884	HA	ALA	119	15.837	41.341	12.929
ATOM	1885	CB	ALA	119	17.468	40.378	11.944
ATOM	1886	1HB	ALA	119	17.651	39.750	11.071
ATOM	1887	ZHB	ALA	119	18.014	41.315	11.827
ATOM	1888	3HB	ALA	119	17.825	39.865	12.839
ATOM	1889	C	ALA	119	15.434	41.423	10.844
ATOM	1890	O	ALA	119	15.709	42.612	10.699
ATOM	1891	N	THR	120	14.661	40.777	9.962
ATOM	1892	H	THR	120	14.446	39.801	10.119
ATOM	1893	CA	THR	120	13.926	41.467	8.882
ATOM	1894	HA	THR	120	14.600	42.166	8.388
ATOM	1895	CB	THR	120	13.376	40.491	7.823
ATOM	1896	HB	THR	120	12.434	40.884	7.439
ATOM	1897	CG2	THR	120	14.329	40.309	6.644
ATOM	1898	1HG2	THR	120	13.835	39.686	5.895
ATOM	1899	ZHG2	THR	120	14.547	41.280	6.200
ATOM	1900	3HG2	THR	120	15.252	39.830	6.970
ATOM	1901	OG1	THR	120	13.148	39.214	8.366
ATOM	1902	1HG	THR	120	13.967	38.692	8.341
ATOM	1903	C	THR	120	12.787	42.318	9.446
ATOM	1904	O	THR	120	12.813	43.540	9.292
ATOM	1905	N	SER	121	11.865	41.705	10.195
ATOM	1906	H	SER	121	11.860	40.691	10.224
ATOM	1907	CA	SER	121	10.697	42.380	10.790
ATOM	1908	HA	SER	121	10.077	42.772	9.983
ATOM	1909	CB	SER	121	9.884	41.356	11.584
ATOM	1910	ZHB	SER	121	10.408	41.143	12.518
ATOM	1911	3HB	SER	121	8.906	41.777	11.819
ATOM	1912	OG	SER	121	9.733	40.146	10.880
ATOM	1913	HG	SER	121	9.280	40.338	10.041
ATOM	1914	C	SER	121	11.042	43.537	11.741
ATOM	1915	O	SER	121	10.205	44.395	12.025
ATOM	1916	N	LEU	122	12.278	43.577	12.250
ATOM	1917	H	LEU	122	12.909	42.833	11.996
ATOM	1918	CA	LEU	122	12.784	44.620	13.143
ATOM	1919	HA	LEU	122	12.115	44.690	14.001
ATOM	1920	CB	LEU	122	14.173	44.153	13.617
ATOM	1921	ZHB	LEU	122	14.059	43.173	14.085
ATOM	1922	3HB	LEU	122	14.812	44.034	12.742
ATOM	1923	CG	LEU	122	14.897	45.087	14.603
ATOM	1924	HG	LEU	122	15.138	46.025	14.105
ATOM	1925	CD1	LEU	122	14.061	45.382	15.843
ATOM	1926	1HD1	LEU	122	13.257	46.063	15.577
ATOM	1927	ZHD1	LEU	122	14.678	45.856	16.606
ATOM	1928	3HD1	LEU	122	13.646	44.457	16.242
ATOM	1929	CD2	LEU	122	16.191	44.425	15.068
ATOM	1930	1HD2	LEU	122	15.971	43.547	15.672
ATOM	1931	ZHD2	LEU	122	16.788	44.133	14.208
ATOM	1932	3HD2	LEU	122	16.759	45.134	15.667
ATOM	1933	C	LEU	122	12.826	46.010	12.481
ATOM	1934	O	LEU	122	12.544	47.008	13.142
ATOM	1935	N	PHE	123	13.134	46.079	11.182
ATOM	1936	H	PHE	123	13.322	45.211	10.692
ATOM	1937	CA	PHE	123	13.323	47.343	10.448
ATOM	1938	HA	PHE	123	13.354	48.161	11.165
ATOM	1939	CB	PHE	123	14.682	47.314	9.740
ATOM	1940	ZHB	PHE	123	14.674	46.527	8.985
ATOM	1941	3HB	PHE	123	14.844	48.266	9.235
ATOM	1942	CG	PHE	123	15.821	47.079	10.708
ATOM	1943	CD1	PHE	123	16.204	48.096	11.601
ATOM	1944	HD1	PHE	123	15.726	49.063	11.545
ATOM	1945	CE1	PHE	123	17.164	47.837	12.594
ATOM	1946	HE1	PHE	123	17.452	48.615	13.287
ATOM	1947	CZ	PHE	123	17.724	46.552	12.708
ATOM	1948	HZ	PHE	123	18.425	46.343	13.504
ATOM	1949	CE2	PHE	123	17.356	45.541	11.800
ATOM	1950	HE2	PHE	123	17.769	44.548	11.884
ATOM	1951	CD2	PHE	123	16.413	45.808	10.795
ATOM	1952	HD2	PHE	123	16.103	45.020	10.124
ATOM	1953	C	PHE	123	12.180	47.683	9.484
ATOM	1954	O	PHE	123	12.146	48.768	8.911
ATOM	1955	N	GLU	124	11.222	46.773	9.327
ATOM	1956	H	GLU	124	11.331	45.896	9.816
ATOM	1957	CA	GLU	124	10.121	46.837	8.358
ATOM	1958	HA	GLU	124	10.527	46.918	7.348
ATOM	1959	CB	GLU	124	9.390	45.499	8.514
ATOM	1960	ZHB	GLU	124	10.142	44.729	8.696
ATOM	1961	3HB	GLU	124	8.748	45.546	9.396
ATOM	1962	CG	GLU	124	8.567	45.039	7.315
ATOM	1963	ZHG	GLU	124	9.187	45.066	6.415
ATOM	1964	3HG	GLU	124	7.715	45.710	7.176
ATOM	1965	CD	GLU	124	8.110	43.604	7.611
ATOM	1966	OE1	GLU	124	8.957	42.688	7.474
ATOM	1967	OE2	GLU	124	6.974	43.444	8.105
ATOM	1968	C	GLU	124	9.173	48.028	8.584
ATOM	1969	O	GLU	124	8.638	48.599	7.642
ATOM	1970	N	SER	125	9.031	48.458	9.842
ATOM	1971	H	SER	125	9.539	47.953	10.549
ATOM	1972	CA	SER	125	8.285	49.663	10.248
ATOM	1973	HA	SER	125	7.609	49.937	9.436
ATOM	1974	CB	SER	125	7.421	49.358	11.475

ATOM	1975	ZHB	SER	125	6.933	50.273	11.814
ATOM	1976	3HB	SER	125	6.648	48.644	11.191
ATOM	1977	OG	SER	125	8.208	48.809	12.526
ATOM	1978	HG	SER	125	8.226	47.855	12.378
ATOM	1979	C	SER	125	9.173	50.893	10.489
ATOM	1980	O	SER	125	8.734	51.854	11.120
ATOM	1981	N	GLY	126	10.432	50.857	10.046
ATOM	1982	H	GLY	126	10.743	50.030	9.547
ATOM	1983	CA	GLY	126	11.407	51.933	10.218
ATOM	1984	ZHA	GLY	126	11.725	52.263	9.229
ATOM	1985	3HA	GLY	126	10.951	52.786	10.720
ATOM	1986	C	GLY	126	12.650	51.525	11.013
ATOM	1987	O	GLY	126	12.699	50.482	11.671
ATOM	1988	N	ILE	127	13.663	52.389	10.963
ATOM	1989	H	ILE	127	13.523	53.253	10.460
ATOM	1990	CA	ILE	127	14.971	52.207	11.599
ATOM	1991	HA	ILE	127	14.934	51.293	12.195
ATOM	1992	CB	ILE	127	16.068	52.002	10.527
ATOM	1993	HB	ILE	127	15.771	51.131	9.941
ATOM	1994	CG2	ILE	127	16.188	53.195	9.557
ATOM	1995	1HG2	ILE	127	15.226	53.417	9.096
ATOM	1996	ZHG2	ILE	127	16.536	54.079	10.090
ATOM	1997	3HG2	ILE	127	16.894	52.963	8.762
ATOM	1998	CG1	ILE	127	17.432	51.690	11.182
ATOM	1999	ZHG1	ILE	127	17.872	52.607	11.578
ATOM	2000	3HG1	ILE	127	17.280	51.003	12.015
ATOM	2001	CD1	ILE	127	18.429	51.033	10.219
ATOM	2002	1HD1	ILE	127	18.005	50.107	9.832
ATOM	2003	ZHD1	ILE	127	18.667	51.698	9.390
ATOM	2004	3HD1	ILE	127	19.349	50.805	10.758
ATOM	2005	C	ILE	127	15.268	53.355	12.567
ATOM	2006	O	ILE	127	15.068	54.527	12.253
ATOM	2007	N	ASN	128	15.759	53.004	13.752
ATOM	2008	H	ASN	128	15.958	52.030	13.926
ATOM	2009	CA	ASN	128	16.247	53.933	14.763
ATOM	2010	HA	ASN	128	16.615	54.829	14.261
ATOM	2011	CB	ASN	128	15.077	54.346	15.683
ATOM	2012	ZHB	ASN	128	15.409	55.147	16.338
ATOM	2013	3HB	ASN	128	14.279	54.752	15.063
ATOM	2014	CG	ASN	128	14.510	53.231	16.555
ATOM	2015	OD1	ASN	128	15.232	52.419	17.104
ATOM	2016	ND2	ASN	128	13.205	53.168	16.701
ATOM	2017	1HD2	ASN	128	12.800	52.454	17.308
ATOM	2018	ZHD2	ASN	128	12.610	53.850	16.273
ATOM	2019	C	ASN	128	17.450	53.302	15.488
ATOM	2020	O	ASN	128	17.734	52.115	15.303
ATOM	2021	N	TRP	129	18.168	54.087	16.294
ATOM	2022	H	TRP	129	17.839	55.019	16.496
ATOM	2023	CA	TRP	129	19.387	53.617	16.959
ATOM	2024	HA	TRP	129	20.078	53.224	16.212
ATOM	2025	CB	TRP	129	20.051	54.797	17.669
ATOM	2026	ZHB	TRP	129	20.325	55.551	16.932
ATOM	2027	3HB	TRP	129	19.327	55.249	18.348
ATOM	2028	CG	TRP	129	21.280	54.460	18.450
ATOM	2029	CD1	TRP	129	21.378	54.539	19.793
ATOM	2030	HD1	TRP	129	20.582	54.851	20.457
ATOM	2031	NE1	TRP	129	22.669	54.253	20.182
ATOM	2032	HE1	TRP	129	22.987	54.362	21.133
ATOM	2033	CE2	TRP	129	23.477	53.982	19.102
ATOM	2034	CZ2	TRP	129	24.844	53.702	18.981
ATOM	2035	HZ2	TRP	129	25.473	53.686	19.856
ATOM	2036	CH2	TRP	129	25.378	53.451	17.708
ATOM	2037	HH2	TRP	129	26.434	53.251	17.597
ATOM	2038	CZ3	TRP	129	24.535	53.445	16.582
ATOM	2039	HZ3	TRP	129	24.949	53.219	15.609
ATOM	2040	CE3	TRP	129	23.163	53.740	16.717
ATOM	2041	HE3	TRP	129	22.528	53.738	15.850
ATOM	2042	CD2	TRP	129	22.603	54.046	17.977
ATOM	2043	C	TRP	129	19.107	52.481	17.947
ATOM	2044	O	TRP	129	19.832	51.490	17.963
ATOM	2045	N	GLY	130	18.018	52.571	18.715
ATOM	2046	H	GLY	130	17.433	53.394	18.640
ATOM	2047	CA	GLY	130	17.654	51.539	19.685
ATOM	2048	ZHA	GLY	130	18.451	51.443	20.423
ATOM	2049	3HA	GLY	130	16.745	51.856	20.187
ATOM	2050	C	GLY	130	17.406	50.159	19.062
ATOM	2051	O	GLY	130	17.863	49.148	19.593
ATOM	2052	N	ARG	131	16.784	50.101	17.876
ATOM	2053	H	ARG	131	16.397	50.969	17.512
ATOM	2054	CA	ARG	131	16.627	48.861	17.091
ATOM	2055	HA	ARG	131	16.221	48.082	17.737
ATOM	2056	CB	ARG	131	15.652	49.098	15.925
ATOM	2057	ZHB	ARG	131	15.994	49.959	15.348
ATOM	2058	3HB	ARG	131	15.666	48.224	15.272
ATOM	2059	CG	ARG	131	14.203	49.330	16.385
ATOM	2060	ZHG	ARG	131	13.822	48.428	16.864
ATOM	2061	3HG	ARG	131	14.163	50.142	17.108
ATOM	2062	CD	ARG	131	13.322	49.682	15.180
ATOM	2063	ZHD	ARG	131	13.759	50.532	14.653
ATOM	2064	3HD	ARG	131	13.298	48.830	14.505
ATOM	2065	NE	ARG	131	11.959	50.039	15.601
ATOM	2066	HE	ARG	131	11.840	50.384	16.556
ATOM	2067	CZ	ARG	131	10.864	50.084	14.870
ATOM	2068	NH1	ARG	131	10.813	49.738	13.617
ATOM	2069	1HH1	ARG	131	11.674	49.528	13.123
ATOM	2070	ZHH1	ARG	131	9.933	49.732	13.126
ATOM	2071	NH2	ARG	131	9.754	50.487	15.405
ATOM	2072	1HH2	ARG	131	9.752	50.673	16.418
ATOM	2073	ZHH2	ARG	131	8.946	50.645	14.840
ATOM	2074	C	ARG	131	17.967	48.320	16.579
ATOM	2075	O	ARG	131	18.149	47.105	16.545
ATOM	2076	N	VAL	132	18.922	49.188	16.228
ATOM	2077	H	VAL	132	18.727	50.177	16.321
ATOM	2078	CA	VAL	132	20.288	48.766	15.855
ATOM	2079	HA	VAL	132	20.207	47.960	15.127

ATOM	2080	CB	VAL	132	21.093	49.911	15.199
ATOM	2081	HB	VAL	132	21.113	50.769	15.866
ATOM	2082	CG1	VAL	132	22.547	49.512	14.900
ATOM	2083	1HG1	VAL	132	23.121	49.508	15.828
ATOM	2084	2HG1	VAL	132	22.587	48.520	14.450
ATOM	2085	3HG1	VAL	132	23.008	50.232	14.224
ATOM	2086	CG2	VAL	132	20.445	50.352	13.880
ATOM	2087	1HG2	VAL	132	19.398	50.605	14.035
ATOM	2088	2HG2	VAL	132	20.955	51.239	13.505
ATOM	2089	3HG2	VAL	132	20.512	49.555	13.140
ATOM	2090	C	VAL	132	21.029	48.172	17.058
ATOM	2091	O	VAL	132	21.641	47.114	16.914
ATOM	2092	N	VAL	133	20.918	48.770	18.250
ATOM	2093	H	VAL	133	20.447	49.667	18.313
ATOM	2094	CA	VAL	133	21.534	48.203	19.462
ATOM	2095	HA	VAL	133	22.561	47.941	19.211
ATOM	2096	CB	VAL	133	21.609	49.217	20.617
ATOM	2097	HB	VAL	133	20.599	49.481	20.935
ATOM	2098	CG1	VAL	133	22.385	48.611	21.795
ATOM	2099	1HG1	VAL	133	21.748	47.906	22.331
ATOM	2100	2HG1	VAL	133	23.272	48.084	21.439
ATOM	2101	3HG1	VAL	133	22.708	49.386	22.485
ATOM	2102	CG2	VAL	133	22.350	50.499	20.213
ATOM	2103	1HG2	VAL	133	23.372	50.265	19.916
ATOM	2104	2HG2	VAL	133	21.849	50.996	19.386
ATOM	2105	3HG2	VAL	133	22.368	51.193	21.053
ATOM	2106	C	VAL	133	20.850	46.901	19.898
ATOM	2107	O	VAL	133	21.543	45.971	20.302
ATOM	2108	N	ALA	134	19.529	46.767	19.745
ATOM	2109	H	ALA	134	18.981	47.582	19.485
ATOM	2110	CA	ALA	134	18.818	45.512	20.023
ATOM	2111	HA	ALA	134	19.043	45.215	21.048
ATOM	2112	CB	ALA	134	17.307	45.759	19.925
ATOM	2113	1HB	ALA	134	17.027	46.591	20.572
ATOM	2114	2HB	ALA	134	17.021	45.983	18.896
ATOM	2115	3HB	ALA	134	16.772	44.868	20.258
ATOM	2116	C	ALA	134	19.275	44.361	19.102
ATOM	2117	O	ALA	134	19.464	43.236	19.566
ATOM	2118	N	LEU	135	19.536	44.642	17.817
ATOM	2119	H	LEU	135	19.353	45.582	17.480
ATOM	2120	CA	LEU	135	20.145	43.673	16.895
ATOM	2121	HA	LEU	135	19.538	42.766	16.909
ATOM	2122	CB	LEU	135	20.149	44.267	15.473
ATOM	2123	2HB	LEU	135	19.141	44.603	15.227
ATOM	2124	3HB	LEU	135	20.802	45.138	15.459
ATOM	2125	CG	LEU	135	20.627	43.280	14.389
ATOM	2126	HG	LEU	135	21.610	42.889	14.647
ATOM	2127	CD1	LEU	135	19.656	42.109	14.220
ATOM	2128	1HD1	LEU	135	18.642	42.475	14.070
ATOM	2129	2HD1	LEU	135	19.951	41.510	13.361
ATOM	2130	3HD1	LEU	135	19.689	41.469	15.101
ATOM	2131	CD2	LEU	135	20.754	44.001	13.048
ATOM	2132	1HD2	LEU	135	21.043	43.292	12.272
ATOM	2133	2HD2	LEU	135	19.810	44.464	12.782
ATOM	2134	3HD2	LEU	135	21.521	44.772	13.121
ATOM	2135	C	LEU	135	21.563	43.273	17.329
ATOM	2136	O	LEU	135	21.917	42.100	17.249
ATOM	2137	N	LEU	136	22.355	44.229	17.813
ATOM	2138	H	LEU	136	22.018	45.185	17.780
ATOM	2139	CA	LEU	136	23.698	43.998	18.338
ATOM	2140	HA	LEU	136	24.259	43.435	17.594
ATOM	2141	CB	LEU	136	24.330	45.375	18.571
ATOM	2142	2HB	LEU	136	23.571	46.144	18.479
ATOM	2143	3HB	LEU	136	24.725	45.451	19.586
ATOM	2144	CG	LEU	136	25.434	45.673	17.541
ATOM	2145	HG	LEU	136	25.238	45.142	16.602
ATOM	2146	CD1	LEU	136	25.516	47.166	17.242
ATOM	2147	1HD1	LEU	136	24.637	47.451	16.676
ATOM	2148	2HD1	LEU	136	26.401	47.371	16.636
ATOM	2149	3HD1	LEU	136	25.575	47.737	18.167
ATOM	2150	CD2	LEU	136	26.817	45.275	18.057
ATOM	2151	1HD2	LEU	136	27.566	45.546	17.314
ATOM	2152	2HD2	LEU	136	27.034	45.799	18.997
ATOM	2153	3HD2	LEU	136	26.835	44.197	18.216
ATOM	2154	C	LEU	136	23.704	43.150	19.612
ATOM	2155	O	LEU	136	24.493	42.214	19.728
ATOM	2156	N	GLY	137	22.789	43.423	20.542
ATOM	2157	H	GLY	137	22.205	44.239	20.403
ATOM	2158	CA	GLY	137	22.603	42.639	21.766
ATOM	2159	2HA	GLY	137	23.527	42.645	22.345
ATOM	2160	3HA	GLY	137	21.808	43.092	22.361
ATOM	2161	C	GLY	137	22.220	41.184	21.480
ATOM	2162	O	GLY	137	22.862	40.263	21.994
ATOM	2163	N	PHE	138	21.260	40.968	20.574
ATOM	2164	H	PHE	138	20.738	41.759	20.209
ATOM	2165	CA	PHE	138	20.918	39.626	20.101
ATOM	2166	HA	PHE	138	20.708	39.005	20.973
ATOM	2167	CB	PHE	138	19.652	39.694	19.238
ATOM	2168	2HB	PHE	138	18.854	40.165	19.813
ATOM	2169	3HB	PHE	138	19.849	40.324	18.369
ATOM	2170	CG	PHE	138	19.176	38.326	18.782
ATOM	2171	CD1	PHE	138	18.776	37.371	19.738
ATOM	2172	HD1	PHE	138	18.760	37.629	20.787
ATOM	2173	CE1	PHE	138	18.407	36.076	19.334
ATOM	2174	HE1	PHE	138	18.109	35.346	20.072
ATOM	2175	CZ	PHE	138	18.417	35.736	17.971
ATOM	2176	HZ	PHE	138	18.111	34.749	17.656
ATOM	2177	CE2	PHE	138	18.788	36.696	17.013
ATOM	2178	HE2	PHE	138	18.750	36.446	15.964
ATOM	2179	CD2	PHE	138	19.172	37.988	17.416
ATOM	2180	HD2	PHE	138	19.461	38.719	16.674
ATOM	2181	C	PHE	138	22.084	38.966	19.343
ATOM	2182	O	PHE	138	22.358	37.785	19.550
ATOM	2183	N	GLY	139	22.824	39.721	18.523
ATOM	2184	H	GLY	139	22.520	40.674	18.346

ATOM	2185	CA	GLY	139	24.010	39.247	17.802
ATOM	2186	ZHA	GLY	139	23.728	38.422	17.146
ATOM	2187	3HA	GLY	139	24.391	40.063	17.188
ATOM	2188	C	GLY	139	25.144	38.779	18.722
ATOM	2189	O	GLY	139	25.720	37.718	18.487
ATOM	2190	N	TYR	140	25.416	39.498	19.816
ATOM	2191	H	TYR	140	24.911	40.370	19.956
ATOM	2192	CA	TYR	140	26.346	39.055	20.862
ATOM	2193	HA	TYR	140	27.325	38.881	20.413
ATOM	2194	CB	TYR	140	26.489	40.150	21.932
ATOM	2195	ZHB	TYR	140	27.064	40.966	21.501
ATOM	2196	3HB	TYR	140	25.502	40.533	22.193
ATOM	2197	CG	TYR	140	27.196	39.702	23.200
ATOM	2198	CD1	TYR	140	28.545	39.311	23.131
ATOM	2199	HD1	TYR	140	29.060	39.340	22.188
ATOM	2200	CE1	TYR	140	29.217	38.863	24.280
ATOM	2201	HE1	TYR	140	30.252	38.566	24.232
ATOM	2202	CZ	TYR	140	28.535	38.794	25.509
ATOM	2203	OH	TYR	140	29.194	38.327	26.597
ATOM	2204	HH	TYR	140	28.616	38.335	27.406
ATOM	2205	CE2	TYR	140	27.182	39.193	25.587
ATOM	2206	HE2	TYR	140	26.669	39.148	26.536
ATOM	2207	CD2	TYR	140	26.512	39.647	24.431
ATOM	2208	HD2	TYR	140	25.472	39.945	24.493
ATOM	2209	C	TYR	140	25.894	37.738	21.501
ATOM	2210	O	TYR	140	26.684	36.798	21.603
ATOM	2211	N	ARG	141	24.616	37.647	21.886
ATOM	2212	H	ARG	141	24.023	38.464	21.762
ATOM	2213	CA	ARG	141	24.036	36.456	22.525
ATOM	2214	HA	ARG	141	24.692	36.143	23.335
ATOM	2215	CB	ARG	141	22.648	36.825	23.092
ATOM	2216	ZHB	ARG	141	22.048	37.283	22.305
ATOM	2217	3HB	ARG	141	22.134	35.920	23.403
ATOM	2218	CG	ARG	141	22.704	37.790	24.294
ATOM	2219	ZHG	ARG	141	23.291	38.670	24.036
ATOM	2220	3HG	ARG	141	21.695	38.116	24.538
ATOM	2221	CD	ARG	141	23.310	37.138	25.541
ATOM	2222	ZHD	ARG	141	22.691	36.288	25.835
ATOM	2223	3HD	ARG	141	24.308	36.777	25.292
ATOM	2224	NE	ARG	141	23.411	38.078	26.674
ATOM	2225	HE	ARG	141	22.763	38.869	26.736
ATOM	2226	CZ	ARG	141	24.291	38.018	27.653
ATOM	2227	NH1	ARG	141	25.210	37.104	27.746
ATOM	2228	1HH1	ARG	141	25.265	36.355	27.096
ATOM	2229	2HH1	ARG	141	25.868	37.217	28.525
ATOM	2230	NH2	ARG	141	24.296	38.893	28.595
ATOM	2231	1HH2	ARG	141	23.446	39.448	28.726
ATOM	2232	2HH2	ARG	141	24.888	38.686	29.396
ATOM	2233	C	ARG	141	24.015	35.243	21.588
ATOM	2234	O	ARG	141	24.346	34.136	22.017
ATOM	2235	N	LEU	142	23.755	35.450	20.300
ATOM	2236	H	LEU	142	23.428	36.366	20.022
ATOM	2237	CA	LEU	142	23.916	34.448	19.244
ATOM	2238	HA	LEU	142	23.260	33.601	19.448
ATOM	2239	CB	LEU	142	23.474	35.091	17.923
ATOM	2240	ZHB	LEU	142	22.439	35.430	18.022
ATOM	2241	3HB	LEU	142	24.096	35.976	17.734
ATOM	2242	CG	LEU	142	23.600	34.092	16.739
ATOM	2243	HG	LEU	142	24.652	33.765	16.662
ATOM	2244	CD1	LEU	142	22.640	32.889	16.888
ATOM	2245	1HD1	LEU	142	21.806	33.193	17.494
ATOM	2246	2HD1	LEU	142	23.135	32.017	17.297
ATOM	2247	3HD1	LEU	142	22.249	32.588	15.916
ATOM	2248	CD2	LEU	142	23.242	34.821	15.426
ATOM	2249	1HD2	LEU	142	22.766	35.773	15.615
ATOM	2250	2HD2	LEU	142	24.116	35.004	14.810
ATOM	2251	3HD2	LEU	142	22.551	34.253	14.808
ATOM	2252	C	LEU	142	25.364	33.925	19.152
ATOM	2253	O	LEU	142	25.606	32.724	19.278
ATOM	2254	N	ALA	143	26.323	34.840	18.981
ATOM	2255	H	ALA	143	26.033	35.804	18.850
ATOM	2256	CA	ALA	143	27.750	34.551	18.852
ATOM	2257	HA	ALA	143	27.899	33.923	17.977
ATOM	2258	CB	ALA	143	28.486	35.884	18.633
ATOM	2259	1HB	ALA	143	29.495	35.680	18.290
ATOM	2260	ZHB	ALA	143	27.983	36.479	17.869
ATOM	2261	3HB	ALA	143	28.531	36.463	19.556
ATOM	2262	C	ALA	143	28.292	33.781	20.064
ATOM	2263	O	ALA	143	28.969	32.761	19.923
ATOM	2264	N	LEU	144	27.914	34.203	21.272
ATOM	2265	H	LEU	144	27.375	35.063	21.336
ATOM	2266	CA	LEU	144	28.302	33.533	22.506
ATOM	2267	HA	LEU	144	29.383	33.410	22.485
ATOM	2268	CB	LEU	144	27.924	34.463	23.667
ATOM	2269	ZHB	LEU	144	28.228	35.482	23.415
ATOM	2270	3HB	LEU	144	26.837	34.457	23.770
ATOM	2271	CG	LEU	144	28.565	34.096	25.016
ATOM	2272	HG	LEU	144	28.333	33.061	25.263
ATOM	2273	CD1	LEU	144	30.086	34.281	25.025
ATOM	2274	1HD1	LEU	144	30.340	35.311	24.768
ATOM	2275	2HD1	LEU	144	30.474	34.053	26.016
ATOM	2276	3HD1	LEU	144	30.557	33.603	24.315
ATOM	2277	CD2	LEU	144	27.977	35.000	26.100
ATOM	2278	1HD2	LEU	144	28.530	34.883	27.031
ATOM	2279	2HD2	LEU	144	26.938	34.727	26.270
ATOM	2280	3HD2	LEU	144	28.034	36.042	25.785
ATOM	2281	C	LEU	144	27.674	32.131	22.622
ATOM	2282	O	LEU	144	28.309	31.221	23.153
ATOM	2283	N	HIP	145	26.473	31.908	22.071
ATOM	2284	H	HIP	145	25.997	32.686	21.625
ATOM	2285	CA	HIP	145	25.798	30.603	22.113
ATOM	2286	HA	HIP	145	25.878	30.234	23.138
ATOM	2287	CB	HIP	145	24.315	30.792	21.762
ATOM	2288	ZHB	HIP	145	23.900	31.551	22.424
ATOM	2289	3HB	HIP	145	24.237	31.151	20.735

ATOM	2290	CG	HIP	145	23.454	29.560	21.905
ATOM	2291	ND1	HIP	145	23.543	28.617	22.914
ATOM	2292	HD1	HIP	145	24.250	28.609	23.642
ATOM	2293	CE1	HIP	145	22.519	27.750	22.762
ATOM	2294	HE1	HIP	145	22.302	26.908	23.416
ATOM	2295	NE2	HIP	145	21.790	28.119	21.686
ATOM	2296	HE2	HIP	145	20.939	27.665	21.346
ATOM	2297	CD2	HIP	145	22.366	29.253	21.142
ATOM	2298	HD2	HIP	145	21.989	29.836	20.304
ATOM	2299	C	HIP	145	26.454	29.536	21.229
ATOM	2300	O	HIP	145	26.466	28.378	21.647
ATOM	2301	N	VAL	146	27.009	29.889	20.062
ATOM	2302	H	VAL	146	26.901	30.843	19.737
ATOM	2303	CA	VAL	146	27.862	28.959	19.289
ATOM	2304	HA	VAL	146	27.403	27.971	19.336
ATOM	2305	CB	VAL	146	28.027	29.319	17.794
ATOM	2306	HB	VAL	146	28.962	28.868	17.462
ATOM	2307	CG1	VAL	146	26.928	28.709	16.923
ATOM	2308	1HG1	VAL	146	26.021	29.312	16.967
ATOM	2309	2HG1	VAL	146	27.290	28.686	15.893
ATOM	2310	3HG1	VAL	146	26.711	27.687	17.229
ATOM	2311	CG2	VAL	146	28.109	30.814	17.464
ATOM	2312	1HG2	VAL	146	27.311	31.374	17.946
ATOM	2313	2HG2	VAL	146	29.081	31.205	17.762
ATOM	2314	3HG2	VAL	146	28.000	30.948	16.389
ATOM	2315	C	VAL	146	29.241	28.790	19.927
ATOM	2316	O	VAL	146	29.722	27.664	20.045
ATOM	2317	N	TYR	147	29.844	29.873	20.424
ATOM	2318	H	TYR	147	29.436	30.785	20.246
ATOM	2319	CA	TYR	147	31.136	29.843	21.118
ATOM	2320	HA	TYR	147	31.910	29.517	20.418
ATOM	2321	CB	TYR	147	31.441	31.280	21.552
ATOM	2322	ZHB	TYR	147	31.348	31.934	20.684
ATOM	2323	3HB	TYR	147	30.710	31.602	22.290
ATOM	2324	CG	TYR	147	32.813	31.481	22.127
ATOM	2325	CD1	TYR	147	33.025	31.371	23.517
ATOM	2326	HD1	TYR	147	32.208	31.131	24.178
ATOM	2327	CE1	TYR	147	34.318	31.553	24.040
ATOM	2328	HE1	TYR	147	34.517	31.460	25.099
ATOM	2329	CZ	TYR	147	35.382	31.839	23.160
ATOM	2330	OH	TYR	147	36.639	32.004	23.610
ATOM	2331	HH	TYR	147	36.777	31.868	24.574
ATOM	2332	CE2	TYR	147	35.160	31.981	21.778
ATOM	2333	HE2	TYR	147	35.999	32.202	21.133
ATOM	2334	CD2	TYR	147	33.872	31.795	21.258
ATOM	2335	HD2	TYR	147	33.704	31.884	20.194
ATOM	2336	C	TYR	147	31.133	28.858	22.305
ATOM	2337	O	TYR	147	31.907	27.906	22.337
ATOM	2338	N	GLN	148	30.142	28.969	23.201
ATOM	2339	H	GLN	148	29.524	29.769	23.111
ATOM	2340	CA	GLN	148	29.883	28.028	24.308
ATOM	2341	HA	GLN	148	30.785	27.947	24.918
ATOM	2342	CB	GLN	148	28.736	28.584	25.166
ATOM	2343	ZHB	GLN	148	27.899	28.826	24.509
ATOM	2344	3HB	GLN	148	28.400	27.819	25.867
ATOM	2345	CG	GLN	148	29.120	29.814	25.993
ATOM	2346	ZHG	GLN	148	29.880	29.524	26.721
ATOM	2347	3HG	GLN	148	29.542	30.591	25.358
ATOM	2348	CD	GLN	148	27.910	30.389	26.725
ATOM	2349	OE1	GLN	148	26.773	30.343	26.274
ATOM	2350	NE2	GLN	148	28.107	30.952	27.896
ATOM	2351	1HE2	GLN	148	27.290	31.272	28.383
ATOM	2352	2HE2	GLN	148	29.022	30.951	28.308
ATOM	2353	C	GLN	148	29.518	26.594	23.865
ATOM	2354	O	GLN	148	29.218	25.736	24.695
ATOM	2355	N	HIP	149	29.479	26.316	22.561
ATOM	2356	H	HIP	149	29.699	27.062	21.908
ATOM	2357	CA	HIP	149	29.229	24.995	21.986
ATOM	2358	HA	HIP	149	29.021	24.305	22.803
ATOM	2359	CB	HIP	149	27.992	25.080	21.070
ATOM	2360	ZHB	HIP	149	27.520	26.058	21.163
ATOM	2361	3HB	HIP	149	28.297	24.970	20.027
ATOM	2362	CG	HIP	149	26.949	24.051	21.404
ATOM	2363	ND1	HIP	149	26.510	23.732	22.676
ATOM	2364	HD1	HIP	149	26.861	24.151	23.534
ATOM	2365	CE1	HIP	149	25.618	22.726	22.562
ATOM	2366	HE1	HIP	149	25.136	22.215	23.391
ATOM	2367	NE2	HIP	149	25.470	22.424	21.251
ATOM	2368	HE2	HIP	149	24.911	21.669	20.867
ATOM	2369	CD2	HIP	149	26.291	23.256	20.510
ATOM	2370	HD2	HIP	149	26.421	23.266	19.431
ATOM	2371	C	HIP	149	30.468	24.384	21.318
ATOM	2372	O	HIP	149	30.330	23.449	20.537
ATOM	2373	N	GLY	150	31.659	24.910	21.619
ATOM	2374	H	GLY	150	31.694	25.709	22.240
ATOM	2375	CA	GLY	150	32.936	24.445	21.063
ATOM	2376	ZHA	GLY	150	33.746	24.801	21.701
ATOM	2377	3HA	GLY	150	32.954	23.355	21.051
ATOM	2378	C	GLY	150	33.220	24.938	19.642
ATOM	2379	O	GLY	150	34.165	24.481	19.012
ATOM	2380	N	LEU	151	32.409	25.866	19.125
ATOM	2381	H	LEU	151	31.643	26.197	19.691
ATOM	2382	CA	LEU	151	32.573	26.461	17.800
ATOM	2383	HA	LEU	151	33.252	25.845	17.213
ATOM	2384	CB	LEU	151	31.212	26.484	17.096
ATOM	2385	ZHB	LEU	151	30.499	26.994	17.734
ATOM	2386	3HB	LEU	151	31.300	27.052	16.175
ATOM	2387	CG	LEU	151	30.658	25.090	16.738
ATOM	2388	HG	LEU	151	30.537	24.498	17.653
ATOM	2389	CD1	LEU	151	29.298	25.222	16.028
ATOM	2390	1HD1	LEU	151	29.324	24.797	15.025
ATOM	2391	2HD1	LEU	151	28.550	24.679	16.601
ATOM	2392	3HD1	LEU	151	29.014	26.264	15.921
ATOM	2393	CD2	LEU	151	31.562	24.322	15.763
ATOM	2394	1HD2	LEU	151	31.039	23.441	15.388

ATOM	2395	ZHD2	LEU	151	32.469	23.981	16.265
ATOM	2396	3HD2	LEU	151	31.820	24.973	14.922
ATOM	2397	C	LEU	151	33.250	27.828	17.903
ATOM	2398	O	LEU	151	32.729	28.849	17.455
ATOM	2399	N	THR	152	34.425	27.851	18.524
ATOM	2400	H	THR	152	34.818	26.982	18.870
ATOM	2401	CA	THR	152	35.221	29.065	18.757
ATOM	2402	HA	THR	152	34.588	29.820	19.222
ATOM	2403	CB	THR	152	36.384	28.754	19.706
ATOM	2404	HB	THR	152	37.097	29.579	19.682
ATOM	2405	CG2	THR	152	35.893	28.570	21.145
ATOM	2406	1HG2	THR	152	36.222	29.425	21.731
ATOM	2407	2HG2	THR	152	34.805	28.495	21.201
ATOM	2408	3HG2	THR	152	36.326	27.671	21.588
ATOM	2409	OG1	THR	152	37.030	27.576	19.288
ATOM	2410	1HG	THR	152	37.771	27.428	19.931
ATOM	2411	C	THR	152	35.762	29.672	17.463
ATOM	2412	O	THR	152	35.527	30.851	17.197
ATOM	2413	N	GLY	153	36.338	28.849	16.577
ATOM	2414	H	GLY	153	36.569	27.918	16.908
ATOM	2415	CA	GLY	153	36.745	29.243	15.215
ATOM	2416	ZHA	GLY	153	37.509	30.016	15.276
ATOM	2417	3HA	GLY	153	37.169	28.374	14.715
ATOM	2418	C	GLY	153	35.603	29.770	14.332
ATOM	2419	O	GLY	153	35.842	30.393	13.301
ATOM	2420	N	PHE	154	34.350	29.563	14.742
ATOM	2421	H	PHE	154	34.210	29.083	15.620
ATOM	2422	CA	PHE	154	33.152	30.018	14.032
ATOM	2423	HA	PHE	154	33.349	29.971	12.959
ATOM	2424	CB	PHE	154	32.026	29.030	14.366
ATOM	2425	ZHB	PHE	154	32.472	28.073	14.624
ATOM	2426	3HB	PHE	154	31.478	29.390	15.236
ATOM	2427	CG	PHE	154	31.060	28.777	13.237
ATOM	2428	CD1	PHE	154	29.965	29.634	13.048
ATOM	2429	HD1	PHE	154	29.809	30.467	13.715
ATOM	2430	CE1	PHE	154	29.079	29.412	11.985
ATOM	2431	HE1	PHE	154	28.231	30.066	11.850
ATOM	2432	CZ	PHE	154	29.275	28.324	11.116
ATOM	2433	HZ	PHE	154	28.590	28.154	10.296
ATOM	2434	CE2	PHE	154	30.351	27.445	11.324
ATOM	2435	HE2	PHE	154	30.495	26.601	10.663
ATOM	2436	CD2	PHE	154	31.246	27.673	12.384
ATOM	2437	HD2	PHE	154	32.078	26.999	12.535
ATOM	2438	C	PHE	154	32.782	31.482	14.355
ATOM	2439	O	PHE	154	32.002	32.101	13.624
ATOM	2440	N	LEU	155	33.367	32.075	15.404
ATOM	2441	H	LEU	155	34.018	31.536	15.961
ATOM	2442	CA	LEU	155	33.057	33.430	15.854
ATOM	2443	HA	LEU	155	31.999	33.476	16.097
ATOM	2444	CB	LEU	155	33.882	33.633	17.137
ATOM	2445	ZHB	LEU	155	33.707	32.760	17.781
ATOM	2446	3HB	LEU	155	34.954	33.632	16.878
ATOM	2447	CG	LEU	155	33.547	34.884	17.962
ATOM	2448	HG	LEU	155	33.759	35.765	17.350
ATOM	2449	CD1	LEU	155	32.101	34.905	18.405
ATOM	2450	1HD1	LEU	155	31.968	35.791	19.028
ATOM	2451	ZHD1	LEU	155	31.464	35.004	17.541
ATOM	2452	3HD1	LEU	155	31.875	34.029	18.959
ATOM	2453	CD2	LEU	155	34.425	34.934	19.216
ATOM	2454	1HD2	LEU	155	35.334	35.506	19.024
ATOM	2455	ZHD2	LEU	155	34.711	33.917	19.523
ATOM	2456	3HD2	LEU	155	33.899	35.399	20.045
ATOM	2457	C	LEU	155	33.332	34.503	14.785
ATOM	2458	O	LEU	155	32.593	35.486	14.658
ATOM	2459	N	GLY	156	34.344	34.271	13.946
ATOM	2460	H	GLY	156	34.894	33.436	14.095
ATOM	2461	CA	GLY	156	34.636	35.097	12.769
ATOM	2462	ZHA	GLY	156	34.708	36.144	13.077
ATOM	2463	3HA	GLY	156	35.601	34.787	12.361
ATOM	2464	C	GLY	156	33.594	34.989	11.647
ATOM	2465	O	GLY	156	33.349	35.981	10.967
ATOM	2466	N	GLN	157	32.940	33.835	11.481
ATOM	2467	H	GLN	157	33.088	33.081	12.140
ATOM	2468	CA	GLN	157	31.888	33.663	10.474
ATOM	2469	HA	GLN	157	32.184	34.190	9.566
ATOM	2470	CB	GLN	157	31.697	32.191	10.094
ATOM	2471	ZHB	GLN	157	31.392	31.599	10.959
ATOM	2472	3HB	GLN	157	30.891	32.165	9.359
ATOM	2473	CG	GLN	157	32.963	31.577	9.472
ATOM	2474	ZHG	GLN	157	33.513	32.346	8.930
ATOM	2475	3HG	GLN	157	33.606	31.195	10.265
ATOM	2476	CD	GLN	157	32.661	30.445	8.492
ATOM	2477	OE1	GLN	157	31.539	30.020	8.283
ATOM	2478	NE2	GLN	157	33.666	29.928	7.823
ATOM	2479	1HE2	GLN	157	33.421	29.207	7.164
ATOM	2480	ZHE2	GLN	157	34.606	30.236	7.974
ATOM	2481	C	GLN	157	30.567	34.295	10.920
ATOM	2482	O	GLN	157	29.971	35.043	10.153
ATOM	2483	N	VAL	158	30.181	34.130	12.190
ATOM	2484	H	VAL	158	30.686	33.458	12.758
ATOM	2485	CA	VAL	158	29.057	34.880	12.781
ATOM	2486	HA	VAL	158	28.151	34.658	12.216
ATOM	2487	CB	VAL	158	28.848	34.444	14.241
ATOM	2488	HB	VAL	158	29.809	34.514	14.757
ATOM	2489	CG1	VAL	158	27.831	35.300	15.003
ATOM	2490	1HG1	VAL	158	27.751	34.927	16.019
ATOM	2491	ZHG1	VAL	158	28.146	36.343	15.041
ATOM	2492	3HG1	VAL	158	26.857	35.230	14.518
ATOM	2493	CG2	VAL	158	28.361	32.988	14.301
ATOM	2494	1HG2	VAL	158	28.207	32.584	13.299
ATOM	2495	ZHG2	VAL	158	29.100	32.382	14.821
ATOM	2496	3HG2	VAL	158	27.409	32.910	14.828
ATOM	2497	C	VAL	158	29.278	36.391	12.679
ATOM	2498	O	VAL	158	28.361	37.119	12.313
ATOM	2499	N	THR	159	30.499	36.871	12.938

ATOM	2500	H	THR	159	31.199	36.237	13.303
ATOM	2501	CA	THR	159	30.852	38.289	12.745
ATOM	2502	HA	THR	159	30.187	38.906	13.352
ATOM	2503	CB	THR	159	32.299	38.553	13.188
ATOM	2504	HB	THR	159	32.971	37.909	12.623
ATOM	2505	CG2	THR	159	32.732	40.001	12.970
ATOM	2506	1HG2	THR	159	33.692	40.164	13.453
ATOM	2507	2HG2	THR	159	32.849	40.201	11.906
ATOM	2508	3HG2	THR	159	31.992	40.687	13.380
ATOM	2509	OG1	THR	159	32.455	38.259	14.558
ATOM	2510	1HG	THR	159	32.449	37.294	14.665
ATOM	2511	C	THR	159	30.668	38.726	11.287
ATOM	2512	O	THR	159	30.008	39.730	11.025
ATOM	2513	N	ARG	160	31.200	37.951	10.330
ATOM	2514	H	ARG	160	31.748	37.147	10.617
ATOM	2515	CA	ARG	160	31.047	38.200	8.888
ATOM	2516	HA	ARG	160	31.485	39.171	8.654
ATOM	2517	CB	ARG	160	31.791	37.083	8.135
ATOM	2518	ZHB	ARG	160	32.835	37.087	8.452
ATOM	2519	3HB	ARG	160	31.376	36.123	8.429
ATOM	2520	CG	ARG	160	31.714	37.152	6.599
ATOM	2521	ZHG	ARG	160	32.261	36.299	6.196
ATOM	2522	3HG	ARG	160	30.676	37.062	6.280
ATOM	2523	CD	ARG	160	32.303	38.430	5.992
ATOM	2524	ZHD	ARG	160	32.293	38.342	4.905
ATOM	2525	3HD	ARG	160	31.679	39.278	6.282
ATOM	2526	NE	ARG	160	33.689	38.627	6.435
ATOM	2527	HE	ARG	160	34.202	37.805	6.705
ATOM	2528	CZ	ARG	160	34.273	39.785	6.671
ATOM	2529	NH1	ARG	160	35.399	39.802	7.304
ATOM	2530	1HH1	ARG	160	35.806	38.978	7.690
ATOM	2531	2HH1	ARG	160	35.687	40.711	7.696
ATOM	2532	NH2	ARG	160	33.791	40.934	6.300
ATOM	2533	1HH2	ARG	160	32.964	40.987	5.738
ATOM	2534	2HH2	ARG	160	34.293	41.762	6.594
ATOM	2535	C	ARG	160	29.579	38.275	8.464
ATOM	2536	O	ARG	160	29.222	39.151	7.684
ATOM	2537	N	PHE	161	28.751	37.371	8.979
ATOM	2538	H	PHE	161	29.151	36.657	9.578
ATOM	2539	CA	PHE	161	27.324	37.269	8.678
ATOM	2540	HA	PHE	161	27.185	37.247	7.597
ATOM	2541	CB	PHE	161	26.833	35.936	9.259
ATOM	2542	ZHB	PHE	161	27.348	35.119	8.750
ATOM	2543	3HB	PHE	161	27.104	35.882	10.313
ATOM	2544	CG	PHE	161	25.343	35.716	9.138
ATOM	2545	CD1	PHE	161	24.510	35.969	10.243
ATOM	2546	HD1	PHE	161	24.933	36.315	11.175
ATOM	2547	CE1	PHE	161	23.127	35.755	10.139
ATOM	2548	HE1	PHE	161	22.495	35.923	10.995
ATOM	2549	CZ	PHE	161	22.575	35.306	8.927
ATOM	2550	HZ	PHE	161	21.513	35.142	8.848
ATOM	2551	CE2	PHE	161	23.407	35.049	7.824
ATOM	2552	HE2	PHE	161	22.983	34.683	6.900
ATOM	2553	CD2	PHE	161	24.793	35.249	7.930
ATOM	2554	HD2	PHE	161	25.435	35.037	7.087
ATOM	2555	C	PHE	161	26.519	38.469	9.205
ATOM	2556	O	PHE	161	25.720	39.041	8.464
ATOM	2557	N	VAL	162	26.769	38.915	10.442
ATOM	2558	H	VAL	162	27.424	38.401	11.025
ATOM	2559	CA	VAL	162	26.094	40.099	11.011
ATOM	2560	HA	VAL	162	25.015	39.955	10.946
ATOM	2561	CB	VAL	162	26.480	40.282	12.494
ATOM	2562	HB	VAL	162	27.557	40.455	12.541
ATOM	2563	CG1	VAL	162	25.763	41.477	13.130
ATOM	2564	1HG1	VAL	162	26.014	42.402	12.612
ATOM	2565	2HG1	VAL	162	24.685	41.320	13.081
ATOM	2566	3HG1	VAL	162	26.073	41.567	14.170
ATOM	2567	CG2	VAL	162	26.140	39.060	13.368
ATOM	2568	1HG2	VAL	162	25.903	38.188	12.761
ATOM	2569	2HG2	VAL	162	26.999	38.828	13.998
ATOM	2570	3HG2	VAL	162	25.282	39.254	14.011
ATOM	2571	C	VAL	162	26.445	41.361	10.210
ATOM	2572	O	VAL	162	25.572	42.177	9.916
ATOM	2573	N	VAL	163	27.714	41.510	9.818
ATOM	2574	H	VAL	163	28.394	40.823	10.128
ATOM	2575	CA	VAL	163	28.200	42.656	9.029
ATOM	2576	HA	VAL	163	27.862	43.577	9.503
ATOM	2577	CB	VAL	163	29.741	42.662	9.015
ATOM	2578	HB	VAL	163	30.088	41.681	8.689
ATOM	2579	CG1	VAL	163	30.329	43.712	8.065
ATOM	2580	1HG1	VAL	163	29.826	44.671	8.206
ATOM	2581	2HG1	VAL	163	31.393	43.843	8.265
ATOM	2582	3HG1	VAL	163	30.208	43.390	7.032
ATOM	2583	CG2	VAL	163	30.300	42.912	10.424
ATOM	2584	1HG2	VAL	163	31.297	42.486	10.482
ATOM	2585	2HG2	VAL	163	29.696	42.431	11.192
ATOM	2586	3HG2	VAL	163	30.349	43.980	10.630
ATOM	2587	C	VAL	163	27.613	42.651	7.614
ATOM	2588	O	VAL	163	27.116	43.677	7.153
ATOM	2589	N	ASP	164	27.574	41.491	6.950
ATOM	2590	H	ASP	164	28.005	40.670	7.362
ATOM	2591	CA	ASP	164	26.918	41.341	5.647
ATOM	2592	HA	ASP	164	27.387	42.026	4.939
ATOM	2593	CB	ASP	164	27.128	39.911	5.136
ATOM	2594	ZHB	ASP	164	28.195	39.684	5.130
ATOM	2595	3HB	ASP	164	26.625	39.202	5.796
ATOM	2596	CG	ASP	164	26.578	39.789	3.718
ATOM	2597	OD1	ASP	164	25.347	39.622	3.560
ATOM	2598	OD2	ASP	164	27.351	40.011	2.764
ATOM	2599	C	ASP	164	25.419	41.691	5.710
ATOM	2600	O	ASP	164	24.907	42.399	4.836
ATOM	2601	N	PHE	165	24.725	41.278	6.778
ATOM	2602	H	PHE	165	25.178	40.653	7.440
ATOM	2603	CA	PHE	165	23.327	41.640	7.003
ATOM	2604	HA	PHE	165	22.760	41.326	6.126

ATOM	2605	CB	PHE	165	22.771	40.885	8.221
ATOM	2606	ZHB	PHE	165	22.948	39.817	8.085
ATOM	2607	3HB	PHE	165	23.311	41.192	9.116
ATOM	2608	CG	PHE	165	21.286	41.111	8.446
ATOM	2609	CD1	PHE	165	20.344	40.202	7.926
ATOM	2610	HD1	PHE	165	20.680	39.317	7.402
ATOM	2611	CE1	PHE	165	18.967	40.432	8.103
ATOM	2612	HE1	PHE	165	18.242	39.725	7.724
ATOM	2613	CZ	PHE	165	18.530	41.578	8.790
ATOM	2614	HZ	PHE	165	17.473	41.760	8.927
ATOM	2615	CE2	PHE	165	19.466	42.477	9.329
ATOM	2616	HE2	PHE	165	19.124	43.340	9.885
ATOM	2617	CD2	PHE	165	20.842	42.241	9.163
ATOM	2618	HD2	PHE	165	21.558	42.931	9.587
ATOM	2619	C	PHE	165	23.152	43.160	7.145
ATOM	2620	O	PHE	165	22.280	43.732	6.486
ATOM	2621	N	MET	166	23.995	43.837	7.938
ATOM	2622	H	MET	166	24.711	43.317	8.440
ATOM	2623	CA	MET	166	23.937	45.300	8.093
ATOM	2624	HA	MET	166	22.934	45.568	8.425
ATOM	2625	CB	MET	166	24.939	45.799	9.145
ATOM	2626	ZHB	MET	166	25.941	45.427	8.925
ATOM	2627	3HB	MET	166	24.967	46.888	9.089
ATOM	2628	CG	MET	166	24.547	45.412	10.574
ATOM	2629	ZHG	MET	166	23.461	45.407	10.666
ATOM	2630	3HG	MET	166	24.915	44.409	10.781
ATOM	2631	SD	MET	166	25.212	46.557	11.811
ATOM	2632	CE	MET	166	24.920	45.622	13.332
ATOM	2633	1HE	MET	166	23.850	45.534	13.514
ATOM	2634	2HE	MET	166	25.360	44.629	13.242
ATOM	2635	3HE	MET	166	25.388	46.143	14.168
ATOM	2636	C	MET	166	24.178	46.046	6.775
ATOM	2637	O	MET	166	23.473	47.020	6.495
ATOM	2638	N	LEU	167	25.114	45.574	5.946
ATOM	2639	H	LEU	167	25.693	44.801	6.268
ATOM	2640	CA	LEU	167	25.357	46.100	4.601
ATOM	2641	HA	LEU	167	25.526	47.175	4.673
ATOM	2642	CB	LEU	167	26.644	45.437	4.062
ATOM	2643	ZHB	LEU	167	27.452	45.649	4.764
ATOM	2644	3HB	LEU	167	26.505	44.356	4.047
ATOM	2645	CG	LEU	167	27.101	45.876	2.658
ATOM	2646	HG	LEU	167	26.344	45.590	1.928
ATOM	2647	CD1	LEU	167	27.346	47.380	2.561
ATOM	2648	1HD1	LEU	167	26.406	47.924	2.649
ATOM	2649	2HD1	LEU	167	28.033	47.705	3.342
ATOM	2650	3HD1	LEU	167	27.782	47.621	1.591
ATOM	2651	CD2	LEU	167	28.407	45.160	2.307
ATOM	2652	1HD2	LEU	167	28.711	45.422	1.293
ATOM	2653	2HD2	LEU	167	29.197	45.467	2.994
ATOM	2654	3HD2	LEU	167	28.275	44.080	2.368
ATOM	2655	C	LEU	167	24.122	45.886	3.704
ATOM	2656	O	LEU	167	23.513	46.842	3.225
ATOM	2657	N	HIP	168	23.660	44.640	3.558
ATOM	2658	H	HIP	168	24.166	43.894	4.032
ATOM	2659	CA	HIP	168	22.556	44.275	2.653
ATOM	2660	HA	HIP	168	22.670	44.879	1.752
ATOM	2661	CB	HIP	168	22.694	42.800	2.241
ATOM	2662	ZHB	HIP	168	22.698	42.174	3.136
ATOM	2663	3HB	HIP	168	21.837	42.511	1.631
ATOM	2664	CG	HIP	168	23.942	42.528	1.436
ATOM	2665	ND1	HIP	168	24.927	41.611	1.743
ATOM	2666	HD1	HIP	168	24.952	40.961	2.545
ATOM	2667	CE1	HIP	168	25.884	41.689	0.802
ATOM	2668	HE1	HIP	168	26.792	41.089	0.804
ATOM	2669	NE2	HIP	168	25.533	42.626	-0.103
ATOM	2670	HE2	HIP	168	26.083	42.905	-0.909
ATOM	2671	CD2	HIP	168	24.312	43.158	0.277
ATOM	2672	HD2	HIP	168	23.758	43.939	-0.233
ATOM	2673	C	HIP	168	21.142	44.619	3.156
ATOM	2674	O	HIP	168	20.170	44.317	2.466
ATOM	2675	N	HIP	169	20.995	45.251	4.326
ATOM	2676	H	HIP	169	21.823	45.353	4.901
ATOM	2677	CA	HIP	169	19.719	45.804	4.826
ATOM	2678	HA	HIP	169	18.998	45.767	4.009
ATOM	2679	CB	HIP	169	19.147	44.931	5.964
ATOM	2680	ZHB	HIP	169	19.909	44.762	6.727
ATOM	2681	3HB	HIP	169	18.314	45.446	6.445
ATOM	2682	CG	HIP	169	18.622	43.615	5.459
ATOM	2683	ND1	HIP	169	17.383	43.408	4.882
ATOM	2684	HD1	HIP	169	16.672	44.121	4.751
ATOM	2685	CE1	HIP	169	17.319	42.118	4.493
ATOM	2686	HE1	HIP	169	16.480	41.661	3.975
ATOM	2687	NE2	HIP	169	18.481	41.509	4.816
ATOM	2688	HE2	HIP	169	18.732	40.549	4.612
ATOM	2689	CD2	HIP	169	19.309	42.437	5.424
ATOM	2690	HD2	HIP	169	20.318	42.287	5.793
ATOM	2691	C	HIP	169	19.781	47.305	5.156
ATOM	2692	O	HIP	169	19.045	47.764	6.021
ATOM	2693	N	CYS	170	20.628	48.065	4.457
ATOM	2694	H	CYS	170	21.215	47.612	3.772
ATOM	2695	CA	CYS	170	20.720	49.532	4.546
ATOM	2696	HA	CYS	170	21.498	49.837	3.852
ATOM	2697	CB	CYS	170	19.415	50.179	4.045
ATOM	2698	ZHB	CYS	170	18.585	49.899	4.698
ATOM	2699	3HB	CYS	170	19.511	51.265	4.073
ATOM	2700	SG	CYS	170	19.052	49.662	2.346
ATOM	2701	HG	CYS	170	17.848	50.243	2.300
ATOM	2702	C	CYS	170	21.154	50.099	5.912
ATOM	2703	O	CYS	170	21.138	51.312	6.099
ATOM	2704	N	ILE	171	21.586	49.264	6.860
ATOM	2705	H	ILE	171	21.664	48.279	6.642
ATOM	2706	CA	ILE	171	21.945	49.701	8.220
ATOM	2707	HA	ILE	171	21.201	50.437	8.544
ATOM	2708	CB	ILE	171	21.896	48.525	9.237
ATOM	2709	HB	ILE	171	22.691	47.825	8.972

ATOM	2710	CG2	ILE	171	22.208	49.072	10.646
ATOM	2711	1HG2	ILE	171	23.286	49.228	10.757
ATOM	2712	2HG2	ILE	171	21.705	50.031	10.820
ATOM	2713	3HG2	ILE	171	21.902	48.368	11.427
ATOM	2714	CG1	ILE	171	20.544	47.788	9.130
ATOM	2715	2HG1	ILE	171	19.757	48.503	9.282
ATOM	2716	3HG1	ILE	171	20.400	47.404	8.126
ATOM	2717	CD1	ILE	171	20.339	46.631	10.094
ATOM	2718	1HD1	ILE	171	19.902	45.762	9.597
ATOM	2719	2HD1	ILE	171	21.286	46.356	10.566
ATOM	2720	3HD1	ILE	171	19.647	46.983	10.876
ATOM	2721	C	ILE	171	23.301	50.420	8.184
ATOM	2722	O	ILE	171	23.421	51.517	8.725
ATOM	2723	N	ALA	172	24.273	49.873	7.448
ATOM	2724	H	ALA	172	24.107	48.963	7.030
ATOM	2725	CA	ALA	172	25.541	50.551	7.201
ATOM	2726	HA	ALA	172	25.997	50.782	8.163
ATOM	2727	CB	ALA	172	26.473	49.582	6.464
ATOM	2728	1HB	ALA	172	27.483	49.994	6.442
ATOM	2729	2HB	ALA	172	26.509	48.621	6.981
ATOM	2730	3HB	ALA	172	26.134	49.424	5.439
ATOM	2731	C	ALA	172	25.353	51.892	6.452
ATOM	2732	O	ALA	172	26.038	52.865	6.756
ATOM	2733	N	ARG	173	24.359	51.994	5.549
ATOM	2734	H	ARG	173	23.831	51.161	5.344
ATOM	2735	CA	ARG	173	23.961	53.255	4.881
ATOM	2736	HA	ARG	173	24.852	53.706	4.437
ATOM	2737	CB	ARG	173	22.949	52.961	3.758
ATOM	2738	2HB	ARG	173	23.344	52.147	3.149
ATOM	2739	3HB	ARG	173	22.006	52.630	4.189
ATOM	2740	CG	ARG	173	22.661	54.184	2.863
ATOM	2741	2HG	ARG	173	22.234	54.988	3.463
ATOM	2742	3HG	ARG	173	23.596	54.536	2.429
ATOM	2743	CD	ARG	173	21.672	53.854	1.730
ATOM	2744	2HD	ARG	173	20.739	53.480	2.154
ATOM	2745	3HD	ARG	173	21.477	54.760	1.153
ATOM	2746	NE	ARG	173	22.264	52.840	0.848
ATOM	2747	HE	ARG	173	23.244	52.626	1.030
ATOM	2748	CZ	ARG	173	21.793	52.178	-0.178
ATOM	2749	NH1	ARG	173	20.608	52.382	-0.675
ATOM	2750	1HH1	ARG	173	20.050	53.116	-0.284
ATOM	2751	2HH1	ARG	173	20.321	51.870	-1.481
ATOM	2752	NH2	ARG	173	22.556	51.272	-0.722
ATOM	2753	1HH2	ARG	173	23.486	51.103	-0.301
ATOM	2754	2HH2	ARG	173	22.301	50.760	-1.536
ATOM	2755	C	ARG	173	23.401	54.284	5.864
ATOM	2756	O	ARG	173	23.786	55.447	5.808
ATOM	2757	N	TRP	174	22.525	53.858	6.773
ATOM	2758	H	TRP	174	22.231	52.889	6.735
ATOM	2759	CA	TRP	174	21.931	54.722	7.798
ATOM	2760	HA	TRP	174	21.487	55.593	7.311
ATOM	2761	CB	TRP	174	20.813	53.942	8.503
ATOM	2762	2HB	TRP	174	20.137	53.538	7.748
ATOM	2763	3HB	TRP	174	21.251	53.096	9.034
ATOM	2764	CG	TRP	174	19.997	54.737	9.475
ATOM	2765	CD1	TRP	174	18.940	55.518	9.158
ATOM	2766	HD1	TRP	174	18.556	55.658	8.153
ATOM	2767	NE1	TRP	174	18.438	56.109	10.302
ATOM	2768	HE1	TRP	174	17.629	56.713	10.300
ATOM	2769	CE2	TRP	174	19.172	55.759	11.416
ATOM	2770	CZ2	TRP	174	19.086	56.116	12.770
ATOM	2771	HZ2	TRP	174	18.316	56.792	13.106
ATOM	2772	CH2	TRP	174	20.029	55.591	13.671
ATOM	2773	HH2	TRP	174	20.000	55.869	14.714
ATOM	2774	CZ3	TRP	174	21.024	54.711	13.211
ATOM	2775	HZ3	TRP	174	21.755	54.313	13.899
ATOM	2776	CE3	TRP	174	21.091	54.351	11.853
ATOM	2777	HE3	TRP	174	21.865	53.678	11.511
ATOM	2778	CD2	TRP	174	20.174	54.873	10.917
ATOM	2779	C	TRP	174	22.980	55.250	8.794
ATOM	2780	O	TRP	174	22.892	56.395	9.234
ATOM	2781	N	ILE	175	24.012	54.452	9.097
ATOM	2782	H	ILE	175	23.989	53.493	8.764
ATOM	2783	CA	ILE	175	25.162	54.882	9.909
ATOM	2784	HA	ILE	175	24.781	55.507	10.717
ATOM	2785	CB	ILE	175	25.833	53.657	10.586
ATOM	2786	HB	ILE	175	26.063	52.918	9.820
ATOM	2787	CG2	ILE	175	27.151	54.061	11.279
ATOM	2788	1HG2	ILE	175	26.947	54.721	12.123
ATOM	2789	2HG2	ILE	175	27.684	53.176	11.627
ATOM	2790	3HG2	ILE	175	27.821	54.564	10.584
ATOM	2791	CG1	ILE	175	24.802	53.045	11.577
ATOM	2792	2HG1	ILE	175	24.299	53.863	12.091
ATOM	2793	3HG1	ILE	175	24.042	52.515	11.001
ATOM	2794	CD1	ILE	175	25.285	52.078	12.669
ATOM	2795	1HD1	ILE	175	26.262	52.358	13.057
ATOM	2796	2HD1	ILE	175	24.583	52.123	13.501
ATOM	2797	3HD1	ILE	175	25.313	51.056	12.291
ATOM	2798	C	ILE	175	26.116	55.796	9.112
ATOM	2799	O	ILE	175	26.583	56.794	9.659
ATOM	2800	N	ALA	176	26.340	55.553	7.813
ATOM	2801	H	ALA	176	25.998	54.688	7.414
ATOM	2802	CA	ALA	176	27.115	56.457	6.946
ATOM	2803	HA	ALA	176	28.101	56.608	7.392
ATOM	2804	CB	ALA	176	27.320	55.800	5.570
ATOM	2805	1HB	ALA	176	27.678	54.777	5.686
ATOM	2806	2HB	ALA	176	26.389	55.794	5.004
ATOM	2807	3HB	ALA	176	28.071	56.367	5.016
ATOM	2808	C	ALA	176	26.449	57.845	6.827
ATOM	2809	O	ALA	176	27.094	58.874	7.016
ATOM	2810	N	GLN	177	25.122	57.890	6.652
ATOM	2811	H	GLN	177	24.637	57.014	6.485
ATOM	2812	CA	GLN	177	24.316	59.124	6.704
ATOM	2813	HA	GLN	177	24.721	59.838	5.984
ATOM	2814	CB	GLN	177	22.867	58.794	6.314

ATOM	2815	ZHB	GLN	177	22.538	57.910	6.863
ATOM	2816	3HB	GLN	177	22.219	59.628	6.590
ATOM	2817	CG	GLN	177	22.713	58.561	4.806
ATOM	2818	ZHG	GLN	177	22.974	59.483	4.284
ATOM	2819	3HG	GLN	177	23.394	57.780	4.472
ATOM	2820	CD	GLN	177	21.296	58.159	4.412
ATOM	2821	OE1	GLN	177	20.496	57.661	5.187
ATOM	2822	NE2	GLN	177	20.932	58.346	3.164
ATOM	2823	1HE2	GLN	177	19.974	58.138	2.949
ATOM	2824	2HE2	GLN	177	21.559	58.790	2.518
ATOM	2825	C	GLN	177	24.338	59.830	8.076
ATOM	2826	O	GLN	177	23.937	60.988	8.177
ATOM	2827	N	ARG	178	24.816	59.153	9.127
ATOM	2828	H	ARG	178	25.094	58.195	8.965
ATOM	2829	CA	ARG	178	25.060	59.690	10.476
ATOM	2830	HA	ARG	178	24.546	60.649	10.565
ATOM	2831	CB	ARG	178	24.476	58.710	11.515
ATOM	2832	ZHB	ARG	178	24.368	57.717	11.081
ATOM	2833	3HB	ARG	178	25.134	58.628	12.381
ATOM	2834	CG	ARG	178	23.116	59.213	11.095
ATOM	2835	ZHG	ARG	178	23.286	60.108	12.598
ATOM	2836	3HG	ARG	178	22.505	59.483	11.133
ATOM	2837	CD	ARG	178	22.366	58.157	12.820
ATOM	2838	ZHD	ARG	178	21.809	57.501	12.147
ATOM	2839	3HD	ARG	178	23.084	57.545	13.372
ATOM	2840	NE	ARG	178	21.440	58.781	13.778
ATOM	2841	HE	ARG	178	21.660	58.654	14.755
ATOM	2842	CZ	ARG	178	20.382	59.511	13.485
ATOM	2843	NH1	ARG	178	19.725	60.090	14.444
ATOM	2844	1HH1	ARG	178	20.058	60.001	15.390
ATOM	2845	2HH1	ARG	178	18.938	60.676	14.241
ATOM	2846	NH2	ARG	178	19.947	59.681	12.264
ATOM	2847	1HH2	ARG	178	20.414	59.201	11.513
ATOM	2848	2HH2	ARG	178	19.166	60.281	12.075
ATOM	2849	C	ARG	178	26.527	60.048	10.754
ATOM	2850	O	ARG	178	26.855	60.373	11.888
ATOM	2851	N	GLY	179	27.398	60.010	9.742
ATOM	2852	H	GLY	179	27.064	59.733	8.828
ATOM	2853	CA	GLY	179	28.821	60.346	9.872
ATOM	2854	ZHA	GLY	179	29.195	60.638	8.891
ATOM	2855	3HA	GLY	179	28.938	61.192	10.550
ATOM	2856	C	GLY	179	29.710	59.206	10.381
ATOM	2857	O	GLY	179	30.817	59.464	10.844
ATOM	2858	N	GLY	180	29.240	57.958	10.309
ATOM	2859	H	GLY	180	28.299	57.818	9.963
ATOM	2860	CA	GLY	180	29.962	56.788	10.808
ATOM	2861	ZHA	GLY	180	29.652	55.912	10.241
ATOM	2862	3HA	GLY	180	31.032	56.920	10.652
ATOM	2863	C	GLY	180	29.730	56.515	12.297
ATOM	2864	O	GLY	180	29.077	57.279	13.010
ATOM	2865	N	TRP	181	30.267	55.390	12.773
ATOM	2866	H	TRP	181	30.798	54.809	12.140
ATOM	2867	CA	TRP	181	30.017	54.861	14.121
ATOM	2868	HA	TRP	181	28.956	54.632	14.221
ATOM	2869	CB	TRP	181	30.798	53.552	14.280
ATOM	2870	ZHB	TRP	181	31.776	53.631	13.800
ATOM	2871	3HB	TRP	181	30.983	53.385	15.334
ATOM	2872	CG	TRP	181	30.074	52.350	13.768
ATOM	2873	CD1	TRP	181	30.359	51.677	12.631
ATOM	2874	HD1	TRP	181	31.172	51.907	11.952
ATOM	2875	NE1	TRP	181	29.466	50.635	12.485
ATOM	2876	HE1	TRP	181	29.509	49.955	11.728
ATOM	2877	CE2	TRP	181	28.573	50.568	13.526
ATOM	2878	CZ2	TRP	181	27.505	49.706	13.815
ATOM	2879	HZ2	TRP	181	27.255	48.905	13.134
ATOM	2880	CH2	TRP	181	26.773	49.901	14.997
ATOM	2881	HH2	TRP	181	25.943	49.251	15.232
ATOM	2882	CZ3	TRP	181	27.133	50.934	15.881
ATOM	2883	HZ3	TRP	181	26.584	51.052	16.803
ATOM	2884	CE3	TRP	181	28.208	51.797	15.578
ATOM	2885	HE3	TRP	181	28.488	52.576	16.271
ATOM	2886	CD2	TRP	181	28.947	51.645	14.382
ATOM	2887	C	TRP	181	30.346	55.840	15.255
ATOM	2888	O	TRP	181	29.586	55.939	16.218
ATOM	2889	N	VAL	182	31.429	56.611	15.129
ATOM	2890	H	VAL	182	32.018	56.478	14.320
ATOM	2891	CA	VAL	182	31.862	57.565	16.165
ATOM	2892	HA	VAL	182	31.913	57.029	17.115
ATOM	2893	CB	VAL	182	33.262	58.126	15.837
ATOM	2894	HB	VAL	182	33.167	58.871	15.045
ATOM	2895	CG1	VAL	182	33.892	58.785	17.066
ATOM	2896	1HG1	VAL	182	33.308	59.653	17.369
ATOM	2897	2HG1	VAL	182	34.902	59.118	16.830
ATOM	2898	3HG1	VAL	182	33.933	58.072	17.892
ATOM	2899	CG2	VAL	182	34.241	57.042	15.357
ATOM	2900	1HG2	VAL	182	35.252	57.446	15.317
ATOM	2901	2HG2	VAL	182	33.977	56.718	14.352
ATOM	2902	3HG2	VAL	182	34.223	56.190	16.038
ATOM	2903	C	VAL	182	30.861	58.716	16.347
ATOM	2904	O	VAL	182	30.573	59.122	17.471
ATOM	2905	N	ALA	183	30.285	59.215	15.248
ATOM	2906	H	ALA	183	30.516	58.817	14.351
ATOM	2907	CA	ALA	183	29.262	60.261	15.276
ATOM	2908	HA	ALA	183	29.523	60.993	16.043
ATOM	2909	CB	ALA	183	29.270	60.966	13.918
ATOM	2910	1HB	ALA	183	30.178	61.559	13.818
ATOM	2911	2HB	ALA	183	29.227	60.230	13.117
ATOM	2912	3HB	ALA	183	28.403	61.623	13.845
ATOM	2913	C	ALA	183	27.870	59.714	15.643
ATOM	2914	O	ALA	183	27.130	60.370	16.375
ATOM	2915	N	ALA	184	27.536	58.494	15.206
ATOM	2916	H	ALA	184	28.151	58.036	14.545
ATOM	2917	CA	ALA	184	26.300	57.816	15.589
ATOM	2918	HA	ALA	184	25.464	58.465	15.370
ATOM	2919	CB	ALA	184	26.162	56.532	14.765

ATOM	2920	1HB	ALA	184	25.438	55.866	15.238
ATOM	2921	2HB	ALA	184	25.814	56.779	13.763
ATOM	2922	3HB	ALA	184	27.120	56.019	14.697
ATOM	2923	C	ALA	184	26.216	57.520	17.098
ATOM	2924	O	ALA	184	25.138	57.645	17.674
ATOM	2925	N	LEU	185	27.328	57.149	17.760
ATOM	2926	H	LEU	185	28.179	56.997	17.234
ATOM	2927	CA	LEU	185	27.331	56.763	19.187
ATOM	2928	HA	LEU	185	26.436	56.151	19.367
ATOM	2929	CB	LEU	185	28.594	55.926	19.484
ATOM	2930	2HB	LEU	185	28.536	55.001	18.895
ATOM	2931	3HB	LEU	185	29.455	56.510	19.142
ATOM	2932	CG	LEU	185	28.771	55.609	20.985
ATOM	2933	HG	LEU	185	28.774	56.543	21.540
ATOM	2934	CD1	LEU	185	27.676	54.701	21.522
ATOM	2935	1HD1	LEU	185	26.693	55.196	21.502
ATOM	2936	2HD1	LEU	185	27.893	54.469	22.548
ATOM	2937	3HD1	LEU	185	27.611	53.793	20.948
ATOM	2938	CD2	LEU	185	30.104	54.935	21.238
ATOM	2939	1HD2	LEU	185	30.914	55.453	20.708
ATOM	2940	2HD2	LEU	185	30.087	53.880	20.960
ATOM	2941	3HD2	LEU	185	30.320	55.019	22.290
ATOM	2942	C	LEU	185	27.230	57.958	20.147
ATOM	2943	O	LEU	185	26.487	57.875	21.125
ATOM	2944	N	ASN	186	28.011	59.020	19.903
ATOM	2945	H	ASN	186	28.625	58.975	19.104
ATOM	2946	CA	ASN	186	28.133	60.195	20.784
ATOM	2947	HA	ASN	186	28.644	59.913	21.708
ATOM	2948	CB	ASN	186	29.000	61.217	20.020
ATOM	2949	2HB	ASN	186	29.943	60.750	19.747
ATOM	2950	3HB	ASN	186	28.473	61.514	19.113
ATOM	2951	CG	ASN	186	29.350	62.443	20.836
ATOM	2952	OD1	ASN	186	29.519	62.418	22.035
ATOM	2953	ND2	ASN	186	29.572	63.550	20.168
ATOM	2954	1HD2	ASN	186	29.868	64.335	20.719
ATOM	2955	2HD2	ASN	186	29.549	63.538	19.177
ATOM	2956	C	ASN	186	26.767	60.821	21.160
ATOM	2957	O	ASN	186	26.610	61.463	22.193
ATOM	2958	N	LEU	187	25.787	60.670	20.266
ATOM	2959	H	LEU	187	26.024	60.147	19.437
ATOM	2960	CA	LEU	187	24.545	61.426	20.246
ATOM	2961	HA	LEU	187	24.750	62.377	20.734
ATOM	2962	CB	LEU	187	24.250	61.679	18.753
ATOM	2963	2HB	LEU	187	25.181	61.576	18.184
ATOM	2964	3HB	LEU	187	23.564	60.919	18.374
ATOM	2965	CG	LEU	187	23.712	63.083	18.456
ATOM	2966	HG	LEU	187	24.368	63.827	18.919
ATOM	2967	CD1	LEU	187	23.717	63.290	16.939
ATOM	2968	1HD1	LEU	187	23.217	62.454	16.456
ATOM	2969	2HD1	LEU	187	23.208	64.218	16.696
ATOM	2970	3HD1	LEU	187	24.744	63.344	16.589
ATOM	2971	CD2	LEU	187	22.284	63.274	18.973
ATOM	2972	1HD2	LEU	187	21.886	64.227	18.634
ATOM	2973	2HD2	LEU	187	21.657	62.463	18.616
ATOM	2974	3HD2	LEU	187	22.271	63.270	20.065
ATOM	2975	C	LEU	187	23.422	60.750	21.050
ATOM	2976	O	LEU	187	22.248	60.748	20.664

END

DATASET 56

HEADER APOPTOSIS 29-OCT-11 XXXX
 TITLE 3D MODEL OF BAK IN COMPLEX WITH THE BH3 DOMAIN OF BIM
 COMPN1 MOLECULE: APOPTOSIS REGULATOR BAK;
 COMPN2 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
 COMPN3 3 PROTEIN;
 SOURCE MOLECULE 1 (RESIDUES 1-24): BIM;
 SOURCE 2 NCBI ACCESSION: 043521;
 SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 4 ORGANISM_COMMON: HUMAN;
 SOURCE 5 MOLECULE 2 (RESIDUES 25-187): BAK;
 SOURCE 6 NCBI ACCESSION: Q16611;
 SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 8 ORGANISM_COMMON: HUMAN;
 KEYWDS HETERODIMER, APOPTOSIS
 EXPDTA THEORETICAL MODEL
 JRNL AUTH Y-P PANG, H DAI, A SMITH, XW MENG, PA SCHNEIDER, SH KAUFMANN
 JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING:
 JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
 JRNL REF SCIENTIFIC REPORTS, SUBMITTED
 REMARK 220 THIS IS AN INSTANTANEOUS CONFORMATION CLOSEST TO THE
 REMARK 220 AVERAGE OF 19,500 SIMILAR CONFORMERS IDENTIFIED BY
 REMARK 220 CLUSTER ANALYSIS OF 80 10-NS MOLECULAR
 REMARK 220 DYNAMICS SIMULATIONS OF BAK*NOXA USING PMEMD WITH
 REMARK 220 THE FF99SB FORCE FIELD. NOTE: THIS MODEL
 REMARK 220 CONTAINS WATERS.
 MOL 1
 ATOM 1 N ARG 1 2.395 31.464 13.980 0.00 0.00 N
 ATOM 2 CA ARG 1 2.047 32.574 14.815 0.00 0.00 C
 ATOM 3 C ARG 1 3.313 33.081 15.538 0.00 0.00 C
 ATOM 4 O ARG 1 3.699 34.190 15.247 0.00 0.00 O
 ATOM 5 CB ARG 1 1.244 33.686 14.062 0.00 0.00 C
 ATOM 6 CG ARG 1 -0.125 33.130 13.655 0.00 0.00 C
 ATOM 7 CD ARG 1 -0.776 34.118 12.689 0.00 0.00 C
 ATOM 8 NE ARG 1 -1.969 33.558 12.097 0.00 0.00 N
 ATOM 9 CZ ARG 1 -2.162 33.135 10.866 0.00 0.00 C
 ATOM 10 NH1 ARG 1 -1.222 33.090 9.965 0.00 0.00 N1+
 ATOM 11 NH2 ARG 1 -3.356 32.774 10.532 0.00 0.00 N
 ATOM 12 H ARG 1 3.251 31.427 13.446 0.00 0.00 H
 ATOM 13 HA ARG 1 1.424 32.126 15.590 0.00 0.00 H
 ATOM 14 HB2 ARG 1 1.151 34.581 14.678 0.00 0.00 H
 ATOM 15 HB3 ARG 1 1.832 33.944 13.181 0.00 0.00 H
 ATOM 16 HG2 ARG 1 0.086 32.205 13.118 0.00 0.00 H
 ATOM 17 HG3 ARG 1 -0.761 32.964 14.524 0.00 0.00 H
 ATOM 18 HD2 ARG 1 -1.106 34.990 13.252 0.00 0.00 H
 ATOM 19 HD3 ARG 1 -0.090 34.441 11.905 0.00 0.00 H

ATOM	20	HE	ARG	1	-2.812	33.421	12.636	0.00	0.00	H
ATOM	21	HH11	ARG	1	-0.250	33.243	10.191	0.00	0.00	H
ATOM	22	HH12	ARG	1	-1.386	32.624	9.083	0.00	0.00	H
ATOM	23	HH21	ARG	1	-4.009	32.770	11.302	0.00	0.00	H
ATOM	24	HH22	ARG	1	-3.604	32.780	9.553	0.00	0.00	H
ATOM	25	N	PRO	2	4.118	32.251	16.244	0.00	0.00	N
ATOM	26	CA	PRO	2	5.220	32.808	17.128	0.00	0.00	C
ATOM	27	C	PRO	2	6.302	33.551	16.314	0.00	0.00	C
ATOM	28	O	PRO	2	6.773	34.547	16.715	0.00	0.00	O
ATOM	29	CB	PRO	2	5.787	31.588	17.838	0.00	0.00	C
ATOM	30	CG	PRO	2	4.575	30.605	17.990	0.00	0.00	C
ATOM	31	CD	PRO	2	3.805	30.911	16.684	0.00	0.00	C
ATOM	32	HA	PRO	2	4.759	33.390	17.925	0.00	0.00	H
ATOM	33	HB2	PRO	2	6.218	31.824	18.811	0.00	0.00	H
ATOM	34	HB3	PRO	2	6.583	31.092	17.281	0.00	0.00	H
ATOM	35	HG2	PRO	2	4.909	29.575	18.119	0.00	0.00	H
ATOM	36	HG3	PRO	2	4.030	30.912	18.883	0.00	0.00	H
ATOM	37	HD2	PRO	2	4.129	30.134	15.992	0.00	0.00	H
ATOM	38	HD3	PRO	2	2.736	30.837	16.890	0.00	0.00	H
ATOM	39	N	GLU	3	6.604	33.109	15.084	0.00	0.00	N
ATOM	40	CA	GLU	3	7.737	33.641	14.280	0.00	0.00	C
ATOM	41	C	GLU	3	7.471	35.120	13.922	0.00	0.00	C
ATOM	42	O	GLU	3	8.364	35.976	13.734	0.00	0.00	O
ATOM	43	CB	GLU	3	8.139	32.694	13.150	0.00	0.00	C
ATOM	44	CG	GLU	3	7.026	32.303	12.173	0.00	0.00	C
ATOM	45	CD	GLU	3	6.063	31.228	12.645	0.00	0.00	C
ATOM	46	OE1	GLU	3	6.470	30.079	12.739	0.00	0.00	O
ATOM	47	OE2	GLU	3	4.910	31.502	12.864	0.00	0.00	O1-
ATOM	48	H	GLU	3	6.114	32.259	14.843	0.00	0.00	H
ATOM	49	HA	GLU	3	8.630	33.721	14.900	0.00	0.00	H
ATOM	50	HB2	GLU	3	8.951	33.182	12.611	0.00	0.00	H
ATOM	51	HB3	GLU	3	8.524	31.788	13.619	0.00	0.00	H
ATOM	52	HG2	GLU	3	6.420	33.126	11.795	0.00	0.00	H
ATOM	53	HG3	GLU	3	7.455	31.939	11.239	0.00	0.00	H
ATOM	54	N	ILE	4	6.203	35.431	13.865	0.00	0.00	N
ATOM	55	CA	ILE	4	5.673	36.752	13.550	0.00	0.00	C
ATOM	56	C	ILE	4	5.637	37.667	14.793	0.00	0.00	C
ATOM	57	O	ILE	4	5.946	38.894	14.811	0.00	0.00	O
ATOM	58	CB	ILE	4	4.287	36.626	12.874	0.00	0.00	C
ATOM	59	CG1	ILE	4	4.082	35.389	11.884	0.00	0.00	C
ATOM	60	CG2	ILE	4	4.213	38.006	12.121	0.00	0.00	C
ATOM	61	CD1	ILE	4	5.024	35.319	10.655	0.00	0.00	C
ATOM	62	H	ILE	4	5.517	34.703	14.010	0.00	0.00	H
ATOM	63	HA	ILE	4	6.385	37.270	12.906	0.00	0.00	H
ATOM	64	HB	ILE	4	3.497	36.578	13.624	0.00	0.00	H
ATOM	65	HG12	ILE	4	4.264	34.430	12.370	0.00	0.00	H
ATOM	66	HG13	ILE	4	3.067	35.387	11.491	0.00	0.00	H
ATOM	67	HG21	ILE	4	4.047	38.862	12.775	0.00	0.00	H
ATOM	68	HG22	ILE	4	5.086	38.120	11.479	0.00	0.00	H
ATOM	69	HG23	ILE	4	3.315	37.983	11.504	0.00	0.00	H
ATOM	70	HD11	ILE	4	4.860	34.372	10.142	0.00	0.00	H
ATOM	71	HD12	ILE	4	4.723	36.105	9.961	0.00	0.00	H
ATOM	72	HD13	ILE	4	6.072	35.437	10.931	0.00	0.00	H
ATOM	73	N	TRP	5	5.250	37.031	15.918	0.00	0.00	N
ATOM	74	CA	TRP	5	5.119	37.682	17.220	0.00	0.00	C
ATOM	75	C	TRP	5	6.520	38.074	17.760	0.00	0.00	C
ATOM	76	O	TRP	5	6.741	39.197	18.235	0.00	0.00	O
ATOM	77	CB	TRP	5	4.243	36.799	18.169	0.00	0.00	C
ATOM	78	CG	TRP	5	2.882	36.347	17.686	0.00	0.00	C
ATOM	79	CD1	TRP	5	1.934	37.134	17.104	0.00	0.00	C
ATOM	80	CD2	TRP	5	2.141	35.094	18.046	0.00	0.00	C
ATOM	81	CE2	TRP	5	0.901	35.093	17.385	0.00	0.00	C
ATOM	82	CE3	TRP	5	2.492	34.096	18.956	0.00	0.00	C
ATOM	83	NE1	TRP	5	0.853	36.365	16.815	0.00	0.00	N
ATOM	84	CZ2	TRP	5	0.096	33.998	17.466	0.00	0.00	C
ATOM	85	CZ3	TRP	5	1.664	32.992	19.082	0.00	0.00	C
ATOM	86	CH2	TRP	5	0.446	32.946	18.388	0.00	0.00	C
ATOM	87	H	TRP	5	4.979	36.058	15.918	0.00	0.00	H
ATOM	88	HA	TRP	5	4.541	38.603	17.143	0.00	0.00	H
ATOM	89	HB2	TRP	5	4.745	35.976	18.677	0.00	0.00	H
ATOM	90	HB3	TRP	5	4.036	37.548	18.933	0.00	0.00	H
ATOM	91	HD1	TRP	5	2.054	38.155	16.774	0.00	0.00	H
ATOM	92	HE1	TRP	5	0.067	36.711	16.284	0.00	0.00	H
ATOM	93	HE3	TRP	5	3.420	34.109	19.508	0.00	0.00	H
ATOM	94	HZ2	TRP	5	-0.840	34.043	16.930	0.00	0.00	H
ATOM	95	HZ3	TRP	5	2.046	32.135	19.618	0.00	0.00	H
ATOM	96	HH2	TRP	5	-0.204	32.090	18.507	0.00	0.00	H
ATOM	97	N	ILE	6	7.477	37.151	17.657	0.00	0.00	N
ATOM	98	CA	ILE	6	8.804	37.333	18.229	0.00	0.00	C
ATOM	99	C	ILE	6	9.617	38.374	17.420	0.00	0.00	C
ATOM	100	O	ILE	6	10.313	39.114	18.073	0.00	0.00	O
ATOM	101	CB	ILE	6	9.417	35.984	18.456	0.00	0.00	C
ATOM	102	CG1	ILE	6	10.599	36.087	19.471	0.00	0.00	C
ATOM	103	CG2	ILE	6	9.815	35.383	17.090	0.00	0.00	C
ATOM	104	CD1	ILE	6	10.284	36.660	20.866	0.00	0.00	C
ATOM	105	H	ILE	6	7.217	36.264	17.248	0.00	0.00	H
ATOM	106	HA	ILE	6	8.587	37.775	19.201	0.00	0.00	H
ATOM	107	HB	ILE	6	8.622	35.364	18.870	0.00	0.00	H
ATOM	108	HG12	ILE	6	10.974	35.071	19.597	0.00	0.00	H
ATOM	109	HG13	ILE	6	11.356	36.672	18.947	0.00	0.00	H
ATOM	110	HG21	ILE	6	10.735	35.814	16.694	0.00	0.00	H
ATOM	111	HG22	ILE	6	10.110	34.354	17.295	0.00	0.00	H
ATOM	112	HG23	ILE	6	9.101	35.416	16.266	0.00	0.00	H
ATOM	113	HD11	ILE	6	11.166	36.460	21.475	0.00	0.00	H
ATOM	114	HD12	ILE	6	10.109	37.736	20.841	0.00	0.00	H
ATOM	115	HD13	ILE	6	9.531	36.053	21.368	0.00	0.00	H
ATOM	116	N	ALA	7	9.383	38.454	16.084	0.00	0.00	N
ATOM	117	CA	ALA	7	9.896	39.498	15.203	0.00	0.00	C
ATOM	118	C	ALA	7	9.255	40.897	15.384	0.00	0.00	C
ATOM	119	O	ALA	7	9.973	41.892	15.354	0.00	0.00	O
ATOM	120	CB	ALA	7	9.733	38.940	13.772	0.00	0.00	C
ATOM	121	H	ALA	7	8.708	37.812	15.693	0.00	0.00	H
ATOM	122	HA	ALA	7	10.958	39.652	15.389	0.00	0.00	H
ATOM	123	HB1	ALA	7	10.128	37.924	13.770	0.00	0.00	H
ATOM	124	HB2	ALA	7	8.673	38.885	13.522	0.00	0.00	H

ATOM	125	HB3	ALA	7	10.215	39.657	13.107	0.00	0.00	H
ATOM	126	N	GLN	8	7.928	40.906	15.680	0.00	0.00	N
ATOM	127	CA	GLN	8	7.349	42.152	16.283	0.00	0.00	C
ATOM	128	C	GLN	8	7.771	42.491	17.722	0.00	0.00	C
ATOM	129	O	GLN	8	7.869	43.659	18.143	0.00	0.00	O
ATOM	130	CB	GLN	8	5.813	42.002	16.245	0.00	0.00	C
ATOM	131	CG	GLN	8	5.136	43.376	16.234	0.00	0.00	C
ATOM	132	CD	GLN	8	3.596	43.323	16.316	0.00	0.00	C
ATOM	133	NE2	GLN	8	2.988	44.499	16.115	0.00	0.00	N
ATOM	134	OE1	GLN	8	2.952	42.274	16.544	0.00	0.00	O
ATOM	135	H	GLN	8	7.382	40.060	15.597	0.00	0.00	H
ATOM	136	HA	GLN	8	7.553	43.029	15.668	0.00	0.00	H
ATOM	137	HB2	GLN	8	5.652	41.436	15.327	0.00	0.00	H
ATOM	138	HB3	GLN	8	5.648	41.440	17.164	0.00	0.00	H
ATOM	139	HG2	GLN	8	5.421	43.852	17.173	0.00	0.00	H
ATOM	140	HG3	GLN	8	5.461	44.004	15.405	0.00	0.00	H
ATOM	141	HE21	GLN	8	1.984	44.480	16.227	0.00	0.00	H
ATOM	142	HE22	GLN	8	3.465	45.341	15.824	0.00	0.00	H
ATOM	143	N	GLU	9	8.117	41.504	18.603	0.00	0.00	N
ATOM	144	CA	GLU	9	8.547	41.816	19.941	0.00	0.00	C
ATOM	145	C	GLU	9	9.929	42.569	19.933	0.00	0.00	C
ATOM	146	O	GLU	9	9.960	43.587	20.611	0.00	0.00	O
ATOM	147	CB	GLU	9	8.629	40.544	20.809	0.00	0.00	C
ATOM	148	CG	GLU	9	7.289	40.219	21.370	0.00	0.00	C
ATOM	149	CD	GLU	9	7.286	39.066	22.352	0.00	0.00	C
ATOM	150	OE1	GLU	9	8.280	38.862	23.051	0.00	0.00	O
ATOM	151	OE2	GLU	9	6.236	38.430	22.481	0.00	0.00	O1-
ATOM	152	H	GLU	9	7.921	40.578	18.254	0.00	0.00	H
ATOM	153	HA	GLU	9	7.869	42.534	20.400	0.00	0.00	H
ATOM	154	HB2	GLU	9	9.037	39.678	20.287	0.00	0.00	H
ATOM	155	HB3	GLU	9	9.189	40.839	21.696	0.00	0.00	H
ATOM	156	HG2	GLU	9	6.868	41.056	21.928	0.00	0.00	H
ATOM	157	HG3	GLU	9	6.531	40.096	20.596	0.00	0.00	H
ATOM	158	N	LEU	10	10.902	42.046	19.168	0.00	0.00	N
ATOM	159	CA	LEU	10	12.333	42.563	19.084	0.00	0.00	C
ATOM	160	C	LEU	10	12.218	44.081	18.701	0.00	0.00	C
ATOM	161	O	LEU	10	12.940	44.988	19.157	0.00	0.00	O
ATOM	162	CB	LEU	10	13.123	41.801	18.035	0.00	0.00	C
ATOM	163	CG	LEU	10	14.571	42.334	17.889	0.00	0.00	C
ATOM	164	CD1	LEU	10	15.239	42.369	19.232	0.00	0.00	C
ATOM	165	CD2	LEU	10	15.406	41.541	16.924	0.00	0.00	C
ATOM	166	H	LEU	10	10.770	41.239	18.575	0.00	0.00	H
ATOM	167	HA	LEU	10	12.794	42.502	20.070	0.00	0.00	H
ATOM	168	HB2	LEU	10	13.170	40.786	18.429	0.00	0.00	H
ATOM	169	HB3	LEU	10	12.734	41.822	17.016	0.00	0.00	H
ATOM	170	HG	LEU	10	14.548	43.350	17.494	0.00	0.00	H
ATOM	171	HD11	LEU	10	16.317	42.519	19.190	0.00	0.00	H
ATOM	172	HD12	LEU	10	14.834	43.172	19.846	0.00	0.00	H
ATOM	173	HD13	LEU	10	15.120	41.433	19.778	0.00	0.00	H
ATOM	174	HD21	LEU	10	15.985	40.804	17.482	0.00	0.00	H
ATOM	175	HD22	LEU	10	14.738	41.021	16.237	0.00	0.00	H
ATOM	176	HD23	LEU	10	16.065	42.185	16.342	0.00	0.00	H
ATOM	177	N	ARG	11	11.310	44.311	17.762	0.00	0.00	N
ATOM	178	CA	ARG	11	10.927	45.618	17.140	0.00	0.00	C
ATOM	179	C	ARG	11	10.429	46.574	18.220	0.00	0.00	C
ATOM	180	O	ARG	11	10.885	47.760	18.305	0.00	0.00	O
ATOM	181	CB	ARG	11	9.940	45.290	16.007	0.00	0.00	C
ATOM	182	CG	ARG	11	9.589	46.461	15.134	0.00	0.00	C
ATOM	183	CD	ARG	11	8.221	46.270	14.475	0.00	0.00	C
ATOM	184	NE	ARG	11	8.118	45.293	13.344	0.00	0.00	N
ATOM	185	CZ	ARG	11	7.012	44.754	12.890	0.00	0.00	C
ATOM	186	NH1	ARG	11	5.847	45.237	13.191	0.00	0.00	N1+
ATOM	187	NH2	ARG	11	7.053	43.736	12.181	0.00	0.00	N
ATOM	188	H	ARG	11	10.774	43.482	17.546	0.00	0.00	H
ATOM	189	HA	ARG	11	11.731	46.034	16.532	0.00	0.00	H
ATOM	190	HB2	ARG	11	10.267	44.444	15.403	0.00	0.00	H
ATOM	191	HB3	ARG	11	9.035	44.894	16.465	0.00	0.00	H
ATOM	192	HG2	ARG	11	9.507	47.436	15.615	0.00	0.00	H
ATOM	193	HG3	ARG	11	10.449	46.598	14.478	0.00	0.00	H
ATOM	194	HD2	ARG	11	7.518	45.938	15.239	0.00	0.00	H
ATOM	195	HD3	ARG	11	7.922	47.247	14.095	0.00	0.00	H
ATOM	196	HE	ARG	11	8.948	45.099	12.802	0.00	0.00	H
ATOM	197	HH11	ARG	11	5.896	46.218	13.425	0.00	0.00	H
ATOM	198	HH12	ARG	11	4.989	44.951	12.740	0.00	0.00	H
ATOM	199	HH21	ARG	11	7.893	43.180	12.251	0.00	0.00	H
ATOM	200	HH22	ARG	11	6.181	43.251	12.025	0.00	0.00	H
ATOM	201	N	ARG	12	9.425	46.101	19.072	0.00	0.00	N
ATOM	202	CA	ARG	12	8.984	46.880	20.234	0.00	0.00	C
ATOM	203	C	ARG	12	10.092	47.063	21.335	0.00	0.00	C
ATOM	204	O	ARG	12	10.101	48.200	21.888	0.00	0.00	O
ATOM	205	CB	ARG	12	7.728	46.306	20.804	0.00	0.00	C
ATOM	206	CG	ARG	12	6.559	46.724	19.900	0.00	0.00	C
ATOM	207	CD	ARG	12	5.318	45.901	20.253	0.00	0.00	C
ATOM	208	NE	ARG	12	4.197	46.302	19.455	0.00	0.00	N
ATOM	209	CZ	ARG	12	2.964	45.809	19.328	0.00	0.00	C
ATOM	210	NH1	ARG	12	2.617	44.773	19.935	0.00	0.00	N1+
ATOM	211	NH2	ARG	12	2.039	46.486	18.765	0.00	0.00	N
ATOM	212	H	ARG	12	9.219	45.115	19.015	0.00	0.00	H
ATOM	213	HA	ARG	12	8.895	47.878	19.805	0.00	0.00	H
ATOM	214	HB2	ARG	12	7.789	45.227	20.667	0.00	0.00	H
ATOM	215	HB3	ARG	12	7.529	46.611	21.832	0.00	0.00	H
ATOM	216	HG2	ARG	12	6.249	47.759	20.050	0.00	0.00	H
ATOM	217	HG3	ARG	12	6.937	46.641	18.881	0.00	0.00	H
ATOM	218	HD2	ARG	12	5.623	44.869	20.086	0.00	0.00	H
ATOM	219	HD3	ARG	12	5.062	45.882	21.312	0.00	0.00	H
ATOM	220	HE	ARG	12	4.442	47.134	18.939	0.00	0.00	H
ATOM	221	HH11	ARG	12	3.182	44.022	20.304	0.00	0.00	H
ATOM	222	HH12	ARG	12	1.629	44.719	20.137	0.00	0.00	H
ATOM	223	HH21	ARG	12	2.229	47.367	18.308	0.00	0.00	H
ATOM	224	HH22	ARG	12	1.171	46.024	18.533	0.00	0.00	H
ATOM	225	N	ILE	13	10.938	46.068	21.604	0.00	0.00	N
ATOM	226	CA	ILE	13	12.045	46.190	22.654	0.00	0.00	C
ATOM	227	C	ILE	13	13.330	46.953	22.187	0.00	0.00	C
ATOM	228	O	ILE	13	14.044	47.486	22.961	0.00	0.00	O
ATOM	229	CB	ILE	13	12.414	44.935	23.427	0.00	0.00	C

ATOM	230	CG1	ILE	13	12.985	43.871	22.426	0.00	0.00	C
ATOM	231	CG2	ILE	13	11.267	44.445	24.323	0.00	0.00	C
ATOM	232	CD1	ILE	13	13.476	42.503	22.963	0.00	0.00	C
ATOM	233	H	ILE	13	10.718	45.154	21.233	0.00	0.00	H
ATOM	234	HA	ILE	13	11.573	46.743	23.467	0.00	0.00	H
ATOM	235	HB	ILE	13	13.214	45.215	24.113	0.00	0.00	H
ATOM	236	HG12	ILE	13	12.088	43.607	21.866	0.00	0.00	H
ATOM	237	HG13	ILE	13	13.757	44.339	21.814	0.00	0.00	H
ATOM	238	HG21	ILE	13	11.057	45.257	25.020	0.00	0.00	H
ATOM	239	HG22	ILE	13	10.329	44.223	23.816	0.00	0.00	H
ATOM	240	HG23	ILE	13	11.571	43.542	24.851	0.00	0.00	H
ATOM	241	HD11	ILE	13	13.907	42.024	22.084	0.00	0.00	H
ATOM	242	HD12	ILE	13	14.252	42.522	23.728	0.00	0.00	H
ATOM	243	HD13	ILE	13	12.684	41.831	23.297	0.00	0.00	H
ATOM	244	N	GLY	14	13.378	47.119	20.864	0.00	0.00	N
ATOM	245	CA	GLY	14	14.090	48.247	20.215	0.00	0.00	C
ATOM	246	C	GLY	14	13.539	49.572	20.496	0.00	0.00	C
ATOM	247	O	GLY	14	14.217	50.435	21.052	0.00	0.00	O
ATOM	248	H	GLY	14	12.875	46.487	20.258	0.00	0.00	H
ATOM	249	HA2	GLY	14	15.103	48.297	20.614	0.00	0.00	H
ATOM	250	HA3	GLY	14	14.075	48.055	19.142	0.00	0.00	H
ATOM	251	N	ASP	15	12.251	49.810	20.277	0.00	0.00	N
ATOM	252	CA	ASP	15	11.677	51.117	20.445	0.00	0.00	C
ATOM	253	C	ASP	15	11.589	51.558	21.925	0.00	0.00	C
ATOM	254	O	ASP	15	11.682	52.751	22.218	0.00	0.00	O
ATOM	255	CB	ASP	15	10.273	51.160	19.878	0.00	0.00	C
ATOM	256	CG	ASP	15	10.240	51.286	18.363	0.00	0.00	C
ATOM	257	OD1	ASP	15	9.102	51.334	17.788	0.00	0.00	O
ATOM	258	OD2	ASP	15	11.324	51.431	17.679	0.00	0.00	O1-
ATOM	259	H	ASP	15	11.655	49.051	19.977	0.00	0.00	H
ATOM	260	HA	ASP	15	12.295	51.863	19.944	0.00	0.00	H
ATOM	261	HB2	ASP	15	9.775	50.236	20.176	0.00	0.00	H
ATOM	262	HB3	ASP	15	9.700	51.982	20.308	0.00	0.00	H
ATOM	263	N	GLU	16	11.453	50.567	22.823	0.00	0.00	N
ATOM	264	CA	GLU	16	11.346	50.714	24.325	0.00	0.00	C
ATOM	265	C	GLU	16	12.719	51.186	24.835	0.00	0.00	C
ATOM	266	O	GLU	16	12.764	52.051	25.733	0.00	0.00	O
ATOM	267	CB	GLU	16	10.805	49.425	25.037	0.00	0.00	C
ATOM	268	CG	GLU	16	10.474	49.831	26.490	0.00	0.00	C
ATOM	269	CD	GLU	16	9.824	48.666	27.251	0.00	0.00	C
ATOM	270	OE1	GLU	16	10.368	48.356	28.330	0.00	0.00	O
ATOM	271	OE2	GLU	16	8.727	48.211	26.817	0.00	0.00	O1-
ATOM	272	H	GLU	16	11.361	49.661	22.385	0.00	0.00	H
ATOM	273	HA	GLU	16	10.656	51.544	24.479	0.00	0.00	H
ATOM	274	HB2	GLU	16	9.877	49.099	24.567	0.00	0.00	H
ATOM	275	HB3	GLU	16	11.499	48.585	25.008	0.00	0.00	H
ATOM	276	HG2	GLU	16	11.374	50.229	26.960	0.00	0.00	H
ATOM	277	HG3	GLU	16	9.818	50.692	26.371	0.00	0.00	H
ATOM	278	N	PHE	17	13.816	50.595	24.351	0.00	0.00	N
ATOM	279	CA	PHE	17	15.082	51.119	24.638	0.00	0.00	C
ATOM	280	C	PHE	17	15.318	52.450	23.876	0.00	0.00	C
ATOM	281	O	PHE	17	16.129	53.247	24.353	0.00	0.00	O
ATOM	282	CB	PHE	17	16.138	49.984	24.326	0.00	0.00	C
ATOM	283	CG	PHE	17	17.522	50.246	24.828	0.00	0.00	C
ATOM	284	CD1	PHE	17	17.792	49.993	26.188	0.00	0.00	C
ATOM	285	CD2	PHE	17	18.522	50.714	23.976	0.00	0.00	C
ATOM	286	CE1	PHE	17	18.966	50.467	26.768	0.00	0.00	C
ATOM	287	CE2	PHE	17	19.745	51.053	24.547	0.00	0.00	C
ATOM	288	CZ	PHE	17	19.971	50.937	25.905	0.00	0.00	C
ATOM	289	H	PHE	17	13.685	49.955	23.581	0.00	0.00	H
ATOM	290	HA	PHE	17	15.214	51.377	25.689	0.00	0.00	H
ATOM	291	HB2	PHE	17	15.640	49.163	24.841	0.00	0.00	H
ATOM	292	HB3	PHE	17	16.153	49.957	23.237	0.00	0.00	H
ATOM	293	HD1	PHE	17	17.034	49.530	26.802	0.00	0.00	H
ATOM	294	HD2	PHE	17	18.442	50.957	22.927	0.00	0.00	H
ATOM	295	HE1	PHE	17	19.209	50.175	27.780	0.00	0.00	H
ATOM	296	HE2	PHE	17	20.498	51.617	24.017	0.00	0.00	H
ATOM	297	HZ	PHE	17	20.940	51.263	26.253	0.00	0.00	H
ATOM	298	N	ASN	18	14.625	52.794	22.744	0.00	0.00	N
ATOM	299	CA	ASN	18	14.785	54.064	22.066	0.00	0.00	C
ATOM	300	C	ASN	18	14.345	55.257	22.916	0.00	0.00	C
ATOM	301	O	ASN	18	15.020	56.291	22.933	0.00	0.00	O
ATOM	302	CB	ASN	18	14.173	54.005	20.643	0.00	0.00	C
ATOM	303	CG	ASN	18	14.614	55.182	19.776	0.00	0.00	C
ATOM	304	ND2	ASN	18	13.816	55.800	18.939	0.00	0.00	N
ATOM	305	OD1	ASN	18	15.798	55.479	19.777	0.00	0.00	O
ATOM	306	H	ASN	18	13.924	52.147	22.414	0.00	0.00	H
ATOM	307	HA	ASN	18	15.849	54.272	21.943	0.00	0.00	H
ATOM	308	HB2	ASN	18	14.316	53.067	20.107	0.00	0.00	H
ATOM	309	HB3	ASN	18	13.103	54.195	20.728	0.00	0.00	H
ATOM	310	HD21	ASN	18	14.078	56.684	18.526	0.00	0.00	H
ATOM	311	HD22	ASN	18	12.926	55.415	18.658	0.00	0.00	H
ATOM	312	N	ALA	19	13.278	55.068	23.679	0.00	0.00	N
ATOM	313	CA	ALA	19	12.747	55.979	24.658	0.00	0.00	C
ATOM	314	C	ALA	19	13.852	56.176	25.760	0.00	0.00	C
ATOM	315	O	ALA	19	13.934	57.332	26.247	0.00	0.00	O
ATOM	316	CB	ALA	19	11.412	55.510	25.202	0.00	0.00	C
ATOM	317	H	ALA	19	12.719	54.236	23.566	0.00	0.00	H
ATOM	318	HA	ALA	19	12.699	56.939	24.144	0.00	0.00	H
ATOM	319	HB1	ALA	19	11.570	54.633	25.831	0.00	0.00	H
ATOM	320	HB2	ALA	19	11.007	56.281	25.858	0.00	0.00	H
ATOM	321	HB3	ALA	19	10.662	55.176	24.486	0.00	0.00	H
ATOM	322	N	TYR	20	14.689	55.214	26.162	0.00	0.00	N
ATOM	323	CA	TYR	20	15.721	55.316	27.187	0.00	0.00	C
ATOM	324	C	TYR	20	17.035	55.945	26.702	0.00	0.00	C
ATOM	325	O	TYR	20	17.655	56.746	27.473	0.00	0.00	O
ATOM	326	CB	TYR	20	16.051	53.943	27.809	0.00	0.00	C
ATOM	327	CG	TYR	20	17.099	53.925	28.974	0.00	0.00	C
ATOM	328	CD1	TYR	20	16.728	54.396	30.213	0.00	0.00	C
ATOM	329	CD2	TYR	20	18.333	53.499	28.616	0.00	0.00	C
ATOM	330	CE1	TYR	20	17.744	54.238	31.203	0.00	0.00	C
ATOM	331	CE2	TYR	20	19.382	53.396	29.532	0.00	0.00	C
ATOM	332	CZ	TYR	20	19.058	53.759	30.868	0.00	0.00	C
ATOM	333	OH	TYR	20	20.125	53.819	31.823	0.00	0.00	O
ATOM	334	H	TYR	20	14.621	54.393	25.578	0.00	0.00	H

ATOM	335	HA	TYR	20	15.300	55.857	28.034	0.00	0.00	H
ATOM	336	HB2	TYR	20	15.090	53.595	28.186	0.00	0.00	H
ATOM	337	HB3	TYR	20	16.336	53.266	27.003	0.00	0.00	H
ATOM	338	HD1	TYR	20	15.695	54.650	30.400	0.00	0.00	H
ATOM	339	HD2	TYR	20	18.531	53.371	27.561	0.00	0.00	H
ATOM	340	HE1	TYR	20	17.578	54.507	32.236	0.00	0.00	H
ATOM	341	HE2	TYR	20	20.409	53.265	29.224	0.00	0.00	H
ATOM	342	HH	TYR	20	19.647	53.947	32.646	0.00	0.00	H
ATOM	343	N	TYR	21	17.482	55.594	25.512	0.00	0.00	N
ATOM	344	CA	TYR	21	18.611	56.255	24.838	0.00	0.00	C
ATOM	345	C	TYR	21	18.268	57.711	24.393	0.00	0.00	C
ATOM	346	O	TYR	21	19.196	58.503	24.385	0.00	0.00	O
ATOM	347	CB	TYR	21	18.995	55.333	23.677	0.00	0.00	C
ATOM	348	CG	TYR	21	20.404	55.650	23.147	0.00	0.00	C
ATOM	349	CD1	TYR	21	21.497	55.170	23.845	0.00	0.00	C
ATOM	350	CD2	TYR	21	20.504	56.295	21.918	0.00	0.00	C
ATOM	351	CE1	TYR	21	22.731	55.238	23.181	0.00	0.00	C
ATOM	352	CE2	TYR	21	21.771	56.525	21.345	0.00	0.00	C
ATOM	353	CZ	TYR	21	22.887	55.877	21.953	0.00	0.00	C
ATOM	354	OH	TYR	21	24.075	55.752	21.341	0.00	0.00	O
ATOM	355	H	TYR	21	17.117	54.772	25.053	0.00	0.00	H
ATOM	356	HA	TYR	21	19.428	56.236	25.560	0.00	0.00	H
ATOM	357	HB2	TYR	21	18.979	54.294	24.007	0.00	0.00	H
ATOM	358	HB3	TYR	21	18.270	55.451	22.871	0.00	0.00	H
ATOM	359	HD1	TYR	21	21.416	54.698	24.813	0.00	0.00	H
ATOM	360	HD2	TYR	21	19.627	56.607	21.369	0.00	0.00	H
ATOM	361	HE1	TYR	21	23.602	54.907	23.727	0.00	0.00	H
ATOM	362	HE2	TYR	21	21.880	57.005	20.383	0.00	0.00	H
ATOM	363	HH	TYR	21	24.212	56.170	20.488	0.00	0.00	H
ATOM	364	N	ALA	22	16.991	58.106	24.166	0.00	0.00	N
ATOM	365	CA	ALA	22	16.541	59.488	23.880	0.00	0.00	C
ATOM	366	C	ALA	22	16.760	60.414	25.089	0.00	0.00	C
ATOM	367	O	ALA	22	16.631	61.632	24.943	0.00	0.00	O
ATOM	368	CB	ALA	22	15.064	59.385	23.399	0.00	0.00	C
ATOM	369	H	ALA	22	16.326	57.346	24.140	0.00	0.00	H
ATOM	370	HA	ALA	22	17.115	59.825	23.016	0.00	0.00	H
ATOM	371	HB1	ALA	22	14.444	59.088	24.245	0.00	0.00	H
ATOM	372	HB2	ALA	22	14.684	60.366	23.112	0.00	0.00	H
ATOM	373	HB3	ALA	22	14.820	58.703	22.584	0.00	0.00	H
ATOM	374	N	ARG	23	17.006	59.798	26.226	0.00	0.00	N
ATOM	375	CA	ARG	23	17.323	60.492	27.477	0.00	0.00	C
ATOM	376	C	ARG	23	18.831	60.442	27.868	0.00	0.00	C
ATOM	377	O	ARG	23	19.123	61.042	28.909	0.00	0.00	O
ATOM	378	CB	ARG	23	16.511	59.773	28.573	0.00	0.00	C
ATOM	379	CG	ARG	23	16.101	60.687	29.713	0.00	0.00	C
ATOM	380	CD	ARG	23	14.914	60.093	30.538	0.00	0.00	C
ATOM	381	NE	ARG	23	14.607	61.147	31.599	0.00	0.00	N
ATOM	382	CZ	ARG	23	14.438	60.913	32.883	0.00	0.00	C
ATOM	383	NH1	ARG	23	14.611	59.809	33.563	0.00	0.00	N1+
ATOM	384	NH2	ARG	23	14.099	61.856	33.693	0.00	0.00	N
ATOM	385	H	ARG	23	17.180	58.806	26.140	0.00	0.00	H
ATOM	386	HA	ARG	23	16.920	61.503	27.422	0.00	0.00	H
ATOM	387	HB2	ARG	23	15.702	59.309	28.009	0.00	0.00	H
ATOM	388	HB3	ARG	23	17.128	58.974	28.984	0.00	0.00	H
ATOM	389	HG2	ARG	23	16.928	61.062	30.316	0.00	0.00	H
ATOM	390	HG3	ARG	23	15.774	61.634	29.282	0.00	0.00	H
ATOM	391	HD2	ARG	23	13.994	59.899	29.987	0.00	0.00	H
ATOM	392	HD3	ARG	23	15.215	59.140	30.974	0.00	0.00	H
ATOM	393	HE	ARG	23	14.514	62.083	31.231	0.00	0.00	H
ATOM	394	HH11	ARG	23	15.048	59.008	33.132	0.00	0.00	H
ATOM	395	HH12	ARG	23	14.554	59.937	34.564	0.00	0.00	H
ATOM	396	HH21	ARG	23	14.080	62.785	33.295	0.00	0.00	H
ATOM	397	HH22	ARG	23	14.146	61.770	34.699	0.00	0.00	H
ATOM	398	N	ARG	24	19.758	59.896	27.025	0.00	0.00	N
ATOM	399	CA	ARG	24	21.242	59.923	27.167	0.00	0.00	C
ATOM	400	C	ARG	24	21.805	61.319	27.509	0.00	0.00	C
ATOM	401	O	ARG	24	21.799	62.285	26.748	0.00	0.00	O
ATOM	402	CB	ARG	24	21.812	59.231	25.912	0.00	0.00	C
ATOM	403	CG	ARG	24	23.330	58.906	26.045	0.00	0.00	C
ATOM	404	CD	ARG	24	23.549	58.120	24.734	0.00	0.00	C
ATOM	405	NE	ARG	24	24.925	57.770	24.561	0.00	0.00	N
ATOM	406	CZ	ARG	24	25.780	57.855	23.564	0.00	0.00	C
ATOM	407	NH1	ARG	24	25.573	58.405	22.397	0.00	0.00	N1+
ATOM	408	NH2	ARG	24	26.894	57.163	23.665	0.00	0.00	N
ATOM	409	H	ARG	24	19.320	59.507	26.202	0.00	0.00	H
ATOM	410	HA	ARG	24	21.344	59.336	28.079	0.00	0.00	H
ATOM	411	HB2	ARG	24	21.628	59.821	25.013	0.00	0.00	H
ATOM	412	HB3	ARG	24	21.277	58.282	25.933	0.00	0.00	H
ATOM	413	HG2	ARG	24	23.645	58.307	26.899	0.00	0.00	H
ATOM	414	HG3	ARG	24	23.909	59.829	25.992	0.00	0.00	H
ATOM	415	HD2	ARG	24	23.314	58.718	23.854	0.00	0.00	H
ATOM	416	HD3	ARG	24	22.824	57.310	24.642	0.00	0.00	H
ATOM	417	HE	ARG	24	25.267	57.265	25.366	0.00	0.00	H
ATOM	418	HH11	ARG	24	24.757	58.985	22.271	0.00	0.00	H
ATOM	419	HH12	ARG	24	25.972	57.937	21.595	0.00	0.00	H
ATOM	420	HH21	ARG	24	27.038	56.612	24.499	0.00	0.00	H
ATOM	421	HH22	ARG	24	27.484	57.039	22.854	0.00	0.00	H
TER										
MOL2										
ATOM	422	N	SER	25	33.502	55.486	6.845	0.00	0.00	N
ATOM	423	CA	SER	25	32.545	56.428	7.446	0.00	0.00	C
ATOM	424	C	SER	25	31.756	57.210	6.412	0.00	0.00	C
ATOM	425	O	SER	25	30.822	57.825	6.805	0.00	0.00	O
ATOM	426	CB	SER	25	33.200	57.224	8.556	0.00	0.00	C
ATOM	427	OG	SER	25	33.737	56.368	9.472	0.00	0.00	O
ATOM	428	H	SER	25	34.438	55.374	7.210	0.00	0.00	H
ATOM	429	HA	SER	25	31.746	55.779	7.805	0.00	0.00	H
ATOM	430	HB2	SER	25	33.985	57.855	8.141	0.00	0.00	H
ATOM	431	HB3	SER	25	32.528	57.890	9.097	0.00	0.00	H
ATOM	432	HG	SER	25	34.643	56.373	9.152	0.00	0.00	H
ATOM	433	N	ALA	26	32.205	57.248	5.158	0.00	0.00	N
ATOM	434	CA	ALA	26	31.518	58.036	4.092	0.00	0.00	C
ATOM	435	C	ALA	26	30.350	57.352	3.422	0.00	0.00	C
ATOM	436	O	ALA	26	29.283	57.913	3.158	0.00	0.00	O
ATOM	437	CB	ALA	26	32.569	58.337	2.995	0.00	0.00	C

ATOM	438	H	ALA	26	33.085	56.788	4.972	0.00	0.00	H
ATOM	439	HA	ALA	26	31.200	58.998	4.494	0.00	0.00	H
ATOM	440	HB1	ALA	26	33.538	58.550	3.448	0.00	0.00	H
ATOM	441	HB2	ALA	26	32.711	57.493	2.319	0.00	0.00	H
ATOM	442	HB3	ALA	26	32.195	59.171	2.402	0.00	0.00	H
ATOM	443	N	SER	27	30.471	56.024	3.276	0.00	0.00	N
ATOM	444	CA	SER	27	29.533	55.144	2.575	0.00	0.00	C
ATOM	445	C	SER	27	29.205	54.052	3.554	0.00	0.00	C
ATOM	446	O	SER	27	29.946	53.603	4.463	0.00	0.00	O
ATOM	447	CB	SER	27	30.022	54.634	1.236	0.00	0.00	C
ATOM	448	OG	SER	27	31.103	53.784	1.334	0.00	0.00	O
ATOM	449	H	SER	27	31.220	55.519	3.728	0.00	0.00	H
ATOM	450	HA	SER	27	28.655	55.752	2.360	0.00	0.00	H
ATOM	451	HB2	SER	27	29.219	54.102	0.726	0.00	0.00	H
ATOM	452	HB3	SER	27	30.380	55.502	0.682	0.00	0.00	H
ATOM	453	HG	SER	27	31.500	53.708	0.463	0.00	0.00	H
ATOM	454	N	GLU	28	28.075	53.366	3.285	0.00	0.00	N
ATOM	455	CA	GLU	28	27.755	52.039	3.820	0.00	0.00	C
ATOM	456	C	GLU	28	28.835	50.913	3.577	0.00	0.00	C
ATOM	457	O	GLU	28	29.073	50.157	4.471	0.00	0.00	O
ATOM	458	CB	GLU	28	26.357	51.633	3.385	0.00	0.00	C
ATOM	459	CG	GLU	28	26.363	51.329	1.842	0.00	0.00	C
ATOM	460	CD	GLU	28	24.982	51.557	1.169	0.00	0.00	C
ATOM	461	OE1	GLU	28	24.149	50.651	1.285	0.00	0.00	O
ATOM	462	OE2	GLU	28	24.800	52.653	0.518	0.00	0.00	O1-
ATOM	463	H	GLU	28	27.354	53.836	2.756	0.00	0.00	H
ATOM	464	HA	GLU	28	27.656	52.130	4.901	0.00	0.00	H
ATOM	465	HB2	GLU	28	26.143	50.800	4.056	0.00	0.00	H
ATOM	466	HB3	GLU	28	25.789	52.550	3.546	0.00	0.00	H
ATOM	467	HG2	GLU	28	27.126	51.904	1.319	0.00	0.00	H
ATOM	468	HG3	GLU	28	26.622	50.282	1.681	0.00	0.00	H
ATOM	469	N	GLU	29	29.507	50.970	2.420	0.00	0.00	N
ATOM	470	CA	GLU	29	30.634	50.075	2.099	0.00	0.00	C
ATOM	471	C	GLU	29	31.845	50.399	2.923	0.00	0.00	C
ATOM	472	O	GLU	29	32.676	49.511	3.165	0.00	0.00	O
ATOM	473	CB	GLU	29	30.915	49.963	0.565	0.00	0.00	C
ATOM	474	CG	GLU	29	29.618	49.487	-0.130	0.00	0.00	C
ATOM	475	CD	GLU	29	29.750	49.363	-1.681	0.00	0.00	C
ATOM	476	OE1	GLU	29	28.924	49.998	-2.422	0.00	0.00	O
ATOM	477	OE2	GLU	29	30.685	48.659	-2.119	0.00	0.00	O1-
ATOM	478	H	GLU	29	29.339	51.677	1.719	0.00	0.00	H
ATOM	479	HA	GLU	29	30.235	49.108	2.404	0.00	0.00	H
ATOM	480	HB2	GLU	29	31.343	50.917	0.256	0.00	0.00	H
ATOM	481	HB3	GLU	29	31.687	49.233	0.323	0.00	0.00	H
ATOM	482	HG2	GLU	29	29.277	48.574	0.359	0.00	0.00	H
ATOM	483	HG3	GLU	29	28.847	50.228	0.083	0.00	0.00	H
ATOM	484	N	GLN	30	32.088	51.686	3.333	0.00	0.00	N
ATOM	485	CA	GLN	30	33.188	52.030	4.283	0.00	0.00	C
ATOM	486	C	GLN	30	32.775	51.649	5.714	0.00	0.00	C
ATOM	487	O	GLN	30	33.629	51.217	6.477	0.00	0.00	O
ATOM	488	CB	GLN	30	33.549	53.503	4.210	0.00	0.00	C
ATOM	489	CG	GLN	30	34.233	53.996	2.963	0.00	0.00	C
ATOM	490	CD	GLN	30	34.665	55.419	2.970	0.00	0.00	C
ATOM	491	NE2	GLN	30	35.281	55.831	1.911	0.00	0.00	N
ATOM	492	OE1	GLN	30	34.605	56.127	3.991	0.00	0.00	O
ATOM	493	H	GLN	30	31.485	52.431	3.019	0.00	0.00	H
ATOM	494	HA	GLN	30	34.117	51.496	4.085	0.00	0.00	H
ATOM	495	HB2	GLN	30	32.605	54.037	4.307	0.00	0.00	H
ATOM	496	HB3	GLN	30	34.327	53.701	4.948	0.00	0.00	H
ATOM	497	HG2	GLN	30	35.185	53.496	2.791	0.00	0.00	H
ATOM	498	HG3	GLN	30	33.650	53.784	2.067	0.00	0.00	H
ATOM	499	HE21	GLN	30	35.688	56.754	1.851	0.00	0.00	H
ATOM	500	HE22	GLN	30	35.389	55.088	1.236	0.00	0.00	H
ATOM	501	N	VAL	31	31.522	51.889	6.084	0.00	0.00	N
ATOM	502	CA	VAL	31	30.944	51.572	7.459	0.00	0.00	C
ATOM	503	C	VAL	31	30.999	50.073	7.725	0.00	0.00	C
ATOM	504	O	VAL	31	31.172	49.697	8.859	0.00	0.00	O
ATOM	505	CB	VAL	31	29.497	52.158	7.753	0.00	0.00	C
ATOM	506	CG1	VAL	31	28.694	51.521	8.872	0.00	0.00	C
ATOM	507	CG2	VAL	31	29.615	53.590	8.239	0.00	0.00	C
ATOM	508	H	VAL	31	30.891	52.359	5.450	0.00	0.00	H
ATOM	509	HA	VAL	31	31.623	52.070	8.150	0.00	0.00	H
ATOM	510	HB	VAL	31	28.846	52.046	6.886	0.00	0.00	H
ATOM	511	HG11	VAL	31	28.552	50.469	8.625	0.00	0.00	H
ATOM	512	HG12	VAL	31	29.267	51.483	9.798	0.00	0.00	H
ATOM	513	HG13	VAL	31	27.747	52.024	9.068	0.00	0.00	H
ATOM	514	HG21	VAL	31	30.140	54.090	7.426	0.00	0.00	H
ATOM	515	HG22	VAL	31	28.689	54.112	8.484	0.00	0.00	H
ATOM	516	HG23	VAL	31	30.283	53.679	9.097	0.00	0.00	H
ATOM	517	N	ALA	32	30.984	49.238	6.671	0.00	0.00	N
ATOM	518	CA	ALA	32	31.141	47.783	6.714	0.00	0.00	C
ATOM	519	C	ALA	32	32.507	47.365	7.234	0.00	0.00	C
ATOM	520	O	ALA	32	32.637	46.501	8.117	0.00	0.00	O
ATOM	521	CB	ALA	32	30.678	47.039	5.460	0.00	0.00	C
ATOM	522	H	ALA	32	30.683	49.662	5.806	0.00	0.00	H
ATOM	523	HA	ALA	32	30.464	47.343	7.446	0.00	0.00	H
ATOM	524	HB1	ALA	32	30.600	45.964	5.623	0.00	0.00	H
ATOM	525	HB2	ALA	32	29.675	47.305	5.129	0.00	0.00	H
ATOM	526	HB3	ALA	32	31.312	47.175	4.582	0.00	0.00	H
ATOM	527	N	GLN	33	33.576	48.088	6.774	0.00	0.00	N
ATOM	528	CA	GLN	33	34.956	47.771	7.192	0.00	0.00	C
ATOM	529	C	GLN	33	35.214	48.165	8.644	0.00	0.00	C
ATOM	530	O	GLN	33	36.126	47.644	9.289	0.00	0.00	O
ATOM	531	CB	GLN	33	35.962	48.436	6.224	0.00	0.00	C
ATOM	532	CG	GLN	33	35.752	47.919	4.743	0.00	0.00	C
ATOM	533	CD	GLN	33	36.709	48.374	3.745	0.00	0.00	C
ATOM	534	NE2	GLN	33	37.728	47.618	3.528	0.00	0.00	N
ATOM	535	OE1	GLN	33	36.545	49.420	3.149	0.00	0.00	O
ATOM	536	H	GLN	33	33.455	48.954	6.268	0.00	0.00	H
ATOM	537	HA	GLN	33	34.998	46.683	7.152	0.00	0.00	H
ATOM	538	HB2	GLN	33	35.961	49.525	6.287	0.00	0.00	H
ATOM	539	HB3	GLN	33	36.979	48.140	6.484	0.00	0.00	H
ATOM	540	HG2	GLN	33	35.875	46.838	4.807	0.00	0.00	H
ATOM	541	HG3	GLN	33	34.764	48.223	4.394	0.00	0.00	H
ATOM	542	HE21	GLN	33	38.063	46.876	4.126	0.00	0.00	H

ATOM	543	HE22	GLN	33	38.499	48.194	3.221	0.00	0.00	H
ATOM	544	N	ASP	34	34.350	48.949	9.261	0.00	0.00	N
ATOM	545	CA	ASP	34	34.460	49.277	10.713	0.00	0.00	C
ATOM	546	C	ASP	34	33.448	48.471	11.567	0.00	0.00	C
ATOM	547	O	ASP	34	33.847	48.062	12.645	0.00	0.00	O
ATOM	548	CB	ASP	34	34.175	50.712	11.013	0.00	0.00	C
ATOM	549	CG	ASP	34	35.252	51.624	10.495	0.00	0.00	C
ATOM	550	OD1	ASP	34	34.998	52.514	9.667	0.00	0.00	O
ATOM	551	OD2	ASP	34	36.450	51.482	10.869	0.00	0.00	O1-
ATOM	552	H	ASP	34	33.644	49.390	8.690	0.00	0.00	H
ATOM	553	HA	ASP	34	35.433	49.097	11.171	0.00	0.00	H
ATOM	554	HB2	ASP	34	33.222	50.956	10.544	0.00	0.00	H
ATOM	555	HB3	ASP	34	34.018	50.875	12.079	0.00	0.00	H
ATOM	556	N	THR	35	32.295	48.012	11.111	0.00	0.00	N
ATOM	557	CA	THR	35	31.356	47.122	11.812	0.00	0.00	C
ATOM	558	C	THR	35	31.951	45.822	12.241	0.00	0.00	C
ATOM	559	O	THR	35	31.658	45.380	13.315	0.00	0.00	O
ATOM	560	CB	THR	35	29.983	46.921	11.060	0.00	0.00	C
ATOM	561	CG2	THR	35	28.766	46.718	11.891	0.00	0.00	C
ATOM	562	OG1	THR	35	29.602	48.163	10.507	0.00	0.00	O
ATOM	563	H	THR	35	31.966	48.397	10.238	0.00	0.00	H
ATOM	564	HA	THR	35	31.144	47.625	12.756	0.00	0.00	H
ATOM	565	HB	THR	35	30.106	46.165	10.285	0.00	0.00	H
ATOM	566	HG1	THR	35	30.233	48.701	10.024	0.00	0.00	H
ATOM	567	HG21	THR	35	27.848	46.798	11.310	0.00	0.00	H
ATOM	568	HG22	THR	35	28.763	45.732	12.357	0.00	0.00	H
ATOM	569	HG23	THR	35	28.617	47.451	12.683	0.00	0.00	H
ATOM	570	N	GLU	36	32.831	45.190	11.461	0.00	0.00	N
ATOM	571	CA	GLU	36	33.565	44.020	11.979	0.00	0.00	C
ATOM	572	C	GLU	36	34.533	44.301	13.148	0.00	0.00	C
ATOM	573	O	GLU	36	34.605	43.508	14.088	0.00	0.00	O
ATOM	574	CB	GLU	36	34.201	43.281	10.757	0.00	0.00	C
ATOM	575	CG	GLU	36	35.253	44.136	9.991	0.00	0.00	C
ATOM	576	CD	GLU	36	35.595	43.291	8.803	0.00	0.00	C
ATOM	577	OE1	GLU	36	35.007	43.518	7.710	0.00	0.00	O
ATOM	578	OE2	GLU	36	36.407	42.336	9.011	0.00	0.00	O1-
ATOM	579	H	GLU	36	33.307	45.679	10.717	0.00	0.00	H
ATOM	580	HA	GLU	36	32.872	43.276	12.373	0.00	0.00	H
ATOM	581	HB2	GLU	36	34.624	42.360	11.157	0.00	0.00	H
ATOM	582	HB3	GLU	36	33.405	42.926	10.103	0.00	0.00	H
ATOM	583	HG2	GLU	36	34.916	45.130	9.695	0.00	0.00	H
ATOM	584	HG3	GLU	36	36.129	44.202	10.636	0.00	0.00	H
ATOM	585	N	GLU	37	35.096	45.500	13.210	0.00	0.00	N
ATOM	586	CA	GLU	37	36.031	45.845	14.271	0.00	0.00	C
ATOM	587	C	GLU	37	35.307	46.363	15.498	0.00	0.00	C
ATOM	588	O	GLU	37	35.620	45.967	16.567	0.00	0.00	O
ATOM	589	CB	GLU	37	36.958	46.910	13.815	0.00	0.00	C
ATOM	590	CG	GLU	37	38.045	47.318	14.853	0.00	0.00	C
ATOM	591	CD	GLU	37	39.353	46.648	14.598	0.00	0.00	C
ATOM	592	OE1	GLU	37	40.222	47.112	13.811	0.00	0.00	O
ATOM	593	OE2	GLU	37	39.511	45.454	14.972	0.00	0.00	O1-
ATOM	594	H	GLU	37	34.768	46.276	12.653	0.00	0.00	H
ATOM	595	HA	GLU	37	36.696	44.996	14.424	0.00	0.00	H
ATOM	596	HB2	GLU	37	37.392	46.563	12.878	0.00	0.00	H
ATOM	597	HB3	GLU	37	36.375	47.805	13.604	0.00	0.00	H
ATOM	598	HG2	GLU	37	38.330	48.366	14.759	0.00	0.00	H
ATOM	599	HG3	GLU	37	37.685	47.183	15.872	0.00	0.00	H
ATOM	600	N	VAL	38	34.299	47.218	15.348	0.00	0.00	N
ATOM	601	CA	VAL	38	33.306	47.612	16.379	0.00	0.00	C
ATOM	602	C	VAL	38	32.647	46.292	16.911	0.00	0.00	C
ATOM	603	O	VAL	38	32.626	46.079	18.077	0.00	0.00	O
ATOM	604	CB	VAL	38	32.247	48.689	15.955	0.00	0.00	C
ATOM	605	CG1	VAL	38	31.456	49.157	17.122	0.00	0.00	C
ATOM	606	CG2	VAL	38	32.976	49.890	15.362	0.00	0.00	C
ATOM	607	H	VAL	38	34.056	47.580	14.437	0.00	0.00	H
ATOM	608	HA	VAL	38	33.842	48.047	17.223	0.00	0.00	H
ATOM	609	HB	VAL	38	31.662	48.267	15.138	0.00	0.00	H
ATOM	610	HG11	VAL	38	30.710	49.875	16.784	0.00	0.00	H
ATOM	611	HG12	VAL	38	31.013	48.270	17.576	0.00	0.00	H
ATOM	612	HG13	VAL	38	32.123	49.580	17.874	0.00	0.00	H
ATOM	613	HG21	VAL	38	33.745	50.360	15.975	0.00	0.00	H
ATOM	614	HG22	VAL	38	33.527	49.601	14.467	0.00	0.00	H
ATOM	615	HG23	VAL	38	32.235	50.610	15.013	0.00	0.00	H
ATOM	616	N	PHE	39	32.188	45.348	16.084	0.00	0.00	N
ATOM	617	CA	PHE	39	31.464	44.151	16.549	0.00	0.00	C
ATOM	618	C	PHE	39	32.412	43.194	17.361	0.00	0.00	C
ATOM	619	O	PHE	39	32.176	42.799	18.497	0.00	0.00	O
ATOM	620	CB	PHE	39	30.752	43.353	15.452	0.00	0.00	C
ATOM	621	CG	PHE	39	29.915	42.238	16.049	0.00	0.00	C
ATOM	622	CD1	PHE	39	28.584	42.465	16.441	0.00	0.00	C
ATOM	623	CD2	PHE	39	30.392	40.906	15.984	0.00	0.00	C
ATOM	624	CE1	PHE	39	27.789	41.387	16.757	0.00	0.00	C
ATOM	625	CE2	PHE	39	29.642	39.778	16.326	0.00	0.00	C
ATOM	626	CZ	PHE	39	28.278	40.051	16.600	0.00	0.00	C
ATOM	627	H	PHE	39	32.251	45.540	15.095	0.00	0.00	H
ATOM	628	HA	PHE	39	30.803	44.474	17.352	0.00	0.00	H
ATOM	629	HB2	PHE	39	30.068	44.047	14.964	0.00	0.00	H
ATOM	630	HB3	PHE	39	31.528	42.975	14.786	0.00	0.00	H
ATOM	631	HD1	PHE	39	28.157	43.454	16.530	0.00	0.00	H
ATOM	632	HD2	PHE	39	31.439	40.769	15.753	0.00	0.00	H
ATOM	633	HE1	PHE	39	26.775	41.610	17.052	0.00	0.00	H
ATOM	634	HE2	PHE	39	30.087	38.797	16.397	0.00	0.00	H
ATOM	635	HZ	PHE	39	27.625	39.240	16.887	0.00	0.00	H
ATOM	636	N	ARG	40	33.648	42.918	16.848	0.00	0.00	N
ATOM	637	CA	ARG	40	34.639	42.086	17.611	0.00	0.00	C
ATOM	638	C	ARG	40	35.046	42.765	18.923	0.00	0.00	C
ATOM	639	O	ARG	40	35.155	42.009	19.904	0.00	0.00	O
ATOM	640	CB	ARG	40	35.812	41.740	16.722	0.00	0.00	C
ATOM	641	CG	ARG	40	35.528	40.618	15.755	0.00	0.00	C
ATOM	642	CD	ARG	40	36.827	40.342	14.970	0.00	0.00	C
ATOM	643	NE	ARG	40	37.121	41.134	13.815	0.00	0.00	N
ATOM	644	CZ	ARG	40	37.908	42.211	13.577	0.00	0.00	C
ATOM	645	NH1	ARG	40	38.495	42.732	14.608	0.00	0.00	N1+
ATOM	646	NH2	ARG	40	38.042	42.736	12.381	0.00	0.00	N
ATOM	647	H	ARG	40	33.878	43.432	16.009	0.00	0.00	H

ATOM	648	HA	ARG	40	34.126	41.167	17.891	0.00	0.00	H
ATOM	649	HB2	ARG	40	36.229	42.654	16.300	0.00	0.00	H
ATOM	650	HB3	ARG	40	36.478	41.316	17.472	0.00	0.00	H
ATOM	651	HG2	ARG	40	35.244	39.721	16.305	0.00	0.00	H
ATOM	652	HG3	ARG	40	34.657	40.825	15.135	0.00	0.00	H
ATOM	653	HD2	ARG	40	37.714	40.303	15.601	0.00	0.00	H
ATOM	654	HD3	ARG	40	36.746	39.314	14.615	0.00	0.00	H
ATOM	655	HE	ARG	40	36.853	40.749	12.921	0.00	0.00	H
ATOM	656	HH11	ARG	40	38.679	42.075	15.352	0.00	0.00	H
ATOM	657	HH12	ARG	40	39.031	43.587	14.551	0.00	0.00	H
ATOM	658	HH21	ARG	40	37.455	42.436	11.617	0.00	0.00	H
ATOM	659	HH22	ARG	40	38.822	43.365	12.255	0.00	0.00	H
ATOM	660	N	SER	41	35.210	44.049	18.971	0.00	0.00	N
ATOM	661	CA	SER	41	35.535	44.736	20.269	0.00	0.00	C
ATOM	662	C	SER	41	34.362	45.077	21.231	0.00	0.00	C
ATOM	663	O	SER	41	34.617	45.102	22.376	0.00	0.00	O
ATOM	664	CB	SER	41	36.385	45.971	19.981	0.00	0.00	C
ATOM	665	CG	SER	41	37.265	45.812	18.917	0.00	0.00	O
ATOM	666	H	SER	41	35.009	44.570	18.130	0.00	0.00	H
ATOM	667	HA	SER	41	36.165	44.001	20.769	0.00	0.00	H
ATOM	668	HB2	SER	41	35.664	46.743	19.713	0.00	0.00	H
ATOM	669	HB3	SER	41	37.008	46.276	20.822	0.00	0.00	H
ATOM	670	HG	SER	41	36.646	45.751	18.185	0.00	0.00	H
ATOM	671	N	TYR	42	33.080	45.052	20.786	0.00	0.00	N
ATOM	672	CA	TYR	42	31.907	44.842	21.607	0.00	0.00	C
ATOM	673	C	TYR	42	31.852	43.467	22.289	0.00	0.00	C
ATOM	674	O	TYR	42	31.738	43.375	23.484	0.00	0.00	O
ATOM	675	CB	TYR	42	30.635	45.147	20.710	0.00	0.00	C
ATOM	676	CG	TYR	42	29.270	44.720	21.173	0.00	0.00	C
ATOM	677	CD1	TYR	42	28.447	43.821	20.507	0.00	0.00	C
ATOM	678	CD2	TYR	42	28.771	45.307	22.314	0.00	0.00	C
ATOM	679	CE1	TYR	42	27.193	43.498	21.006	0.00	0.00	C
ATOM	680	CE2	TYR	42	27.520	45.033	22.826	0.00	0.00	C
ATOM	681	CZ	TYR	42	26.640	44.146	22.102	0.00	0.00	C
ATOM	682	OH	TYR	42	25.389	43.937	22.503	0.00	0.00	O
ATOM	683	H	TYR	42	32.907	45.126	19.794	0.00	0.00	H
ATOM	684	HA	TYR	42	31.929	45.535	22.447	0.00	0.00	H
ATOM	685	HB2	TYR	42	30.710	46.214	20.499	0.00	0.00	H
ATOM	686	HB3	TYR	42	30.799	44.796	19.692	0.00	0.00	H
ATOM	687	HD1	TYR	42	28.800	43.421	19.567	0.00	0.00	H
ATOM	688	HD2	TYR	42	29.362	46.012	22.880	0.00	0.00	H
ATOM	689	HE1	TYR	42	26.704	42.720	20.439	0.00	0.00	H
ATOM	690	HE2	TYR	42	27.088	45.564	23.661	0.00	0.00	H
ATOM	691	HH	TYR	42	24.847	43.270	22.077	0.00	0.00	H
ATOM	692	N	VAL	43	32.023	42.369	21.511	0.00	0.00	N
ATOM	693	CA	VAL	43	31.819	41.002	22.035	0.00	0.00	C
ATOM	694	C	VAL	43	32.867	40.617	23.046	0.00	0.00	C
ATOM	695	O	VAL	43	32.531	40.332	24.215	0.00	0.00	O
ATOM	696	CB	VAL	43	31.792	39.964	20.866	0.00	0.00	C
ATOM	697	CG1	VAL	43	31.782	38.450	21.226	0.00	0.00	C
ATOM	698	CG2	VAL	43	30.376	40.141	20.131	0.00	0.00	C
ATOM	699	H	VAL	43	32.074	42.457	20.506	0.00	0.00	H
ATOM	700	HA	VAL	43	30.818	40.898	22.454	0.00	0.00	H
ATOM	701	HB	VAL	43	32.625	40.182	20.198	0.00	0.00	H
ATOM	702	HG11	VAL	43	31.427	37.779	20.443	0.00	0.00	H
ATOM	703	HG12	VAL	43	32.786	38.277	21.617	0.00	0.00	H
ATOM	704	HG13	VAL	43	31.133	38.256	22.079	0.00	0.00	H
ATOM	705	HG21	VAL	43	29.503	40.148	20.783	0.00	0.00	H
ATOM	706	HG22	VAL	43	30.465	41.092	19.606	0.00	0.00	H
ATOM	707	HG23	VAL	43	30.257	39.263	19.496	0.00	0.00	H
ATOM	708	N	PHE	44	34.143	40.933	22.712	0.00	0.00	N
ATOM	709	CA	PHE	44	35.226	41.024	23.750	0.00	0.00	C
ATOM	710	C	PHE	44	34.960	41.895	24.987	0.00	0.00	C
ATOM	711	O	PHE	44	35.007	41.407	26.171	0.00	0.00	O
ATOM	712	CB	PHE	44	36.497	41.442	23.077	0.00	0.00	C
ATOM	713	CG	PHE	44	37.731	41.754	23.880	0.00	0.00	C
ATOM	714	CD1	PHE	44	38.434	40.632	24.359	0.00	0.00	C
ATOM	715	CD2	PHE	44	38.218	43.072	23.996	0.00	0.00	C
ATOM	716	CE1	PHE	44	39.649	40.842	25.079	0.00	0.00	C
ATOM	717	CE2	PHE	44	39.408	43.263	24.729	0.00	0.00	C
ATOM	718	CZ	PHE	44	40.121	42.180	25.298	0.00	0.00	C
ATOM	719	H	PHE	44	34.380	41.284	21.794	0.00	0.00	H
ATOM	720	HA	PHE	44	35.463	40.051	24.181	0.00	0.00	H
ATOM	721	HB2	PHE	44	36.805	40.621	22.431	0.00	0.00	H
ATOM	722	HB3	PHE	44	36.228	42.320	22.490	0.00	0.00	H
ATOM	723	HD1	PHE	44	38.083	39.616	24.259	0.00	0.00	H
ATOM	724	HD2	PHE	44	37.576	43.849	23.611	0.00	0.00	H
ATOM	725	HE1	PHE	44	40.227	39.990	25.404	0.00	0.00	H
ATOM	726	HE2	PHE	44	39.727	44.277	24.915	0.00	0.00	H
ATOM	727	HZ	PHE	44	41.056	42.407	25.789	0.00	0.00	H
ATOM	728	N	TYR	45	34.715	43.253	24.850	0.00	0.00	N
ATOM	729	CA	TYR	45	34.548	44.051	26.085	0.00	0.00	C
ATOM	730	C	TYR	45	33.297	43.696	26.912	0.00	0.00	C
ATOM	731	O	TYR	45	33.364	43.821	28.113	0.00	0.00	O
ATOM	732	CB	TYR	45	34.565	45.588	25.711	0.00	0.00	C
ATOM	733	CG	TYR	45	35.965	46.199	25.507	0.00	0.00	C
ATOM	734	CD1	TYR	45	36.900	46.067	26.534	0.00	0.00	C
ATOM	735	CD2	TYR	45	36.414	46.784	24.286	0.00	0.00	C
ATOM	736	CE1	TYR	45	38.273	46.433	26.440	0.00	0.00	C
ATOM	737	CE2	TYR	45	37.750	47.177	24.138	0.00	0.00	C
ATOM	738	CZ	TYR	45	38.661	47.006	25.201	0.00	0.00	C
ATOM	739	OH	TYR	45	39.931	47.536	25.108	0.00	0.00	O
ATOM	740	H	TYR	45	34.797	43.717	23.956	0.00	0.00	H
ATOM	741	HA	TYR	45	35.427	43.757	26.659	0.00	0.00	H
ATOM	742	HB2	TYR	45	33.970	45.733	24.809	0.00	0.00	H
ATOM	743	HB3	TYR	45	34.059	46.227	26.435	0.00	0.00	H
ATOM	744	HD1	TYR	45	36.624	45.675	27.501	0.00	0.00	H
ATOM	745	HD2	TYR	45	35.689	46.872	23.491	0.00	0.00	H
ATOM	746	HE1	TYR	45	38.962	46.361	27.267	0.00	0.00	H
ATOM	747	HE2	TYR	45	38.099	47.547	23.186	0.00	0.00	H
ATOM	748	HH	TYR	45	40.416	47.322	25.907	0.00	0.00	H
ATOM	749	N	ARG	46	32.240	43.240	26.256	0.00	0.00	N
ATOM	750	CA	ARG	46	31.042	42.694	26.839	0.00	0.00	C
ATOM	751	C	ARG	46	31.233	41.373	27.688	0.00	0.00	C
ATOM	752	O	ARG	46	31.156	41.403	28.924	0.00	0.00	O

ATOM	753	CB	ARG	46	29.893	42.800	25.847	0.00	0.00	C
ATOM	754	CG	ARG	46	28.486	42.823	26.507	0.00	0.00	C
ATOM	755	CD	ARG	46	28.123	44.149	27.287	0.00	0.00	C
ATOM	756	NE	ARG	46	27.013	43.895	28.229	0.00	0.00	N
ATOM	757	CZ	ARG	46	27.154	43.607	29.498	0.00	0.00	C
ATOM	758	NH1	ARG	46	28.245	43.736	30.177	0.00	0.00	N1+
ATOM	759	NH2	ARG	46	26.128	43.076	30.170	0.00	0.00	N
ATOM	760	H	ARG	46	32.192	43.225	25.247	0.00	0.00	H
ATOM	761	HA	ARG	46	30.783	43.408	27.622	0.00	0.00	H
ATOM	762	HB2	ARG	46	29.914	43.640	25.152	0.00	0.00	H
ATOM	763	HB3	ARG	46	30.002	41.941	25.186	0.00	0.00	H
ATOM	764	HG2	ARG	46	27.594	42.700	25.893	0.00	0.00	H
ATOM	765	HG3	ARG	46	28.494	41.945	27.152	0.00	0.00	H
ATOM	766	HD2	ARG	46	29.007	44.552	27.781	0.00	0.00	H
ATOM	767	HD3	ARG	46	27.790	44.861	26.532	0.00	0.00	H
ATOM	768	HE	ARG	46	26.057	43.939	27.906	0.00	0.00	H
ATOM	769	HH11	ARG	46	28.879	44.449	29.846	0.00	0.00	H
ATOM	770	HH12	ARG	46	28.332	43.298	31.083	0.00	0.00	H
ATOM	771	HH21	ARG	46	25.241	42.887	29.726	0.00	0.00	H
ATOM	772	HH22	ARG	46	26.197	42.934	31.168	0.00	0.00	H
ATOM	773	N	HIP	47	31.698	40.314	27.088	0.00	0.00	N
ATOM	774	CA	HIP	47	32.224	39.072	27.843	0.00	0.00	C
ATOM	775	C	HIP	47	33.433	39.320	28.829	0.00	0.00	C
ATOM	776	O	HIP	47	33.388	38.664	29.860	0.00	0.00	O
ATOM	777	CB	HIP	47	32.581	38.065	26.797	0.00	0.00	C
ATOM	778	CG	HIP	47	32.967	36.742	27.263	0.00	0.00	C
ATOM	779	CD2	HIP	47	34.029	36.019	26.874	0.00	0.00	C
ATOM	780	ND1	HIP	47	32.122	35.889	28.006	0.00	0.00	N1+
ATOM	781	CE1	HIP	47	32.707	34.734	28.053	0.00	0.00	C
ATOM	782	NE2	HIP	47	33.906	34.754	27.366	0.00	0.00	N
ATOM	783	H	HIP	47	31.832	40.382	26.089	0.00	0.00	H
ATOM	784	HA	HIP	47	31.460	38.626	28.479	0.00	0.00	H
ATOM	785	HB2	HIP	47	31.725	37.858	26.154	0.00	0.00	H
ATOM	786	HB3	HIP	47	33.344	38.438	26.114	0.00	0.00	H
ATOM	787	HD1	HIP	47	31.324	36.175	28.555	0.00	0.00	H
ATOM	788	HD2	HIP	47	34.843	36.269	26.210	0.00	0.00	H
ATOM	789	HE1	HIP	47	32.428	33.940	28.730	0.00	0.00	H
ATOM	790	HE2	HIP	47	34.510	33.945	27.331	0.00	0.00	H
ATOM	791	N	GLN	48	34.312	40.271	28.569	0.00	0.00	N
ATOM	792	CA	GLN	48	35.343	40.749	29.544	0.00	0.00	C
ATOM	793	C	GLN	48	34.759	41.440	30.766	0.00	0.00	C
ATOM	794	O	GLN	48	35.077	41.059	31.901	0.00	0.00	O
ATOM	795	CB	GLN	48	36.331	41.678	28.889	0.00	0.00	C
ATOM	796	CG	GLN	48	37.444	42.197	29.855	0.00	0.00	C
ATOM	797	CD	GLN	48	38.449	41.111	30.248	0.00	0.00	C
ATOM	798	NE2	GLN	48	39.467	41.491	31.019	0.00	0.00	N
ATOM	799	OE1	GLN	48	38.380	39.978	29.806	0.00	0.00	O
ATOM	800	H	GLN	48	34.424	40.536	27.601	0.00	0.00	H
ATOM	801	HA	GLN	48	35.866	39.854	29.880	0.00	0.00	H
ATOM	802	HB2	GLN	48	36.786	41.309	27.969	0.00	0.00	H
ATOM	803	HB3	GLN	48	35.784	42.553	28.536	0.00	0.00	H
ATOM	804	HG2	GLN	48	38.013	42.961	29.326	0.00	0.00	H
ATOM	805	HG3	GLN	48	36.941	42.720	30.668	0.00	0.00	H
ATOM	806	HE21	GLN	48	39.903	40.673	31.421	0.00	0.00	H
ATOM	807	HE22	GLN	48	39.649	42.385	31.453	0.00	0.00	H
ATOM	808	N	GLU	49	33.863	42.411	30.620	0.00	0.00	N
ATOM	809	CA	GLU	49	33.101	42.998	31.714	0.00	0.00	C
ATOM	810	C	GLU	49	32.263	41.963	32.526	0.00	0.00	C
ATOM	811	O	GLU	49	32.215	42.044	33.739	0.00	0.00	O
ATOM	812	CB	GLU	49	32.185	44.039	31.204	0.00	0.00	C
ATOM	813	CG	GLU	49	31.258	44.739	32.164	0.00	0.00	C
ATOM	814	CD	GLU	49	31.977	45.531	33.238	0.00	0.00	C
ATOM	815	NE2	GLU	49	32.494	44.944	34.236	0.00	0.00	N
ATOM	816	OE1	GLU	49	32.065	46.768	33.157	0.00	0.00	O
ATOM	817	H	GLU	49	33.452	42.638	29.726	0.00	0.00	H
ATOM	818	HA	GLU	49	33.718	43.527	32.439	0.00	0.00	H
ATOM	819	HB2	GLU	49	32.806	44.812	30.753	0.00	0.00	H
ATOM	820	HB3	GLU	49	31.546	43.610	30.433	0.00	0.00	H
ATOM	821	HG2	GLU	49	30.544	45.370	31.635	0.00	0.00	H
ATOM	822	HG3	GLU	49	30.560	44.041	32.627	0.00	0.00	H
ATOM	823	HE21	GLU	49	32.592	45.606	34.993	0.00	0.00	H
ATOM	824	HE22	GLU	49	32.426	43.952	34.413	0.00	0.00	H
ATOM	825	N	GLU	50	31.542	41.017	31.860	0.00	0.00	N
ATOM	826	CA	GLU	50	30.670	40.013	32.591	0.00	0.00	C
ATOM	827	C	GLU	50	31.545	38.863	33.200	0.00	0.00	C
ATOM	828	O	GLU	50	31.083	38.172	34.083	0.00	0.00	O
ATOM	829	CB	GLU	50	29.631	39.345	31.659	0.00	0.00	C
ATOM	830	CG	GLU	50	28.617	40.312	30.962	0.00	0.00	C
ATOM	831	CD	GLU	50	27.632	39.459	30.180	0.00	0.00	C
ATOM	832	OE1	GLU	50	28.021	38.976	29.081	0.00	0.00	O
ATOM	833	OE2	GLU	50	26.517	39.150	30.717	0.00	0.00	O1-
ATOM	834	H	GLU	50	31.492	41.019	30.851	0.00	0.00	H
ATOM	835	HA	GLU	50	30.045	40.483	33.350	0.00	0.00	H
ATOM	836	HB2	GLU	50	30.083	38.822	30.816	0.00	0.00	H
ATOM	837	HB3	GLU	50	29.065	38.580	32.191	0.00	0.00	H
ATOM	838	HG2	GLU	50	28.041	40.781	31.759	0.00	0.00	H
ATOM	839	HG3	GLU	50	29.114	41.053	30.336	0.00	0.00	H
ATOM	840	N	GLN	51	32.823	38.815	32.862	0.00	0.00	N
ATOM	841	CA	GLN	51	33.783	38.056	33.603	0.00	0.00	C
ATOM	842	C	GLN	51	34.152	38.937	34.853	0.00	0.00	C
ATOM	843	O	GLN	51	34.003	38.481	35.966	0.00	0.00	O
ATOM	844	CB	GLN	51	35.020	37.622	32.849	0.00	0.00	C
ATOM	845	CG	GLN	51	34.794	36.507	31.878	0.00	0.00	C
ATOM	846	CD	GLN	51	36.081	36.215	31.021	0.00	0.00	C
ATOM	847	NE2	GLN	51	36.065	36.093	29.757	0.00	0.00	N
ATOM	848	OE1	GLN	51	37.095	35.618	31.417	0.00	0.00	O
ATOM	849	H	GLN	51	33.239	39.376	32.132	0.00	0.00	H
ATOM	850	HA	GLN	51	33.222	37.193	33.963	0.00	0.00	H
ATOM	851	HB2	GLN	51	35.355	38.489	32.278	0.00	0.00	H
ATOM	852	HB3	GLN	51	35.795	37.362	33.569	0.00	0.00	H
ATOM	853	HG2	GLN	51	34.556	35.552	32.346	0.00	0.00	H
ATOM	854	HG3	GLN	51	33.938	36.694	31.229	0.00	0.00	H
ATOM	855	HE21	GLN	51	36.941	36.597	29.262	0.00	0.00	H
ATOM	856	HE22	GLN	51	35.223	37.008	29.298	0.00	0.00	H
ATOM	857	N	GLU	52	34.573	40.215	34.564	0.00	0.00	N

ATOM	858	CA	GLU	52	35.061	41.060	35.683	0.00	0.00	C
ATOM	859	C	GLU	52	34.001	41.251	36.747	0.00	0.00	C
ATOM	860	O	GLU	52	34.298	41.464	37.909	0.00	0.00	O
ATOM	861	CB	GLU	52	35.714	42.289	35.076	0.00	0.00	C
ATOM	862	CG	GLU	52	36.234	43.251	36.125	0.00	0.00	C
ATOM	863	CD	GLU	52	36.753	44.564	35.538	0.00	0.00	C
ATOM	864	OE1	GLU	52	38.003	44.681	35.482	0.00	0.00	O
ATOM	865	OE2	GLU	52	36.077	45.545	35.371	0.00	0.00	O1-
ATOM	866	H	GLU	52	34.642	40.734	33.702	0.00	0.00	H
ATOM	867	HA	GLU	52	35.833	40.511	36.222	0.00	0.00	H
ATOM	868	HB2	GLU	52	36.536	41.986	34.429	0.00	0.00	H
ATOM	869	HB3	GLU	52	34.990	42.740	34.397	0.00	0.00	H
ATOM	870	HG2	GLU	52	35.482	43.524	36.865	0.00	0.00	H
ATOM	871	HG3	GLU	52	37.117	42.851	36.623	0.00	0.00	H
ATOM	872	N	ALA	53	32.699	41.264	36.363	0.00	0.00	N
ATOM	873	CA	ALA	53	31.611	41.467	37.306	0.00	0.00	C
ATOM	874	C	ALA	53	31.420	40.372	38.380	0.00	0.00	C
ATOM	875	O	ALA	53	30.666	40.498	39.389	0.00	0.00	O
ATOM	876	CB	ALA	53	30.294	41.593	36.560	0.00	0.00	C
ATOM	877	H	ALA	53	32.437	41.124	35.398	0.00	0.00	H
ATOM	878	HA	ALA	53	31.670	42.460	37.749	0.00	0.00	H
ATOM	879	HB1	ALA	53	30.360	42.293	35.728	0.00	0.00	H
ATOM	880	HB2	ALA	53	29.973	40.622	36.184	0.00	0.00	H
ATOM	881	HB3	ALA	53	29.475	42.038	37.125	0.00	0.00	H
ATOM	882	N	GLU	54	32.164	39.223	38.339	0.00	0.00	N
ATOM	883	CA	GLU	54	32.158	38.141	39.377	0.00	0.00	C
ATOM	884	C	GLU	54	32.962	38.489	40.668	0.00	0.00	C
ATOM	885	O	GLU	54	33.008	37.709	41.619	0.00	0.00	O
ATOM	886	CB	GLU	54	32.773	36.912	38.725	0.00	0.00	C
ATOM	887	CG	GLU	54	32.049	36.124	37.639	0.00	0.00	C
ATOM	888	CD	GLU	54	30.798	35.606	38.299	0.00	0.00	C
ATOM	889	OE1	GLU	54	29.720	36.057	37.883	0.00	0.00	O
ATOM	890	OE2	GLU	54	30.807	34.795	39.241	0.00	0.00	O1-
ATOM	891	H	GLU	54	32.761	39.129	37.530	0.00	0.00	H
ATOM	892	HA	GLU	54	31.121	38.100	39.710	0.00	0.00	H
ATOM	893	HB2	GLU	54	33.698	37.272	38.276	0.00	0.00	H
ATOM	894	HB3	GLU	54	32.949	36.216	39.545	0.00	0.00	H
ATOM	895	HG2	GLU	54	31.905	36.820	36.813	0.00	0.00	H
ATOM	896	HG3	GLU	54	32.755	35.346	37.349	0.00	0.00	H
ATOM	897	N	GLY	55	33.635	39.683	40.701	0.00	0.00	N
ATOM	898	CA	GLY	55	34.571	40.054	41.776	0.00	0.00	C
ATOM	899	C	GLY	55	35.930	39.356	41.589	0.00	0.00	C
ATOM	900	O	GLY	55	36.685	39.227	42.563	0.00	0.00	O
ATOM	901	H	GLY	55	33.596	40.349	39.942	0.00	0.00	H
ATOM	902	HA2	GLY	55	34.647	41.129	41.611	0.00	0.00	H
ATOM	903	HA3	GLY	55	34.079	39.856	42.728	0.00	0.00	H
ATOM	904	N	VAL	56	36.276	38.816	40.402	0.00	0.00	N
ATOM	905	CA	VAL	56	37.576	38.229	40.094	0.00	0.00	C
ATOM	906	C	VAL	56	38.568	39.253	39.463	0.00	0.00	C
ATOM	907	O	VAL	56	38.133	40.049	38.645	0.00	0.00	O
ATOM	908	CB	VAL	56	37.462	37.021	39.163	0.00	0.00	C
ATOM	909	CG1	VAL	56	36.615	35.886	39.822	0.00	0.00	C
ATOM	910	CG2	VAL	56	36.779	37.410	37.811	0.00	0.00	C
ATOM	911	H	VAL	56	35.570	38.767	39.681	0.00	0.00	H
ATOM	912	HA	VAL	56	38.040	37.820	40.991	0.00	0.00	H
ATOM	913	HB	VAL	56	38.454	36.611	38.973	0.00	0.00	H
ATOM	914	HG11	VAL	56	36.434	35.058	39.137	0.00	0.00	H
ATOM	915	HG12	VAL	56	37.053	35.449	40.720	0.00	0.00	H
ATOM	916	HG13	VAL	56	35.623	36.306	39.987	0.00	0.00	H
ATOM	917	HG21	VAL	56	36.530	36.468	37.321	0.00	0.00	H
ATOM	918	HG22	VAL	56	35.890	38.031	37.918	0.00	0.00	H
ATOM	919	HG23	VAL	56	37.524	38.014	37.296	0.00	0.00	H
ATOM	920	N	ALA	57	39.834	39.297	39.850	0.00	0.00	N
ATOM	921	CA	ALA	57	40.844	40.240	39.462	0.00	0.00	C
ATOM	922	C	ALA	57	41.581	39.678	38.216	0.00	0.00	C
ATOM	923	O	ALA	57	41.805	38.481	38.058	0.00	0.00	O
ATOM	924	CB	ALA	57	41.774	40.583	40.622	0.00	0.00	C
ATOM	925	H	ALA	57	40.117	38.673	40.592	0.00	0.00	H
ATOM	926	HA	ALA	57	40.302	41.108	39.084	0.00	0.00	H
ATOM	927	HB1	ALA	57	42.224	39.647	40.953	0.00	0.00	H
ATOM	928	HB2	ALA	57	42.443	41.384	40.306	0.00	0.00	H
ATOM	929	HB3	ALA	57	41.207	41.063	41.419	0.00	0.00	H
ATOM	930	N	ALA	58	41.861	40.533	37.208	0.00	0.00	N
ATOM	931	CA	ALA	58	42.565	40.168	35.957	0.00	0.00	C
ATOM	932	C	ALA	58	41.858	39.043	35.060	0.00	0.00	C
ATOM	933	O	ALA	58	42.589	38.163	34.610	0.00	0.00	O
ATOM	934	CB	ALA	58	44.019	40.022	36.262	0.00	0.00	C
ATOM	935	H	ALA	58	41.718	41.514	37.404	0.00	0.00	H
ATOM	936	HA	ALA	58	42.624	41.103	35.399	0.00	0.00	H
ATOM	937	HB1	ALA	58	44.438	39.944	35.258	0.00	0.00	H
ATOM	938	HB2	ALA	58	44.226	39.103	36.810	0.00	0.00	H
ATOM	939	HB3	ALA	58	44.463	40.868	36.786	0.00	0.00	H
ATOM	940	N	PRO	59	40.513	38.973	34.790	0.00	0.00	N
ATOM	941	CA	PRO	59	39.875	37.948	33.950	0.00	0.00	C
ATOM	942	C	PRO	59	40.349	38.026	32.464	0.00	0.00	C
ATOM	943	O	PRO	59	40.577	39.087	31.916	0.00	0.00	O
ATOM	944	CB	PRO	59	38.364	38.136	34.014	0.00	0.00	C
ATOM	945	CG	PRO	59	38.206	39.595	34.374	0.00	0.00	C
ATOM	946	CD	PRO	59	39.516	39.943	35.127	0.00	0.00	C
ATOM	947	HA	PRO	59	40.120	36.961	34.344	0.00	0.00	H
ATOM	948	HB2	PRO	59	38.004	37.460	34.790	0.00	0.00	H
ATOM	949	HB3	PRO	59	37.875	38.034	33.046	0.00	0.00	H
ATOM	950	HG2	PRO	59	38.114	40.126	33.426	0.00	0.00	H
ATOM	951	HG3	PRO	59	37.310	39.721	34.982	0.00	0.00	H
ATOM	952	HD2	PRO	59	39.712	40.984	34.865	0.00	0.00	H
ATOM	953	HD3	PRO	59	39.498	39.872	36.214	0.00	0.00	H
ATOM	954	N	ALA	60	40.411	36.856	31.792	0.00	0.00	N
ATOM	955	CA	ALA	60	40.855	36.579	30.422	0.00	0.00	C
ATOM	956	C	ALA	60	40.209	35.345	29.909	0.00	0.00	C
ATOM	957	O	ALA	60	40.379	34.263	30.488	0.00	0.00	O
ATOM	958	CB	ALA	60	42.377	36.480	30.490	0.00	0.00	C
ATOM	959	H	ALA	60	40.133	36.068	32.359	0.00	0.00	H
ATOM	960	HA	ALA	60	40.475	37.412	29.831	0.00	0.00	H
ATOM	961	HB1	ALA	60	42.611	35.880	31.370	0.00	0.00	H
ATOM	962	HB2	ALA	60	42.693	36.087	29.524	0.00	0.00	H

ATOM	963	HB3	ALA	60	42.866	37.448	30.596	0.00	0.00	H
ATOM	964	N	ASP	61	39.513	35.396	28.813	0.00	0.00	N
ATOM	965	CA	ASP	61	39.008	34.204	28.052	0.00	0.00	C
ATOM	966	C	ASP	61	40.101	33.646	27.146	0.00	0.00	C
ATOM	967	O	ASP	61	40.559	34.329	26.172	0.00	0.00	O
ATOM	968	CB	ASP	61	37.646	34.446	27.314	0.00	0.00	C
ATOM	969	CG	ASP	61	37.004	33.270	26.721	0.00	0.00	C
ATOM	970	OD1	ASP	61	35.927	32.927	27.237	0.00	0.00	O
ATOM	971	OD2	ASP	61	37.614	32.674	25.796	0.00	0.00	O1-
ATOM	972	H	ASP	61	39.278	36.288	28.403	0.00	0.00	H
ATOM	973	HA	ASP	61	38.737	33.451	28.792	0.00	0.00	H
ATOM	974	HB2	ASP	61	36.882	34.879	27.959	0.00	0.00	H
ATOM	975	HB3	ASP	61	37.934	35.099	26.489	0.00	0.00	H
ATOM	976	N	PRO	62	40.581	32.428	27.381	0.00	0.00	N
ATOM	977	CA	PRO	62	41.890	32.031	26.826	0.00	0.00	C
ATOM	978	C	PRO	62	41.725	31.538	25.428	0.00	0.00	C
ATOM	979	O	PRO	62	42.701	31.094	24.800	0.00	0.00	O
ATOM	980	CB	PRO	62	42.347	30.904	27.788	0.00	0.00	C
ATOM	981	CG	PRO	62	41.068	30.408	28.456	0.00	0.00	C
ATOM	982	CD	PRO	62	40.232	31.619	28.553	0.00	0.00	C
ATOM	983	HA	PRO	62	42.622	32.834	26.921	0.00	0.00	H
ATOM	984	HB2	PRO	62	42.932	31.423	28.547	0.00	0.00	H
ATOM	985	HB3	PRO	62	42.983	30.161	27.307	0.00	0.00	H
ATOM	986	HG2	PRO	62	40.584	29.732	27.752	0.00	0.00	H
ATOM	987	HG3	PRO	62	41.242	29.982	29.443	0.00	0.00	H
ATOM	988	HD2	PRO	62	39.171	31.373	28.572	0.00	0.00	H
ATOM	989	HD3	PRO	62	40.452	32.156	29.475	0.00	0.00	H
ATOM	990	N	GLU	63	40.542	31.494	24.879	0.00	0.00	N
ATOM	991	CA	GLU	63	40.161	31.030	23.570	0.00	0.00	C
ATOM	992	C	GLU	63	39.884	32.259	22.630	0.00	0.00	C
ATOM	993	O	GLU	63	40.179	32.105	21.442	0.00	0.00	O
ATOM	994	CB	GLU	63	38.914	30.068	23.730	0.00	0.00	C
ATOM	995	CG	GLU	63	39.265	28.744	24.404	0.00	0.00	C
ATOM	996	CD	GLU	63	38.189	27.683	24.070	0.00	0.00	C
ATOM	997	OE1	GLU	63	38.062	27.396	22.865	0.00	0.00	O
ATOM	998	OE2	GLU	63	37.608	27.061	24.954	0.00	0.00	O1-
ATOM	999	H	GLU	63	39.781	31.707	25.509	0.00	0.00	H
ATOM	1000	HA	GLU	63	40.911	30.382	23.117	0.00	0.00	H
ATOM	1001	HB2	GLU	63	38.098	30.504	24.306	0.00	0.00	H
ATOM	1002	HB3	GLU	63	38.759	29.886	22.667	0.00	0.00	H
ATOM	1003	HG2	GLU	63	40.274	28.419	24.149	0.00	0.00	H
ATOM	1004	HG3	GLU	63	39.357	28.957	25.468	0.00	0.00	H
ATOM	1005	N	MET	64	39.622	33.451	23.195	0.00	0.00	N
ATOM	1006	CA	MET	64	39.474	34.720	22.470	0.00	0.00	C
ATOM	1007	C	MET	64	40.813	35.108	21.809	0.00	0.00	C
ATOM	1008	O	MET	64	40.854	35.919	20.882	0.00	0.00	O
ATOM	1009	CB	MET	64	38.949	35.828	23.441	0.00	0.00	C
ATOM	1010	CG	MET	64	38.132	36.973	22.830	0.00	0.00	C
ATOM	1011	SD	MET	64	36.595	36.554	21.964	0.00	0.00	S
ATOM	1012	CE	MET	64	35.515	36.170	23.381	0.00	0.00	C
ATOM	1013	H	MET	64	39.496	33.496	24.196	0.00	0.00	H
ATOM	1014	HA	MET	64	38.705	34.631	21.701	0.00	0.00	H
ATOM	1015	HB2	MET	64	38.406	35.403	24.285	0.00	0.00	H
ATOM	1016	HB3	MET	64	39.830	36.260	23.917	0.00	0.00	H
ATOM	1017	HG2	MET	64	37.874	37.591	23.689	0.00	0.00	H
ATOM	1018	HG3	MET	64	38.844	37.558	22.247	0.00	0.00	H
ATOM	1019	HE1	MET	64	35.281	37.099	23.899	0.00	0.00	H
ATOM	1020	HE2	MET	64	34.661	35.595	23.023	0.00	0.00	H
ATOM	1021	HE3	MET	64	36.200	35.630	24.034	0.00	0.00	H
ATOM	1022	N	VAL	65	41.912	34.480	22.193	0.00	0.00	N
ATOM	1023	CA	VAL	65	43.200	34.503	21.457	0.00	0.00	C
ATOM	1024	C	VAL	65	43.082	34.248	19.939	0.00	0.00	C
ATOM	1025	O	VAL	65	43.815	34.829	19.181	0.00	0.00	O
ATOM	1026	CB	VAL	65	44.179	33.457	21.970	0.00	0.00	C
ATOM	1027	CG1	VAL	65	44.561	33.770	23.417	0.00	0.00	C
ATOM	1028	CG2	VAL	65	43.754	31.985	21.905	0.00	0.00	C
ATOM	1029	H	VAL	65	41.823	33.822	22.953	0.00	0.00	H
ATOM	1030	HA	VAL	65	43.446	35.542	21.673	0.00	0.00	H
ATOM	1031	HB	VAL	65	45.095	33.527	21.385	0.00	0.00	H
ATOM	1032	HG11	VAL	65	45.461	33.204	23.658	0.00	0.00	H
ATOM	1033	HG12	VAL	65	43.856	33.444	24.181	0.00	0.00	H
ATOM	1034	HG13	VAL	65	44.729	34.845	23.487	0.00	0.00	H
ATOM	1035	HG21	VAL	65	44.342	31.401	22.614	0.00	0.00	H
ATOM	1036	HG22	VAL	65	42.737	31.871	22.281	0.00	0.00	H
ATOM	1037	HG23	VAL	65	43.884	31.542	20.919	0.00	0.00	H
ATOM	1038	N	THR	66	42.066	33.413	19.605	0.00	0.00	N
ATOM	1039	CA	THR	66	41.745	32.976	18.244	0.00	0.00	C
ATOM	1040	C	THR	66	41.152	34.087	17.430	0.00	0.00	C
ATOM	1041	O	THR	66	41.237	34.084	16.181	0.00	0.00	O
ATOM	1042	CB	THR	66	40.705	31.857	18.199	0.00	0.00	C
ATOM	1043	CG2	THR	66	41.248	30.596	18.754	0.00	0.00	C
ATOM	1044	OG1	THR	66	39.495	32.178	18.866	0.00	0.00	O
ATOM	1045	H	THR	66	41.598	32.951	20.371	0.00	0.00	H
ATOM	1046	HA	THR	66	42.640	32.720	17.676	0.00	0.00	H
ATOM	1047	HB	THR	66	40.489	31.599	17.161	0.00	0.00	H
ATOM	1048	HG1	THR	66	39.541	31.863	19.772	0.00	0.00	H
ATOM	1049	HG21	THR	66	42.054	30.236	18.116	0.00	0.00	H
ATOM	1050	HG22	THR	66	41.594	30.688	19.783	0.00	0.00	H
ATOM	1051	HG23	THR	66	40.429	29.889	18.891	0.00	0.00	H
ATOM	1052	N	LEU	67	40.592	35.134	18.085	0.00	0.00	N
ATOM	1053	CA	LEU	67	39.851	36.297	17.469	0.00	0.00	C
ATOM	1054	C	LEU	67	40.820	37.366	17.002	0.00	0.00	C
ATOM	1055	O	LEU	67	41.658	37.844	17.758	0.00	0.00	O
ATOM	1056	CB	LEU	67	38.753	36.855	18.453	0.00	0.00	C
ATOM	1057	CG	LEU	67	37.597	37.645	17.745	0.00	0.00	C
ATOM	1058	CD1	LEU	67	36.720	36.758	16.884	0.00	0.00	C
ATOM	1059	CD2	LEU	67	36.574	38.154	18.828	0.00	0.00	C
ATOM	1060	H	LEU	67	40.639	35.166	19.094	0.00	0.00	H
ATOM	1061	HA	LEU	67	39.389	35.851	16.588	0.00	0.00	H
ATOM	1062	HB2	LEU	67	38.260	36.064	19.019	0.00	0.00	H
ATOM	1063	HB3	LEU	67	39.212	37.556	19.149	0.00	0.00	H
ATOM	1064	HG	LEU	67	37.972	38.489	17.166	0.00	0.00	H
ATOM	1065	HD11	LEU	67	35.797	37.241	16.562	0.00	0.00	H
ATOM	1066	HD12	LEU	67	37.265	36.496	15.977	0.00	0.00	H
ATOM	1067	HD13	LEU	67	36.470	35.863	17.455	0.00	0.00	H

ATOM	1068	HD21	LEU	67	35.714	38.640	18.367	0.00	0.00	H
ATOM	1069	HD22	LEU	67	36.230	37.271	19.366	0.00	0.00	H
ATOM	1070	HD23	LEU	67	37.145	38.852	19.441	0.00	0.00	H
ATOM	1071	N	PRO	68	40.846	37.830	15.732	0.00	0.00	N
ATOM	1072	CA	PRO	68	41.523	39.049	15.316	0.00	0.00	C
ATOM	1073	C	PRO	68	41.113	40.240	16.159	0.00	0.00	C
ATOM	1074	O	PRO	68	39.925	40.634	16.094	0.00	0.00	O
ATOM	1075	CB	PRO	68	41.136	39.296	13.806	0.00	0.00	C
ATOM	1076	CG	PRO	68	40.535	37.967	13.383	0.00	0.00	C
ATOM	1077	CD	PRO	68	40.110	37.263	14.656	0.00	0.00	C
ATOM	1078	HA	PRO	68	42.601	38.908	15.389	0.00	0.00	H
ATOM	1079	HB2	PRO	68	41.993	39.574	13.192	0.00	0.00	H
ATOM	1080	HB3	PRO	68	40.368	40.064	13.709	0.00	0.00	H
ATOM	1081	HG2	PRO	68	39.695	38.188	12.724	0.00	0.00	H
ATOM	1082	HG3	PRO	68	41.391	37.414	12.997	0.00	0.00	H
ATOM	1083	HD2	PRO	68	39.047	37.397	14.859	0.00	0.00	H
ATOM	1084	HD3	PRO	68	40.268	36.186	14.615	0.00	0.00	H
ATOM	1085	N	LEU	69	42.003	40.825	17.037	0.00	0.00	N
ATOM	1086	CA	LEU	69	41.754	41.973	17.879	0.00	0.00	C
ATOM	1087	C	LEU	69	42.969	42.944	17.982	0.00	0.00	C
ATOM	1088	O	LEU	69	44.133	42.579	17.878	0.00	0.00	O
ATOM	1089	CB	LEU	69	41.276	41.490	19.284	0.00	0.00	C
ATOM	1090	CG	LEU	69	39.881	40.807	19.465	0.00	0.00	C
ATOM	1091	CD1	LEU	69	39.999	40.174	20.906	0.00	0.00	C
ATOM	1092	CD2	LEU	69	38.788	41.818	19.344	0.00	0.00	C
ATOM	1093	H	LEU	69	42.933	40.430	17.036	0.00	0.00	H
ATOM	1094	HA	LEU	69	40.922	42.548	17.474	0.00	0.00	H
ATOM	1095	HB2	LEU	69	42.037	40.820	19.682	0.00	0.00	H
ATOM	1096	HB3	LEU	69	41.383	42.316	19.987	0.00	0.00	H
ATOM	1097	HG	LEU	69	39.702	40.056	18.695	0.00	0.00	H
ATOM	1098	HD11	LEU	69	40.780	39.450	21.137	0.00	0.00	H
ATOM	1099	HD12	LEU	69	39.055	39.634	20.960	0.00	0.00	H
ATOM	1100	HD13	LEU	69	40.011	40.972	21.649	0.00	0.00	H
ATOM	1101	HD21	LEU	69	38.881	42.674	20.012	0.00	0.00	H
ATOM	1102	HD22	LEU	69	38.836	42.191	18.321	0.00	0.00	H
ATOM	1103	HD23	LEU	69	37.849	41.311	19.568	0.00	0.00	H
ATOM	1104	N	GLN	70	42.599	44.186	18.346	0.00	0.00	N
ATOM	1105	CA	GLN	70	43.506	45.321	18.538	0.00	0.00	C
ATOM	1106	C	GLN	70	42.726	46.423	19.412	0.00	0.00	C
ATOM	1107	O	GLN	70	42.391	47.498	18.858	0.00	0.00	O
ATOM	1108	CB	GLN	70	44.130	45.812	17.206	0.00	0.00	C
ATOM	1109	CG	GLN	70	43.098	46.012	16.023	0.00	0.00	C
ATOM	1110	CD	GLN	70	43.696	46.636	14.783	0.00	0.00	C
ATOM	1111	NE2	GLN	70	42.895	47.250	13.988	0.00	0.00	N
ATOM	1112	OE1	GLN	70	44.905	46.651	14.479	0.00	0.00	O
ATOM	1113	H	GLN	70	41.645	44.498	18.233	0.00	0.00	H
ATOM	1114	HA	GLN	70	44.319	44.911	19.137	0.00	0.00	H
ATOM	1115	HB2	GLN	70	44.705	46.728	17.344	0.00	0.00	H
ATOM	1116	HB3	GLN	70	44.847	45.068	16.861	0.00	0.00	H
ATOM	1117	HG2	GLN	70	42.600	45.092	15.716	0.00	0.00	H
ATOM	1118	HG3	GLN	70	42.378	46.741	16.395	0.00	0.00	H
ATOM	1119	HE21	GLN	70	41.927	47.391	14.242	0.00	0.00	H
ATOM	1120	HE22	GLN	70	43.377	47.720	13.237	0.00	0.00	H
ATOM	1121	N	PRO	71	42.316	46.097	20.650	0.00	0.00	N
ATOM	1122	CA	PRO	71	41.090	46.713	21.176	0.00	0.00	C
ATOM	1123	C	PRO	71	41.302	48.119	21.633	0.00	0.00	C
ATOM	1124	O	PRO	71	40.317	48.903	21.706	0.00	0.00	O
ATOM	1125	CB	PRO	71	40.534	45.795	22.250	0.00	0.00	C
ATOM	1126	CG	PRO	71	41.063	44.452	21.800	0.00	0.00	C
ATOM	1127	CD	PRO	71	42.477	44.826	21.345	0.00	0.00	C
ATOM	1128	HA	PRO	71	40.385	46.791	20.348	0.00	0.00	H
ATOM	1129	HB2	PRO	71	39.444	45.791	22.244	0.00	0.00	H
ATOM	1130	HB3	PRO	71	40.988	46.081	23.200	0.00	0.00	H
ATOM	1131	HG2	PRO	71	41.049	43.822	22.690	0.00	0.00	H
ATOM	1132	HG3	PRO	71	40.455	43.941	21.054	0.00	0.00	H
ATOM	1133	HD2	PRO	71	43.023	45.085	22.253	0.00	0.00	H
ATOM	1134	HD3	PRO	71	43.035	44.063	20.803	0.00	0.00	H
ATOM	1135	N	SER	72	42.495	48.489	21.964	0.00	0.00	N
ATOM	1136	CA	SER	72	42.820	49.821	22.485	0.00	0.00	C
ATOM	1137	C	SER	72	43.146	50.808	21.334	0.00	0.00	C
ATOM	1138	O	SER	72	43.619	51.926	21.639	0.00	0.00	O
ATOM	1139	CB	SER	72	43.902	49.662	23.575	0.00	0.00	C
ATOM	1140	CG	SER	72	43.506	48.781	24.620	0.00	0.00	O
ATOM	1141	H	SER	72	43.235	47.810	21.861	0.00	0.00	H
ATOM	1142	HA	SER	72	42.032	50.351	23.021	0.00	0.00	H
ATOM	1143	HB2	SER	72	44.799	49.259	23.103	0.00	0.00	H
ATOM	1144	HB3	SER	72	44.203	50.632	23.969	0.00	0.00	H
ATOM	1145	HG	SER	72	43.818	47.878	24.524	0.00	0.00	H
ATOM	1146	N	SER	73	42.902	50.375	20.092	0.00	0.00	N
ATOM	1147	CA	SER	73	42.764	51.260	18.907	0.00	0.00	C
ATOM	1148	C	SER	73	41.472	52.121	18.971	0.00	0.00	C
ATOM	1149	O	SER	73	40.536	51.831	19.764	0.00	0.00	O
ATOM	1150	CB	SER	73	42.645	50.392	17.659	0.00	0.00	C
ATOM	1151	CG	SER	73	41.396	49.630	17.729	0.00	0.00	O
ATOM	1152	H	SER	73	42.626	49.409	19.984	0.00	0.00	H
ATOM	1153	HA	SER	73	43.680	51.825	18.735	0.00	0.00	H
ATOM	1154	HB2	SER	73	42.647	50.955	16.725	0.00	0.00	H
ATOM	1155	HB3	SER	73	43.500	49.718	17.608	0.00	0.00	H
ATOM	1156	HG	SER	73	41.633	48.775	18.098	0.00	0.00	H
ATOM	1157	N	THR	74	41.457	53.223	18.205	0.00	0.00	N
ATOM	1158	CA	THR	74	40.319	54.143	18.128	0.00	0.00	C
ATOM	1159	C	THR	74	38.965	53.492	17.932	0.00	0.00	C
ATOM	1160	O	THR	74	38.034	53.794	18.717	0.00	0.00	O
ATOM	1161	CB	THR	74	40.652	55.104	16.936	0.00	0.00	C
ATOM	1162	CG2	THR	74	39.583	56.130	16.544	0.00	0.00	C
ATOM	1163	OG1	THR	74	41.753	55.852	17.360	0.00	0.00	O
ATOM	1164	H	THR	74	42.223	53.457	17.591	0.00	0.00	H
ATOM	1165	HA	THR	74	40.304	54.772	19.018	0.00	0.00	H
ATOM	1166	HB	THR	74	41.027	54.543	16.080	0.00	0.00	H
ATOM	1167	HG1	THR	74	42.486	55.293	17.628	0.00	0.00	H
ATOM	1168	HG21	THR	74	38.662	55.667	16.190	0.00	0.00	H
ATOM	1169	HG22	THR	74	40.009	56.682	15.706	0.00	0.00	H
ATOM	1170	HG23	THR	74	39.329	56.874	17.299	0.00	0.00	H
ATOM	1171	N	MET	75	38.839	52.536	17.050	0.00	0.00	N
ATOM	1172	CA	MET	75	37.634	51.915	16.693	0.00	0.00	C

ATOM	1173	C	MET	75	37.381	50.684	17.549	0.00	0.00	C
ATOM	1174	O	MET	75	36.210	50.311	17.681	0.00	0.00	O
ATOM	1175	CB	MET	75	37.619	51.568	15.166	0.00	0.00	C
ATOM	1176	CG	MET	75	36.186	51.440	14.501	0.00	0.00	C
ATOM	1177	SD	MET	75	35.140	52.986	14.630	0.00	0.00	S
ATOM	1178	CE	MET	75	35.959	53.993	13.409	0.00	0.00	C
ATOM	1179	H	MET	75	39.569	52.304	16.391	0.00	0.00	H
ATOM	1180	HA	MET	75	36.922	52.714	16.897	0.00	0.00	H
ATOM	1181	HB2	MET	75	38.227	52.289	14.620	0.00	0.00	H
ATOM	1182	HB3	MET	75	38.251	50.713	14.929	0.00	0.00	H
ATOM	1183	HG2	MET	75	36.392	51.208	13.456	0.00	0.00	H
ATOM	1184	HG3	MET	75	35.712	50.631	15.056	0.00	0.00	H
ATOM	1185	HE1	MET	75	36.578	53.403	12.733	0.00	0.00	H
ATOM	1186	HE2	MET	75	35.286	54.581	12.784	0.00	0.00	H
ATOM	1187	HE3	MET	75	36.590	54.757	13.865	0.00	0.00	H
ATOM	1188	N	GLY	76	38.431	50.011	18.046	0.00	0.00	N
ATOM	1189	CA	GLY	76	38.190	48.956	19.075	0.00	0.00	C
ATOM	1190	C	GLY	76	37.613	49.541	20.341	0.00	0.00	C
ATOM	1191	O	GLY	76	36.766	48.900	20.982	0.00	0.00	O
ATOM	1192	H	GLY	76	39.369	50.364	17.919	0.00	0.00	H
ATOM	1193	HA2	GLY	76	37.473	48.228	18.695	0.00	0.00	H
ATOM	1194	HA3	GLY	76	39.044	48.370	19.415	0.00	0.00	H
ATOM	1195	N	GLN	77	38.064	50.755	20.736	0.00	0.00	N
ATOM	1196	CA	GLN	77	37.404	51.575	21.765	0.00	0.00	C
ATOM	1197	C	GLN	77	35.924	51.943	21.466	0.00	0.00	C
ATOM	1198	O	GLN	77	35.120	52.155	22.394	0.00	0.00	O
ATOM	1199	CB	GLN	77	38.121	52.802	22.256	0.00	0.00	C
ATOM	1200	CG	GLN	77	39.302	52.537	23.191	0.00	0.00	C
ATOM	1201	CD	GLN	77	39.196	51.510	24.329	0.00	0.00	C
ATOM	1202	NE2	GLN	77	39.507	50.236	24.044	0.00	0.00	N
ATOM	1203	OE1	GLN	77	38.865	51.831	25.420	0.00	0.00	O
ATOM	1204	H	GLN	77	38.984	51.033	20.426	0.00	0.00	H
ATOM	1205	HA	GLN	77	37.210	50.886	22.588	0.00	0.00	H
ATOM	1206	HB2	GLN	77	38.483	53.364	21.395	0.00	0.00	H
ATOM	1207	HB3	GLN	77	37.349	53.427	22.705	0.00	0.00	H
ATOM	1208	HG2	GLN	77	40.179	52.315	22.583	0.00	0.00	H
ATOM	1209	HG3	GLN	77	39.508	53.471	23.716	0.00	0.00	H
ATOM	1210	HE21	GLN	77	39.266	49.528	24.724	0.00	0.00	H
ATOM	1211	HE22	GLN	77	39.855	49.906	23.156	0.00	0.00	H
ATOM	1212	N	VAL	78	35.479	52.057	20.192	0.00	0.00	N
ATOM	1213	CA	VAL	78	34.051	52.290	19.924	0.00	0.00	C
ATOM	1214	C	VAL	78	33.224	50.992	20.108	0.00	0.00	C
ATOM	1215	O	VAL	78	32.055	51.096	20.544	0.00	0.00	O
ATOM	1216	CB	VAL	78	33.803	52.965	18.510	0.00	0.00	C
ATOM	1217	CG1	VAL	78	32.359	52.966	17.964	0.00	0.00	C
ATOM	1218	CG2	VAL	78	34.388	54.332	18.497	0.00	0.00	C
ATOM	1219	H	VAL	78	36.109	51.972	19.406	0.00	0.00	H
ATOM	1220	HA	VAL	78	33.758	53.046	20.652	0.00	0.00	H
ATOM	1221	HB	VAL	78	34.421	52.493	17.746	0.00	0.00	H
ATOM	1222	HG11	VAL	78	31.927	52.018	17.645	0.00	0.00	H
ATOM	1223	HG12	VAL	78	31.650	53.564	18.537	0.00	0.00	H
ATOM	1224	HG13	VAL	78	32.409	53.494	17.011	0.00	0.00	H
ATOM	1225	HG21	VAL	78	35.467	54.204	18.569	0.00	0.00	H
ATOM	1226	HG22	VAL	78	34.068	54.839	17.586	0.00	0.00	H
ATOM	1227	HG23	VAL	78	34.032	54.908	19.351	0.00	0.00	H
ATOM	1228	N	GLY	79	33.833	49.857	19.984	0.00	0.00	N
ATOM	1229	CA	GLY	79	33.225	48.509	20.341	0.00	0.00	C
ATOM	1230	C	GLY	79	33.003	48.415	21.917	0.00	0.00	C
ATOM	1231	O	GLY	79	31.938	47.945	22.441	0.00	0.00	O
ATOM	1232	H	GLY	79	34.721	49.915	19.506	0.00	0.00	H
ATOM	1233	HA2	GLY	79	32.231	48.390	19.908	0.00	0.00	H
ATOM	1234	HA3	GLY	79	33.815	47.622	20.113	0.00	0.00	H
ATOM	1235	N	ARG	80	34.070	48.823	22.667	0.00	0.00	N
ATOM	1236	CA	ARG	80	33.994	48.961	24.144	0.00	0.00	C
ATOM	1237	C	ARG	80	32.828	49.904	24.573	0.00	0.00	C
ATOM	1238	O	ARG	80	32.139	49.588	25.489	0.00	0.00	O
ATOM	1239	CB	ARG	80	35.203	49.775	24.693	0.00	0.00	C
ATOM	1240	CG	ARG	80	35.236	49.823	26.262	0.00	0.00	C
ATOM	1241	CD	ARG	80	36.677	50.122	26.555	0.00	0.00	C
ATOM	1242	NE	ARG	80	36.975	49.979	27.973	0.00	0.00	N
ATOM	1243	CZ	ARG	80	38.159	50.016	28.519	0.00	0.00	C
ATOM	1244	NH1	ARG	80	38.487	49.512	29.708	0.00	0.00	N1+
ATOM	1245	NH2	ARG	80	39.161	50.528	27.832	0.00	0.00	N
ATOM	1246	H	ARG	80	34.924	49.061	22.182	0.00	0.00	H
ATOM	1247	HA	ARG	80	33.879	47.993	24.632	0.00	0.00	H
ATOM	1248	HB2	ARG	80	36.118	49.306	24.327	0.00	0.00	H
ATOM	1249	HB3	ARG	80	35.117	50.807	24.355	0.00	0.00	H
ATOM	1250	HG2	ARG	80	34.712	50.680	26.686	0.00	0.00	H
ATOM	1251	HG3	ARG	80	35.039	48.821	26.644	0.00	0.00	H
ATOM	1252	HD2	ARG	80	37.324	49.408	26.045	0.00	0.00	H
ATOM	1253	HD3	ARG	80	36.708	51.183	26.305	0.00	0.00	H
ATOM	1254	HE	ARG	80	36.202	49.673	28.547	0.00	0.00	H
ATOM	1255	HH11	ARG	80	37.781	49.076	30.283	0.00	0.00	H
ATOM	1256	HH12	ARG	80	39.334	49.752	30.202	0.00	0.00	H
ATOM	1257	HH21	ARG	80	39.121	50.932	26.908	0.00	0.00	H
ATOM	1258	HH22	ARG	80	40.002	50.664	28.374	0.00	0.00	H
ATOM	1259	N	GLN	81	32.657	51.124	23.934	0.00	0.00	N
ATOM	1260	CA	GLN	81	31.541	52.053	24.081	0.00	0.00	C
ATOM	1261	C	GLN	81	30.186	51.329	23.767	0.00	0.00	C
ATOM	1262	O	GLN	81	29.188	51.599	24.411	0.00	0.00	O
ATOM	1263	CB	GLN	81	31.742	53.404	23.337	0.00	0.00	C
ATOM	1264	CG	GLN	81	32.848	54.314	23.920	0.00	0.00	C
ATOM	1265	CD	GLN	81	32.931	55.734	23.320	0.00	0.00	C
ATOM	1266	NE2	GLN	81	33.798	56.526	23.879	0.00	0.00	N
ATOM	1267	OE1	GLN	81	32.201	56.114	22.481	0.00	0.00	O
ATOM	1268	H	GLN	81	33.493	51.382	23.429	0.00	0.00	H
ATOM	1269	HA	GLN	81	31.433	52.358	25.121	0.00	0.00	H
ATOM	1270	HB2	GLN	81	31.992	53.143	22.308	0.00	0.00	H
ATOM	1271	HB3	GLN	81	30.837	54.009	23.295	0.00	0.00	H
ATOM	1272	HG2	GLN	81	32.641	54.433	24.984	0.00	0.00	H
ATOM	1273	HG3	GLN	81	33.824	53.896	23.677	0.00	0.00	H
ATOM	1274	HE21	GLN	81	33.873	57.512	23.672	0.00	0.00	H
ATOM	1275	HE22	GLN	81	34.367	56.019	24.541	0.00	0.00	H
ATOM	1276	N	LEU	82	30.150	50.576	22.701	0.00	0.00	N
ATOM	1277	CA	LEU	82	29.059	49.706	22.353	0.00	0.00	C

ATOM	1278	C	LEU	82	28.847	48.593	23.443	0.00	0.00	C
ATOM	1279	O	LEU	82	27.700	48.184	23.621	0.00	0.00	O
ATOM	1280	CB	LEU	82	29.254	49.120	20.965	0.00	0.00	C
ATOM	1281	CG	LEU	82	28.028	48.420	20.378	0.00	0.00	C
ATOM	1282	CD1	LEU	82	26.976	49.440	20.081	0.00	0.00	C
ATOM	1283	CD2	LEU	82	28.365	47.661	19.034	0.00	0.00	C
ATOM	1284	H	LEU	82	30.935	50.699	22.079	0.00	0.00	H
ATOM	1285	HA	LEU	82	28.120	50.256	22.409	0.00	0.00	H
ATOM	1286	HB2	LEU	82	29.492	49.896	20.237	0.00	0.00	H
ATOM	1287	HB3	LEU	82	30.165	48.525	20.905	0.00	0.00	H
ATOM	1288	HG	LEU	82	27.653	47.597	20.986	0.00	0.00	H
ATOM	1289	HD11	LEU	82	27.243	50.281	19.441	0.00	0.00	H
ATOM	1290	HD12	LEU	82	26.092	48.953	19.668	0.00	0.00	H
ATOM	1291	HD13	LEU	82	26.532	49.896	20.967	0.00	0.00	H
ATOM	1292	HD21	LEU	82	28.358	48.347	18.187	0.00	0.00	H
ATOM	1293	HD22	LEU	82	27.774	46.768	18.831	0.00	0.00	H
ATOM	1294	HD23	LEU	82	29.418	47.377	19.061	0.00	0.00	H
ATOM	1295	N	ALA	83	29.786	48.218	24.278	0.00	0.00	N
ATOM	1296	CA	ALA	83	29.670	47.254	25.351	0.00	0.00	C
ATOM	1297	C	ALA	83	29.134	48.015	26.585	0.00	0.00	C
ATOM	1298	O	ALA	83	28.128	47.617	27.201	0.00	0.00	O
ATOM	1299	CB	ALA	83	30.977	46.455	25.579	0.00	0.00	C
ATOM	1300	H	ALA	83	30.718	48.428	23.950	0.00	0.00	H
ATOM	1301	HA	ALA	83	28.937	46.478	25.133	0.00	0.00	H
ATOM	1302	HB1	ALA	83	31.614	47.222	26.017	0.00	0.00	H
ATOM	1303	HB2	ALA	83	30.819	45.678	26.327	0.00	0.00	H
ATOM	1304	HB3	ALA	83	31.348	46.136	24.605	0.00	0.00	H
ATOM	1305	N	ILE	84	29.701	49.215	26.936	0.00	0.00	N
ATOM	1306	CA	ILE	84	29.216	50.014	28.030	0.00	0.00	C
ATOM	1307	C	ILE	84	27.886	50.696	27.699	0.00	0.00	C
ATOM	1308	O	ILE	84	27.169	50.938	28.705	0.00	0.00	O
ATOM	1309	CB	ILE	84	30.366	50.907	28.562	0.00	0.00	C
ATOM	1310	CG1	ILE	84	30.754	51.986	27.559	0.00	0.00	C
ATOM	1311	CG2	ILE	84	31.615	50.289	29.150	0.00	0.00	C
ATOM	1312	CD1	ILE	84	30.957	53.367	28.198	0.00	0.00	C
ATOM	1313	H	ILE	84	30.503	49.510	26.396	0.00	0.00	H
ATOM	1314	HA	ILE	84	28.909	49.334	28.825	0.00	0.00	H
ATOM	1315	HB	ILE	84	29.921	51.528	29.340	0.00	0.00	H
ATOM	1316	HG12	ILE	84	31.746	51.708	27.203	0.00	0.00	H
ATOM	1317	HG13	ILE	84	30.024	51.979	26.750	0.00	0.00	H
ATOM	1318	HG21	ILE	84	32.181	51.107	29.597	0.00	0.00	H
ATOM	1319	HG22	ILE	84	31.388	49.690	30.032	0.00	0.00	H
ATOM	1320	HG23	ILE	84	32.262	49.776	28.439	0.00	0.00	H
ATOM	1321	HD11	ILE	84	31.404	54.081	27.506	0.00	0.00	H
ATOM	1322	HD12	ILE	84	30.031	53.703	28.667	0.00	0.00	H
ATOM	1323	HD13	ILE	84	31.672	53.246	29.012	0.00	0.00	H
ATOM	1324	N	ILE	85	27.436	50.772	26.459	0.00	0.00	N
ATOM	1325	CA	ILE	85	26.007	50.903	26.111	0.00	0.00	C
ATOM	1326	C	ILE	85	25.166	49.737	26.451	0.00	0.00	C
ATOM	1327	O	ILE	85	24.114	49.979	27.116	0.00	0.00	O
ATOM	1328	CB	ILE	85	25.753	51.462	24.700	0.00	0.00	C
ATOM	1329	CG1	ILE	85	25.963	52.974	24.742	0.00	0.00	C
ATOM	1330	CG2	ILE	85	24.277	51.240	24.280	0.00	0.00	C
ATOM	1331	CD1	ILE	85	26.430	53.480	23.363	0.00	0.00	C
ATOM	1332	H	ILE	85	28.100	50.724	25.698	0.00	0.00	H
ATOM	1333	HA	ILE	85	25.686	51.649	26.839	0.00	0.00	H
ATOM	1334	HB	ILE	85	26.429	50.960	24.007	0.00	0.00	H
ATOM	1335	HG12	ILE	85	25.116	53.601	25.020	0.00	0.00	H
ATOM	1336	HG13	ILE	85	26.751	53.207	25.458	0.00	0.00	H
ATOM	1337	HG21	ILE	85	24.072	51.953	23.481	0.00	0.00	H
ATOM	1338	HG22	ILE	85	23.625	51.714	25.015	0.00	0.00	H
ATOM	1339	HG23	ILE	85	24.049	50.206	24.024	0.00	0.00	H
ATOM	1340	HD11	ILE	85	25.823	52.967	22.616	0.00	0.00	H
ATOM	1341	HD12	ILE	85	26.216	54.542	23.252	0.00	0.00	H
ATOM	1342	HD13	ILE	85	27.486	53.302	23.157	0.00	0.00	H
ATOM	1343	N	GLY	86	25.602	48.501	26.246	0.00	0.00	N
ATOM	1344	CA	GLY	86	24.780	47.278	26.405	0.00	0.00	C
ATOM	1345	C	GLY	86	24.659	46.883	27.910	0.00	0.00	C
ATOM	1346	O	GLY	86	23.918	45.932	28.211	0.00	0.00	O
ATOM	1347	H	GLY	86	26.463	48.356	25.739	0.00	0.00	H
ATOM	1348	HA2	GLY	86	23.808	47.405	25.928	0.00	0.00	H
ATOM	1349	HA3	GLY	86	25.209	46.382	25.957	0.00	0.00	H
ATOM	1350	N	ASP	87	25.307	47.538	28.890	0.00	0.00	N
ATOM	1351	CA	ASP	87	25.305	47.382	30.377	0.00	0.00	C
ATOM	1352	C	ASP	87	23.876	47.616	30.912	0.00	0.00	C
ATOM	1353	O	ASP	87	23.462	46.907	31.850	0.00	0.00	O
ATOM	1354	CB	ASP	87	26.255	48.467	30.896	0.00	0.00	C
ATOM	1355	CG	ASP	87	26.543	48.178	32.324	0.00	0.00	C
ATOM	1356	OD1	ASP	87	26.233	48.989	33.195	0.00	0.00	O
ATOM	1357	OD2	ASP	87	27.014	47.097	32.676	0.00	0.00	O1-
ATOM	1358	H	ASP	87	25.876	48.270	28.489	0.00	0.00	H
ATOM	1359	HA	ASP	87	25.654	46.397	30.683	0.00	0.00	H
ATOM	1360	HB2	ASP	87	27.160	48.410	30.291	0.00	0.00	H
ATOM	1361	HB3	ASP	87	25.712	49.409	30.812	0.00	0.00	H
ATOM	1362	N	ASP	88	23.087	48.392	30.223	0.00	0.00	N
ATOM	1363	CA	ASP	88	21.767	48.765	30.530	0.00	0.00	C
ATOM	1364	C	ASP	88	20.651	47.903	29.957	0.00	0.00	C
ATOM	1365	O	ASP	88	19.453	48.071	30.251	0.00	0.00	O
ATOM	1366	CB	ASP	88	21.614	50.219	30.179	0.00	0.00	C
ATOM	1367	CG	ASP	88	22.544	51.089	31.015	0.00	0.00	C
ATOM	1368	OD1	ASP	88	22.603	50.918	32.271	0.00	0.00	O
ATOM	1369	OD2	ASP	88	23.091	52.072	30.477	0.00	0.00	O1-
ATOM	1370	H	ASP	88	23.505	48.657	29.342	0.00	0.00	H
ATOM	1371	HA	ASP	88	21.718	48.701	31.617	0.00	0.00	H
ATOM	1372	HB2	ASP	88	21.915	50.347	29.139	0.00	0.00	H
ATOM	1373	HB3	ASP	88	20.566	50.487	30.306	0.00	0.00	H
ATOM	1374	N	ILE	89	21.057	46.900	29.183	0.00	0.00	N
ATOM	1375	CA	ILE	89	20.139	45.828	28.759	0.00	0.00	C
ATOM	1376	C	ILE	89	20.565	44.435	29.269	0.00	0.00	C
ATOM	1377	O	ILE	89	20.065	43.405	28.768	0.00	0.00	O
ATOM	1378	CB	ILE	89	19.940	45.815	27.258	0.00	0.00	C
ATOM	1379	CG1	ILE	89	21.310	45.564	26.477	0.00	0.00	C
ATOM	1380	CG2	ILE	89	19.287	47.126	26.734	0.00	0.00	C
ATOM	1381	CD1	ILE	89	21.086	45.510	24.971	0.00	0.00	C
ATOM	1382	H	ILE	89	22.020	46.848	28.882	0.00	0.00	H

ATOM	1383	HA	ILE	89	19.196	45.925	29.298	0.00	0.00	H
ATOM	1384	HB	ILE	89	19.252	45.024	26.959	0.00	0.00	H
ATOM	1385	HG12	ILE	89	22.008	46.373	26.693	0.00	0.00	H
ATOM	1386	HG13	ILE	89	21.692	44.568	26.701	0.00	0.00	H
ATOM	1387	HG21	ILE	89	19.941	47.992	26.641	0.00	0.00	H
ATOM	1388	HG22	ILE	89	18.956	47.187	25.697	0.00	0.00	H
ATOM	1389	HG23	ILE	89	18.363	47.280	27.290	0.00	0.00	H
ATOM	1390	HD11	ILE	89	22.060	45.371	24.504	0.00	0.00	H
ATOM	1391	HD12	ILE	89	20.358	44.706	24.866	0.00	0.00	H
ATOM	1392	HD13	ILE	89	20.694	46.421	24.518	0.00	0.00	H
ATOM	1393	N	ASN	90	21.359	44.380	30.401	0.00	0.00	N
ATOM	1394	CA	ASN	90	21.558	43.110	31.178	0.00	0.00	C
ATOM	1395	C	ASN	90	20.370	42.850	32.163	0.00	0.00	C
ATOM	1396	O	ASN	90	20.388	41.804	32.745	0.00	0.00	O
ATOM	1397	CB	ASN	90	22.867	43.244	31.892	0.00	0.00	C
ATOM	1398	CG	ASN	90	23.516	41.943	32.249	0.00	0.00	C
ATOM	1399	ND2	ASN	90	24.710	42.100	32.806	0.00	0.00	N
ATOM	1400	OD1	ASN	90	22.934	40.823	32.155	0.00	0.00	O
ATOM	1401	H	ASN	90	21.620	45.275	30.790	0.00	0.00	H
ATOM	1402	HA	ASN	90	21.591	42.239	30.525	0.00	0.00	H
ATOM	1403	HB2	ASN	90	23.600	43.740	31.256	0.00	0.00	H
ATOM	1404	HB3	ASN	90	22.678	43.827	32.793	0.00	0.00	H
ATOM	1405	HD21	ASN	90	24.968	41.196	33.173	0.00	0.00	H
ATOM	1406	HD22	ASN	90	25.056	43.022	33.030	0.00	0.00	H
ATOM	1407	N	ARG	91	19.529	43.820	32.418	0.00	0.00	N
ATOM	1408	CA	ARG	91	18.172	43.754	33.050	0.00	0.00	C
ATOM	1409	C	ARG	91	17.063	43.980	31.989	0.00	0.00	C
ATOM	1410	O	ARG	91	17.137	44.714	30.979	0.00	0.00	O
ATOM	1411	CB	ARG	91	18.124	44.783	34.213	0.00	0.00	C
ATOM	1412	CG	ARG	91	19.197	44.610	35.290	0.00	0.00	C
ATOM	1413	CD	ARG	91	19.363	43.203	35.902	0.00	0.00	C
ATOM	1414	NE	ARG	91	20.668	43.075	36.604	0.00	0.00	N
ATOM	1415	CZ	ARG	91	21.672	42.211	36.410	0.00	0.00	C
ATOM	1416	NH1	ARG	91	21.937	41.603	35.296	0.00	0.00	N1+
ATOM	1417	NH2	ARG	91	22.433	41.821	37.445	0.00	0.00	N
ATOM	1418	H	ARG	91	19.833	44.740	32.133	0.00	0.00	H
ATOM	1419	HA	ARG	91	18.010	42.739	33.410	0.00	0.00	H
ATOM	1420	HB2	ARG	91	18.118	45.798	33.818	0.00	0.00	H
ATOM	1421	HB3	ARG	91	17.159	44.524	34.648	0.00	0.00	H
ATOM	1422	HG2	ARG	91	20.164	44.942	34.910	0.00	0.00	H
ATOM	1423	HG3	ARG	91	18.929	45.236	36.141	0.00	0.00	H
ATOM	1424	HD2	ARG	91	18.566	42.937	36.598	0.00	0.00	H
ATOM	1425	HD3	ARG	91	19.353	42.527	35.047	0.00	0.00	H
ATOM	1426	HE	ARG	91	20.657	43.490	37.524	0.00	0.00	H
ATOM	1427	HH11	ARG	91	21.424	41.590	34.425	0.00	0.00	H
ATOM	1428	HH12	ARG	91	22.784	41.056	35.243	0.00	0.00	H
ATOM	1429	HH21	ARG	91	22.133	42.056	38.380	0.00	0.00	H
ATOM	1430	HH22	ARG	91	23.047	41.020	37.484	0.00	0.00	H
ATOM	1431	N	ARG	92	15.870	43.371	32.308	0.00	0.00	N
ATOM	1432	CA	ARG	92	14.583	43.523	31.618	0.00	0.00	C
ATOM	1433	C	ARG	92	14.516	42.985	30.143	0.00	0.00	C
ATOM	1434	O	ARG	92	13.434	42.551	29.684	0.00	0.00	O
ATOM	1435	CB	ARG	92	14.110	45.017	31.758	0.00	0.00	C
ATOM	1436	CG	ARG	92	12.747	45.335	31.093	0.00	0.00	C
ATOM	1437	CD	ARG	92	12.842	45.695	29.553	0.00	0.00	C
ATOM	1438	NE	ARG	92	11.519	45.832	28.883	0.00	0.00	N
ATOM	1439	CZ	ARG	92	10.848	44.872	28.200	0.00	0.00	C
ATOM	1440	NH1	ARG	92	11.288	43.684	28.099	0.00	0.00	N1+
ATOM	1441	NH2	ARG	92	9.709	45.253	27.673	0.00	0.00	N
ATOM	1442	H	ARG	92	15.931	42.780	33.126	0.00	0.00	H
ATOM	1443	HA	ARG	92	13.752	43.004	32.096	0.00	0.00	H
ATOM	1444	HB2	ARG	92	14.021	45.315	32.802	0.00	0.00	H
ATOM	1445	HB3	ARG	92	14.842	45.709	31.340	0.00	0.00	H
ATOM	1446	HG2	ARG	92	12.011	44.541	31.223	0.00	0.00	H
ATOM	1447	HG3	ARG	92	12.303	46.179	31.620	0.00	0.00	H
ATOM	1448	HD2	ARG	92	13.268	46.691	29.422	0.00	0.00	H
ATOM	1449	HD3	ARG	92	13.555	45.011	29.094	0.00	0.00	H
ATOM	1450	HE	ARG	92	11.061	46.731	28.854	0.00	0.00	H
ATOM	1451	HH11	ARG	92	12.028	43.334	28.691	0.00	0.00	H
ATOM	1452	HH12	ARG	92	10.830	43.027	27.484	0.00	0.00	H
ATOM	1453	HH21	ARG	92	9.390	46.210	27.729	0.00	0.00	H
ATOM	1454	HH22	ARG	92	8.987	44.588	27.435	0.00	0.00	H
ATOM	1455	N	TYR	93	15.643	43.005	29.491	0.00	0.00	N
ATOM	1456	CA	TYR	93	15.853	42.650	28.104	0.00	0.00	C
ATOM	1457	C	TYR	93	16.627	41.318	28.008	0.00	0.00	C
ATOM	1458	O	TYR	93	16.529	40.591	27.044	0.00	0.00	O
ATOM	1459	CB	TYR	93	16.675	43.841	27.475	0.00	0.00	C
ATOM	1460	CG	TYR	93	15.881	45.183	27.471	0.00	0.00	C
ATOM	1461	CD1	TYR	93	14.829	45.303	26.601	0.00	0.00	C
ATOM	1462	CD2	TYR	93	16.265	46.286	28.266	0.00	0.00	C
ATOM	1463	CE1	TYR	93	14.098	46.496	26.474	0.00	0.00	C
ATOM	1464	CE2	TYR	93	15.569	47.505	28.173	0.00	0.00	C
ATOM	1465	CZ	TYR	93	14.466	47.601	27.235	0.00	0.00	C
ATOM	1466	OH	TYR	93	13.827	48.832	27.133	0.00	0.00	O
ATOM	1467	H	TYR	93	16.473	43.211	30.029	0.00	0.00	H
ATOM	1468	HA	TYR	93	14.904	42.630	27.568	0.00	0.00	H
ATOM	1469	HB2	TYR	93	17.653	43.977	27.936	0.00	0.00	H
ATOM	1470	HB3	TYR	93	16.795	43.570	26.425	0.00	0.00	H
ATOM	1471	HD1	TYR	93	14.598	44.503	25.912	0.00	0.00	H
ATOM	1472	HD2	TYR	93	17.026	46.096	29.009	0.00	0.00	H
ATOM	1473	HE1	TYR	93	13.195	46.568	25.887	0.00	0.00	H
ATOM	1474	HE2	TYR	93	15.829	48.375	28.759	0.00	0.00	H
ATOM	1475	HH	TYR	93	14.109	49.457	27.805	0.00	0.00	H
ATOM	1476	N	ASP	94	17.432	40.847	28.988	0.00	0.00	N
ATOM	1477	CA	ASP	94	18.378	39.734	28.819	0.00	0.00	C
ATOM	1478	C	ASP	94	17.638	38.392	28.873	0.00	0.00	C
ATOM	1479	O	ASP	94	17.910	37.536	28.054	0.00	0.00	O
ATOM	1480	CB	ASP	94	19.480	39.812	29.870	0.00	0.00	C
ATOM	1481	CG	ASP	94	20.436	38.604	29.550	0.00	0.00	C
ATOM	1482	OD1	ASP	94	21.452	38.672	28.789	0.00	0.00	O
ATOM	1483	OD2	ASP	94	20.268	37.541	30.218	0.00	0.00	O1-
ATOM	1484	H	ASP	94	17.505	41.375	29.845	0.00	0.00	H
ATOM	1485	HA	ASP	94	18.804	39.770	27.816	0.00	0.00	H
ATOM	1486	HB2	ASP	94	19.992	40.762	29.717	0.00	0.00	H
ATOM	1487	HB3	ASP	94	19.182	39.868	30.917	0.00	0.00	H

ATOM	1488	N	SER	95	16.606	38.226	29.724	0.00	0.00	N
ATOM	1489	CA	SER	95	15.755	37.034	29.594	0.00	0.00	C
ATOM	1490	C	SER	95	14.833	37.020	28.313	0.00	0.00	C
ATOM	1491	O	SER	95	14.337	35.920	27.958	0.00	0.00	O
ATOM	1492	CB	SER	95	14.940	36.758	30.872	0.00	0.00	C
ATOM	1493	OG	SER	95	14.609	35.412	30.957	0.00	0.00	O
ATOM	1494	H	SER	95	16.167	38.946	30.279	0.00	0.00	H
ATOM	1495	HA	SER	95	16.429	36.180	29.530	0.00	0.00	H
ATOM	1496	HB2	SER	95	15.603	36.938	31.719	0.00	0.00	H
ATOM	1497	HB3	SER	95	14.044	37.375	30.950	0.00	0.00	H
ATOM	1498	HG	SER	95	15.376	34.892	31.206	0.00	0.00	H
ATOM	1499	N	GLU	96	14.630	38.138	27.649	0.00	0.00	N
ATOM	1500	CA	GLU	96	13.943	38.157	26.370	0.00	0.00	C
ATOM	1501	C	GLU	96	14.910	37.758	25.290	0.00	0.00	C
ATOM	1502	O	GLU	96	14.550	36.782	24.604	0.00	0.00	O
ATOM	1503	CB	GLU	96	13.275	39.473	25.972	0.00	0.00	C
ATOM	1504	CG	GLU	96	12.138	39.902	26.915	0.00	0.00	C
ATOM	1505	CD	GLU	96	10.954	38.909	27.160	0.00	0.00	C
ATOM	1506	OE1	GLU	96	10.498	38.316	26.181	0.00	0.00	O
ATOM	1507	OE2	GLU	96	10.494	38.750	28.320	0.00	0.00	O1-
ATOM	1508	H	GLU	96	15.130	38.942	28.000	0.00	0.00	H
ATOM	1509	HA	GLU	96	13.163	37.400	26.297	0.00	0.00	H
ATOM	1510	HB2	GLU	96	14.059	40.227	25.895	0.00	0.00	H
ATOM	1511	HB3	GLU	96	12.910	39.380	24.949	0.00	0.00	H
ATOM	1512	HG2	GLU	96	12.608	40.111	27.876	0.00	0.00	H
ATOM	1513	HG3	GLU	96	11.740	40.861	26.586	0.00	0.00	H
ATOM	1514	N	PHE	97	16.137	38.146	25.307	0.00	0.00	N
ATOM	1515	CA	PHE	97	17.228	37.595	24.481	0.00	0.00	C
ATOM	1516	C	PHE	97	17.584	36.120	24.814	0.00	0.00	C
ATOM	1517	O	PHE	97	18.095	35.407	23.983	0.00	0.00	O
ATOM	1518	CB	PHE	97	18.457	38.477	24.482	0.00	0.00	C
ATOM	1519	CG	PHE	97	18.283	39.933	24.192	0.00	0.00	C
ATOM	1520	CD1	PHE	97	17.443	40.194	23.103	0.00	0.00	C
ATOM	1521	CD2	PHE	97	18.812	40.945	24.997	0.00	0.00	C
ATOM	1522	CE1	PHE	97	17.115	41.550	22.711	0.00	0.00	C
ATOM	1523	CE2	PHE	97	18.537	42.268	24.591	0.00	0.00	C
ATOM	1524	CZ	PHE	97	17.683	42.566	23.487	0.00	0.00	C
ATOM	1525	H	PHE	97	16.288	39.012	25.806	0.00	0.00	H
ATOM	1526	HA	PHE	97	16.910	37.675	23.442	0.00	0.00	H
ATOM	1527	HB2	PHE	97	18.933	38.412	25.461	0.00	0.00	H
ATOM	1528	HB3	PHE	97	19.075	38.080	23.677	0.00	0.00	H
ATOM	1529	HD1	PHE	97	17.121	39.358	22.501	0.00	0.00	H
ATOM	1530	HD2	PHE	97	19.386	40.802	25.901	0.00	0.00	H
ATOM	1531	HE1	PHE	97	16.401	41.777	21.934	0.00	0.00	H
ATOM	1532	HE2	PHE	97	18.963	43.033	25.224	0.00	0.00	H
ATOM	1533	HZ	PHE	97	17.467	43.590	23.218	0.00	0.00	H
ATOM	1534	N	GLN	98	17.172	35.640	25.983	0.00	0.00	N
ATOM	1535	CA	GLN	98	17.275	34.175	26.402	0.00	0.00	C
ATOM	1536	C	GLN	98	16.016	33.446	25.805	0.00	0.00	C
ATOM	1537	O	GLN	98	16.137	32.314	25.308	0.00	0.00	O
ATOM	1538	CB	GLN	98	17.465	33.922	27.870	0.00	0.00	C
ATOM	1539	CG	GLN	98	18.194	32.629	28.169	0.00	0.00	C
ATOM	1540	CD	GLN	98	19.529	32.328	27.573	0.00	0.00	C
ATOM	1541	NE2	GLN	98	20.441	33.256	27.516	0.00	0.00	N
ATOM	1542	OE1	GLN	98	19.851	31.207	27.126	0.00	0.00	O
ATOM	1543	H	GLN	98	16.772	36.282	26.652	0.00	0.00	H
ATOM	1544	HA	GLN	98	18.135	33.785	25.858	0.00	0.00	H
ATOM	1545	HB2	GLN	98	17.874	34.769	28.421	0.00	0.00	H
ATOM	1546	HB3	GLN	98	16.474	33.881	28.322	0.00	0.00	H
ATOM	1547	HG2	GLN	98	18.447	32.561	29.227	0.00	0.00	H
ATOM	1548	HG3	GLN	98	17.470	31.870	27.873	0.00	0.00	H
ATOM	1549	HE21	GLN	98	21.356	33.110	27.114	0.00	0.00	H
ATOM	1550	HE22	GLN	98	20.141	34.199	27.719	0.00	0.00	H
ATOM	1551	N	THR	99	14.887	34.079	25.747	0.00	0.00	N
ATOM	1552	CA	THR	99	13.724	33.537	25.029	0.00	0.00	C
ATOM	1553	C	THR	99	13.857	33.410	23.477	0.00	0.00	C
ATOM	1554	O	THR	99	13.495	32.410	22.882	0.00	0.00	O
ATOM	1555	CB	THR	99	12.457	34.270	25.355	0.00	0.00	C
ATOM	1556	CG2	THR	99	11.239	33.634	24.838	0.00	0.00	C
ATOM	1557	OG1	THR	99	12.389	34.471	26.721	0.00	0.00	O
ATOM	1558	H	THR	99	14.862	34.966	26.228	0.00	0.00	H
ATOM	1559	HA	THR	99	13.454	32.542	25.382	0.00	0.00	H
ATOM	1560	HB	THR	99	12.409	35.292	24.980	0.00	0.00	H
ATOM	1561	HG1	THR	99	13.235	34.701	27.114	0.00	0.00	H
ATOM	1562	HG21	THR	99	10.421	34.201	25.283	0.00	0.00	H
ATOM	1563	HG22	THR	99	11.179	33.834	23.769	0.00	0.00	H
ATOM	1564	HG23	THR	99	11.289	32.561	25.025	0.00	0.00	H
ATOM	1565	N	MET	100	14.487	34.405	22.849	0.00	0.00	N
ATOM	1566	CA	MET	100	14.958	34.400	21.448	0.00	0.00	C
ATOM	1567	C	MET	100	16.065	33.356	21.180	0.00	0.00	C
ATOM	1568	O	MET	100	16.395	33.183	20.047	0.00	0.00	O
ATOM	1569	CB	MET	100	15.422	35.789	21.041	0.00	0.00	C
ATOM	1570	CG	MET	100	14.292	36.786	21.087	0.00	0.00	C
ATOM	1571	SD	MET	100	14.614	38.541	20.767	0.00	0.00	S
ATOM	1572	CE	MET	100	13.027	39.093	21.262	0.00	0.00	C
ATOM	1573	H	MET	100	14.599	35.218	23.437	0.00	0.00	H
ATOM	1574	HA	MET	100	14.138	34.068	20.809	0.00	0.00	H
ATOM	1575	HB2	MET	100	16.201	36.102	21.737	0.00	0.00	H
ATOM	1576	HB3	MET	100	16.004	35.724	20.123	0.00	0.00	H
ATOM	1577	HG2	MET	100	13.517	36.392	20.430	0.00	0.00	H
ATOM	1578	HG3	MET	100	13.909	36.705	22.105	0.00	0.00	H
ATOM	1579	HE1	MET	100	12.753	38.631	22.210	0.00	0.00	H
ATOM	1580	HE2	MET	100	13.137	40.170	21.386	0.00	0.00	H
ATOM	1581	HE3	MET	100	12.310	38.852	20.477	0.00	0.00	H
ATOM	1582	N	LEU	101	16.353	32.626	22.186	0.00	0.00	N
ATOM	1583	CA	LEU	101	17.415	31.428	22.131	0.00	0.00	C
ATOM	1584	C	LEU	101	16.666	30.139	22.471	0.00	0.00	C
ATOM	1585	O	LEU	101	17.288	29.055	22.440	0.00	0.00	O
ATOM	1586	CB	LEU	101	18.589	31.692	23.108	0.00	0.00	C
ATOM	1587	CG	LEU	101	19.499	32.820	22.669	0.00	0.00	C
ATOM	1588	CD1	LEU	101	20.330	33.143	23.921	0.00	0.00	C
ATOM	1589	CD2	LEU	101	20.431	32.418	21.605	0.00	0.00	C
ATOM	1590	H	LEU	101	16.301	32.923	23.117	0.00	0.00	H
ATOM	1591	HA	LEU	101	17.952	31.326	21.188	0.00	0.00	H
ATOM	1592	HB2	LEU	101	18.195	31.914	24.100	0.00	0.00	H

ATOM	1593	HB3	LEU	101	19.178	30.786	23.250	0.00	0.00	H
ATOM	1594	HG	LEU	101	18.908	33.661	22.307	0.00	0.00	H
ATOM	1595	HD11	LEU	101	20.755	32.316	24.491	0.00	0.00	H
ATOM	1596	HD12	LEU	101	19.861	33.725	24.715	0.00	0.00	H
ATOM	1597	HD13	LEU	101	21.183	33.786	23.708	0.00	0.00	H
ATOM	1598	HD21	LEU	101	19.749	32.175	20.790	0.00	0.00	H
ATOM	1599	HD22	LEU	101	21.175	33.144	21.278	0.00	0.00	H
ATOM	1600	HD23	LEU	101	20.999	31.502	21.771	0.00	0.00	H
ATOM	1601	N	GLN	102	15.353	30.241	22.778	0.00	0.00	N
ATOM	1602	CA	GLN	102	14.699	29.010	23.241	0.00	0.00	C
ATOM	1603	C	GLN	102	14.633	27.857	22.229	0.00	0.00	C
ATOM	1604	O	GLN	102	14.663	26.644	22.548	0.00	0.00	O
ATOM	1605	CB	GLN	102	13.341	29.497	23.805	0.00	0.00	C
ATOM	1606	CG	GLN	102	12.542	28.459	24.502	0.00	0.00	C
ATOM	1607	CD	GLN	102	11.121	28.883	24.827	0.00	0.00	C
ATOM	1608	NE2	GLN	102	10.246	28.059	25.251	0.00	0.00	N
ATOM	1609	OE1	GLN	102	10.796	30.062	24.719	0.00	0.00	O
ATOM	1610	H	GLN	102	14.846	31.114	22.739	0.00	0.00	H
ATOM	1611	HA	GLN	102	15.296	28.615	24.064	0.00	0.00	H
ATOM	1612	HB2	GLN	102	13.643	30.296	24.481	0.00	0.00	H
ATOM	1613	HB3	GLN	102	12.736	29.962	23.025	0.00	0.00	H
ATOM	1614	HG2	GLN	102	12.525	27.583	23.854	0.00	0.00	H
ATOM	1615	HG3	GLN	102	13.034	28.035	25.377	0.00	0.00	H
ATOM	1616	HE21	GLN	102	9.385	28.375	25.673	0.00	0.00	H
ATOM	1617	HE22	GLN	102	10.503	27.089	25.360	0.00	0.00	H
ATOM	1618	N	HIP	103	14.381	28.288	20.958	0.00	0.00	N
ATOM	1619	CA	HIP	103	13.900	27.441	19.877	0.00	0.00	C
ATOM	1620	C	HIP	103	14.842	27.387	18.674	0.00	0.00	C
ATOM	1621	O	HIP	103	14.718	28.068	17.619	0.00	0.00	O
ATOM	1622	CB	HIP	103	12.484	27.995	19.440	0.00	0.00	C
ATOM	1623	CG	HIP	103	11.343	27.515	20.431	0.00	0.00	C
ATOM	1624	CD2	HIP	103	10.477	28.225	21.235	0.00	0.00	C
ATOM	1625	ND1	HIP	103	10.995	26.208	20.615	0.00	0.00	N1+
ATOM	1626	CE1	HIP	103	9.980	26.166	21.477	0.00	0.00	C
ATOM	1627	NE2	HIP	103	9.694	27.400	21.959	0.00	0.00	N
ATOM	1628	H	HIP	103	14.427	29.283	20.794	0.00	0.00	H
ATOM	1629	HA	HIP	103	13.781	26.424	20.249	0.00	0.00	H
ATOM	1630	HB2	HIP	103	12.458	29.084	19.480	0.00	0.00	H
ATOM	1631	HB3	HIP	103	12.284	27.624	18.435	0.00	0.00	H
ATOM	1632	HD1	HIP	103	11.456	25.408	20.208	0.00	0.00	H
ATOM	1633	HD2	HIP	103	10.403	29.303	21.224	0.00	0.00	H
ATOM	1634	HE1	HIP	103	9.631	25.286	21.997	0.00	0.00	H
ATOM	1635	HE2	HIP	103	8.905	27.676	22.526	0.00	0.00	H
ATOM	1636	N	LEU	104	15.987	26.714	18.871	0.00	0.00	N
ATOM	1637	CA	LEU	104	17.090	26.571	17.976	0.00	0.00	C
ATOM	1638	C	LEU	104	17.509	25.095	17.827	0.00	0.00	C
ATOM	1639	O	LEU	104	17.444	24.237	18.747	0.00	0.00	O
ATOM	1640	CB	LEU	104	18.266	27.442	18.458	0.00	0.00	C
ATOM	1641	CG	LEU	104	18.290	28.955	18.228	0.00	0.00	C
ATOM	1642	CD1	LEU	104	19.352	29.655	19.120	0.00	0.00	C
ATOM	1643	CD2	LEU	104	18.597	29.198	16.714	0.00	0.00	C
ATOM	1644	H	LEU	104	16.112	26.389	19.818	0.00	0.00	H
ATOM	1645	HA	LEU	104	16.728	26.916	17.008	0.00	0.00	H
ATOM	1646	HB2	LEU	104	18.438	27.237	19.515	0.00	0.00	H
ATOM	1647	HB3	LEU	104	19.194	27.016	18.080	0.00	0.00	H
ATOM	1648	HG	LEU	104	17.299	29.373	18.398	0.00	0.00	H
ATOM	1649	HD11	LEU	104	18.983	29.778	20.138	0.00	0.00	H
ATOM	1650	HD12	LEU	104	20.342	29.203	19.178	0.00	0.00	H
ATOM	1651	HD13	LEU	104	19.336	30.682	18.754	0.00	0.00	H
ATOM	1652	HD21	LEU	104	18.013	28.539	16.071	0.00	0.00	H
ATOM	1653	HD22	LEU	104	18.268	30.200	16.438	0.00	0.00	H
ATOM	1654	HD23	LEU	104	19.664	29.051	16.550	0.00	0.00	H
ATOM	1655	N	GLN	105	18.021	24.811	16.596	0.00	0.00	N
ATOM	1656	CA	GLN	105	18.908	23.604	16.309	0.00	0.00	C
ATOM	1657	C	GLN	105	20.446	23.859	16.308	0.00	0.00	C
ATOM	1658	O	GLN	105	20.771	25.029	16.167	0.00	0.00	O
ATOM	1659	CB	GLN	105	18.502	22.948	14.976	0.00	0.00	C
ATOM	1660	CG	GLN	105	17.012	22.646	14.754	0.00	0.00	C
ATOM	1661	CD	GLN	105	16.416	21.621	15.733	0.00	0.00	C
ATOM	1662	NE2	GLN	105	16.070	20.432	15.196	0.00	0.00	N
ATOM	1663	OE1	GLN	105	16.348	21.783	16.953	0.00	0.00	O
ATOM	1664	H	GLN	105	18.068	25.571	15.933	0.00	0.00	H
ATOM	1665	HA	GLN	105	18.584	22.828	17.001	0.00	0.00	H
ATOM	1666	HB2	GLN	105	18.790	23.706	14.248	0.00	0.00	H
ATOM	1667	HB3	GLN	105	18.981	21.971	14.912	0.00	0.00	H
ATOM	1668	HG2	GLN	105	16.494	23.549	15.076	0.00	0.00	H
ATOM	1669	HG3	GLN	105	16.846	22.446	13.696	0.00	0.00	H
ATOM	1670	HE21	GLN	105	15.664	19.744	15.813	0.00	0.00	H
ATOM	1671	HE22	GLN	105	16.070	20.301	14.195	0.00	0.00	H
ATOM	1672	N	PRO	106	21.393	22.906	16.513	0.00	0.00	N
ATOM	1673	CA	PRO	106	22.723	23.127	17.062	0.00	0.00	C
ATOM	1674	C	PRO	106	23.764	23.824	16.190	0.00	0.00	C
ATOM	1675	O	PRO	106	24.928	24.006	16.590	0.00	0.00	O
ATOM	1676	CB	PRO	106	23.239	21.818	17.610	0.00	0.00	C
ATOM	1677	CG	PRO	106	21.925	21.089	17.854	0.00	0.00	C
ATOM	1678	CD	PRO	106	21.134	21.487	16.677	0.00	0.00	C
ATOM	1679	HA	PRO	106	22.518	23.676	17.980	0.00	0.00	H
ATOM	1680	HB2	PRO	106	23.794	21.860	18.547	0.00	0.00	H
ATOM	1681	HB3	PRO	106	23.837	21.311	16.852	0.00	0.00	H
ATOM	1682	HG2	PRO	106	22.001	20.004	17.911	0.00	0.00	H
ATOM	1683	HG3	PRO	106	21.388	21.501	18.710	0.00	0.00	H
ATOM	1684	HD2	PRO	106	21.587	21.061	15.781	0.00	0.00	H
ATOM	1685	HD3	PRO	106	20.088	21.230	16.846	0.00	0.00	H
ATOM	1686	N	THR	107	23.409	24.436	15.061	0.00	0.00	N
ATOM	1687	CA	THR	107	24.295	25.060	14.079	0.00	0.00	C
ATOM	1688	C	THR	107	24.286	26.558	14.095	0.00	0.00	C
ATOM	1689	O	THR	107	23.329	27.360	14.260	0.00	0.00	O
ATOM	1690	CB	THR	107	23.899	24.526	12.640	0.00	0.00	C
ATOM	1691	CG2	THR	107	24.159	22.988	12.469	0.00	0.00	C
ATOM	1692	OG1	THR	107	22.502	24.600	12.407	0.00	0.00	O
ATOM	1693	H	THR	107	22.468	24.278	14.728	0.00	0.00	H
ATOM	1694	HA	THR	107	25.276	24.610	14.229	0.00	0.00	H
ATOM	1695	HB	THR	107	24.429	25.103	11.881	0.00	0.00	H
ATOM	1696	HG1	THR	107	22.452	23.985	11.671	0.00	0.00	H
ATOM	1697	HG21	THR	107	25.182	22.790	12.788	0.00	0.00	H

ATOM	1698	HG22	THR	107	23.455	22.397	13.055	0.00	0.00	H
ATOM	1699	HG23	THR	107	24.099	22.751	11.408	0.00	0.00	H
ATOM	1700	N	ALA	108	25.493	26.973	13.676	0.00	0.00	N
ATOM	1701	CA	ALA	108	25.780	28.328	13.248	0.00	0.00	C
ATOM	1702	C	ALA	108	24.863	28.767	12.099	0.00	0.00	C
ATOM	1703	O	ALA	108	24.240	29.807	12.103	0.00	0.00	O
ATOM	1704	CB	ALA	108	27.314	28.597	13.028	0.00	0.00	C
ATOM	1705	H	ALA	108	26.185	26.252	13.529	0.00	0.00	H
ATOM	1706	HA	ALA	108	25.532	28.958	14.102	0.00	0.00	H
ATOM	1707	HB1	ALA	108	27.354	29.488	12.401	0.00	0.00	H
ATOM	1708	HB2	ALA	108	27.857	28.683	13.969	0.00	0.00	H
ATOM	1709	HB3	ALA	108	27.681	27.767	12.424	0.00	0.00	H
ATOM	1710	N	GLU	109	24.567	27.814	11.188	0.00	0.00	N
ATOM	1711	CA	GLU	109	23.565	27.867	10.144	0.00	0.00	C
ATOM	1712	C	GLU	109	22.090	28.019	10.703	0.00	0.00	C
ATOM	1713	O	GLU	109	21.356	28.977	10.212	0.00	0.00	O
ATOM	1714	CB	GLU	109	23.601	26.617	9.258	0.00	0.00	C
ATOM	1715	CG	GLU	109	22.637	26.640	8.092	0.00	0.00	C
ATOM	1716	CD	GLU	109	23.012	25.513	7.097	0.00	0.00	C
ATOM	1717	OE1	GLU	109	23.609	25.718	6.009	0.00	0.00	O
ATOM	1718	OE2	GLU	109	22.834	24.320	7.476	0.00	0.00	O1-
ATOM	1719	H	GLU	109	24.983	26.901	11.296	0.00	0.00	H
ATOM	1720	HA	GLU	109	23.739	28.734	9.506	0.00	0.00	H
ATOM	1721	HB2	GLU	109	24.550	26.588	8.724	0.00	0.00	H
ATOM	1722	HB3	GLU	109	23.543	25.763	9.933	0.00	0.00	H
ATOM	1723	HG2	GLU	109	21.576	26.604	8.338	0.00	0.00	H
ATOM	1724	HG3	GLU	109	22.868	27.622	7.678	0.00	0.00	H
ATOM	1725	N	ASN	110	21.633	27.247	11.768	0.00	0.00	N
ATOM	1726	CA	ASN	110	20.278	27.435	12.304	0.00	0.00	C
ATOM	1727	C	ASN	110	20.200	28.774	13.103	0.00	0.00	C
ATOM	1728	O	ASN	110	19.108	29.436	13.024	0.00	0.00	O
ATOM	1729	CB	ASN	110	19.825	26.162	13.021	0.00	0.00	C
ATOM	1730	CG	ASN	110	18.337	26.230	13.296	0.00	0.00	C
ATOM	1731	ND2	ASN	110	17.440	25.666	12.505	0.00	0.00	N
ATOM	1732	OD1	ASN	110	17.933	26.634	14.373	0.00	0.00	O
ATOM	1733	H	ASN	110	22.182	26.445	12.045	0.00	0.00	H
ATOM	1734	HA	ASN	110	19.604	27.547	11.454	0.00	0.00	H
ATOM	1735	HB2	ASN	110	19.991	25.328	12.340	0.00	0.00	H
ATOM	1736	HB3	ASN	110	20.334	26.052	13.979	0.00	0.00	H
ATOM	1737	HD21	ASN	110	16.511	26.024	12.672	0.00	0.00	H
ATOM	1738	HD22	ASN	110	17.713	25.220	11.641	0.00	0.00	H
ATOM	1739	N	ALA	111	21.277	29.192	13.696	0.00	0.00	N
ATOM	1740	CA	ALA	111	21.307	30.453	14.362	0.00	0.00	C
ATOM	1741	C	ALA	111	21.097	31.576	13.327	0.00	0.00	C
ATOM	1742	O	ALA	111	20.426	32.556	13.656	0.00	0.00	O
ATOM	1743	CB	ALA	111	22.678	30.608	15.090	0.00	0.00	C
ATOM	1744	H	ALA	111	22.077	28.584	13.793	0.00	0.00	H
ATOM	1745	HA	ALA	111	20.633	30.433	15.220	0.00	0.00	H
ATOM	1746	HB1	ALA	111	23.534	30.353	14.466	0.00	0.00	H
ATOM	1747	HB2	ALA	111	22.749	31.679	15.279	0.00	0.00	H
ATOM	1748	HB3	ALA	111	22.750	29.935	15.945	0.00	0.00	H
ATOM	1749	N	TYR	112	21.712	31.449	12.124	0.00	0.00	N
ATOM	1750	CA	TYR	112	21.539	32.395	10.928	0.00	0.00	C
ATOM	1751	C	TYR	112	20.106	32.331	10.290	0.00	0.00	C
ATOM	1752	O	TYR	112	19.581	33.322	9.739	0.00	0.00	O
ATOM	1753	CB	TYR	112	22.527	32.086	9.762	0.00	0.00	C
ATOM	1754	CG	TYR	112	24.012	32.233	10.059	0.00	0.00	C
ATOM	1755	CD1	TYR	112	24.587	32.879	11.245	0.00	0.00	C
ATOM	1756	CD2	TYR	112	24.919	31.616	9.167	0.00	0.00	C
ATOM	1757	CE1	TYR	112	25.957	33.035	11.378	0.00	0.00	C
ATOM	1758	CE2	TYR	112	26.308	31.653	9.348	0.00	0.00	C
ATOM	1759	CZ	TYR	112	26.781	32.400	10.484	0.00	0.00	C
ATOM	1760	OH	TYR	112	28.128	32.546	10.506	0.00	0.00	O
ATOM	1761	H	TYR	112	22.298	30.628	12.077	0.00	0.00	H
ATOM	1762	HA	TYR	112	21.793	33.411	11.230	0.00	0.00	H
ATOM	1763	HB2	TYR	112	22.456	31.069	9.377	0.00	0.00	H
ATOM	1764	HB3	TYR	112	22.237	32.795	8.987	0.00	0.00	H
ATOM	1765	HD1	TYR	112	23.906	33.321	11.958	0.00	0.00	H
ATOM	1766	HD2	TYR	112	24.602	30.969	8.363	0.00	0.00	H
ATOM	1767	HE1	TYR	112	26.301	33.525	12.278	0.00	0.00	H
ATOM	1768	HE2	TYR	112	27.029	31.202	8.682	0.00	0.00	H
ATOM	1769	HH	TYR	112	28.600	32.126	9.784	0.00	0.00	H
ATOM	1770	N	GLU	113	19.491	31.170	10.362	0.00	0.00	N
ATOM	1771	CA	GLU	113	18.049	30.984	10.101	0.00	0.00	C
ATOM	1772	C	GLU	113	17.120	31.818	11.043	0.00	0.00	C
ATOM	1773	O	GLU	113	16.105	32.349	10.613	0.00	0.00	O
ATOM	1774	CB	GLU	113	17.638	29.504	10.121	0.00	0.00	C
ATOM	1775	CG	GLU	113	16.189	29.208	9.757	0.00	0.00	C
ATOM	1776	CD	GLU	113	15.969	27.684	9.961	0.00	0.00	C
ATOM	1777	OE1	GLU	113	15.311	27.299	10.929	0.00	0.00	O
ATOM	1778	OE2	GLU	113	16.462	26.952	9.052	0.00	0.00	O1-
ATOM	1779	H	GLU	113	19.951	30.336	10.695	0.00	0.00	H
ATOM	1780	HA	GLU	113	17.934	31.309	9.067	0.00	0.00	H
ATOM	1781	HB2	GLU	113	18.346	28.856	9.604	0.00	0.00	H
ATOM	1782	HB3	GLU	113	17.734	29.178	11.156	0.00	0.00	H
ATOM	1783	HG2	GLU	113	15.480	29.849	10.280	0.00	0.00	H
ATOM	1784	HG3	GLU	113	16.127	29.447	8.695	0.00	0.00	H
ATOM	1785	N	TYR	114	17.471	31.788	12.326	0.00	0.00	N
ATOM	1786	CA	TYR	114	16.730	32.519	13.414	0.00	0.00	C
ATOM	1787	C	TYR	114	16.933	34.065	13.487	0.00	0.00	C
ATOM	1788	O	TYR	114	16.012	34.821	13.658	0.00	0.00	O
ATOM	1789	CB	TYR	114	16.916	31.826	14.750	0.00	0.00	C
ATOM	1790	CG	TYR	114	15.807	32.162	15.749	0.00	0.00	C
ATOM	1791	CD1	TYR	114	14.844	31.184	16.052	0.00	0.00	C
ATOM	1792	CD2	TYR	114	15.733	33.381	16.427	0.00	0.00	C
ATOM	1793	CE1	TYR	114	13.704	31.500	16.845	0.00	0.00	C
ATOM	1794	CE2	TYR	114	14.717	33.654	17.291	0.00	0.00	C
ATOM	1795	CZ	TYR	114	13.649	32.776	17.472	0.00	0.00	C
ATOM	1796	OH	TYR	114	12.634	32.998	18.364	0.00	0.00	O
ATOM	1797	H	TYR	114	18.327	31.362	12.651	0.00	0.00	H
ATOM	1798	HA	TYR	114	15.693	32.540	13.082	0.00	0.00	H
ATOM	1799	HB2	TYR	114	16.894	30.753	14.560	0.00	0.00	H
ATOM	1800	HB3	TYR	114	17.890	32.194	15.069	0.00	0.00	H
ATOM	1801	HD1	TYR	114	14.942	30.166	15.708	0.00	0.00	H
ATOM	1802	HD2	TYR	114	16.449	34.178	16.292	0.00	0.00	H

ATOM	1803	HE1	TYR	114	12.970	30.748	17.094	0.00	0.00	H
ATOM	1804	HE2	TYR	114	14.571	34.524	17.913	0.00	0.00	H
ATOM	1805	HH	TYR	114	11.945	32.331	18.385	0.00	0.00	H
ATOM	1806	N	PHE	115	18.189	34.498	13.246	0.00	0.00	N
ATOM	1807	CA	PHE	115	18.459	35.930	13.116	0.00	0.00	C
ATOM	1808	C	PHE	115	17.617	36.472	11.923	0.00	0.00	C
ATOM	1809	O	PHE	115	16.806	37.374	12.095	0.00	0.00	O
ATOM	1810	CB	PHE	115	19.929	36.099	12.701	0.00	0.00	C
ATOM	1811	CG	PHE	115	20.368	37.538	12.859	0.00	0.00	C
ATOM	1812	CD1	PHE	115	21.368	37.851	13.800	0.00	0.00	C
ATOM	1813	CD2	PHE	115	20.079	38.467	11.880	0.00	0.00	C
ATOM	1814	CE1	PHE	115	21.952	39.107	13.844	0.00	0.00	C
ATOM	1815	CE2	PHE	115	20.568	39.765	11.935	0.00	0.00	C
ATOM	1816	CZ	PHE	115	21.477	40.107	12.973	0.00	0.00	C
ATOM	1817	H	PHE	115	18.941	33.850	13.063	0.00	0.00	H
ATOM	1818	HA	PHE	115	18.091	36.460	13.994	0.00	0.00	H
ATOM	1819	HB2	PHE	115	20.566	35.509	13.360	0.00	0.00	H
ATOM	1820	HB3	PHE	115	20.092	35.849	11.653	0.00	0.00	H
ATOM	1821	HD1	PHE	115	21.668	36.960	14.332	0.00	0.00	H
ATOM	1822	HD2	PHE	115	19.492	38.070	11.065	0.00	0.00	H
ATOM	1823	HE1	PHE	115	22.739	39.326	14.551	0.00	0.00	H
ATOM	1824	HE2	PHE	115	20.211	40.522	11.252	0.00	0.00	H
ATOM	1825	HZ	PHE	115	21.771	41.143	13.052	0.00	0.00	H
ATOM	1826	N	THR	116	17.562	35.742	10.840	0.00	0.00	N
ATOM	1827	CA	THR	116	16.820	36.142	9.665	0.00	0.00	C
ATOM	1828	C	THR	116	15.261	36.028	9.808	0.00	0.00	C
ATOM	1829	O	THR	116	14.509	36.787	9.304	0.00	0.00	O
ATOM	1830	CB	THR	116	17.210	35.349	8.396	0.00	0.00	C
ATOM	1831	CG2	THR	116	16.640	35.730	7.040	0.00	0.00	C
ATOM	1832	OG1	THR	116	18.570	35.357	8.226	0.00	0.00	O
ATOM	1833	H	THR	116	18.101	34.888	10.823	0.00	0.00	H
ATOM	1834	HA	THR	116	16.986	37.185	9.392	0.00	0.00	H
ATOM	1835	HB	THR	116	16.937	34.312	8.590	0.00	0.00	H
ATOM	1836	HG1	THR	116	18.695	34.473	8.578	0.00	0.00	H
ATOM	1837	HG21	THR	116	15.558	35.610	6.980	0.00	0.00	H
ATOM	1838	HG22	THR	116	16.775	36.800	6.879	0.00	0.00	H
ATOM	1839	HG23	THR	116	17.053	35.084	6.265	0.00	0.00	H
ATOM	1840	N	LYS	117	14.821	35.198	10.768	0.00	0.00	N
ATOM	1841	CA	LYS	117	13.371	35.081	11.158	0.00	0.00	C
ATOM	1842	C	LYS	117	12.908	36.409	11.842	0.00	0.00	C
ATOM	1843	O	LYS	117	11.818	36.926	11.564	0.00	0.00	O
ATOM	1844	CB	LYS	117	13.221	33.833	12.078	0.00	0.00	C
ATOM	1845	CG	LYS	117	11.737	33.394	12.311	0.00	0.00	C
ATOM	1846	CD	LYS	117	11.724	32.227	13.316	0.00	0.00	C
ATOM	1847	CE	LYS	117	12.579	30.990	12.887	0.00	0.00	C
ATOM	1848	NZ	LYS	117	11.833	29.778	13.208	0.00	0.00	N1+
ATOM	1849	H	LYS	117	15.490	34.687	11.325	0.00	0.00	H
ATOM	1850	HA	LYS	117	12.690	35.019	10.309	0.00	0.00	H
ATOM	1851	HB2	LYS	117	13.815	32.997	11.707	0.00	0.00	H
ATOM	1852	HB3	LYS	117	13.533	34.154	13.071	0.00	0.00	H
ATOM	1853	HG2	LYS	117	11.206	34.252	12.724	0.00	0.00	H
ATOM	1854	HG3	LYS	117	11.249	33.064	11.395	0.00	0.00	H
ATOM	1855	HD2	LYS	117	12.139	32.612	14.246	0.00	0.00	H
ATOM	1856	HD3	LYS	117	10.704	31.867	13.457	0.00	0.00	H
ATOM	1857	HE2	LYS	117	12.645	30.967	11.799	0.00	0.00	H
ATOM	1858	HE3	LYS	117	13.553	30.885	13.367	0.00	0.00	H
ATOM	1859	HZ1	LYS	117	10.934	29.765	12.747	0.00	0.00	H
ATOM	1860	HZ2	LYS	117	12.256	28.963	12.789	0.00	0.00	H
ATOM	1861	HZ3	LYS	117	11.759	29.700	14.212	0.00	0.00	H
ATOM	1862	N	ILE	118	13.724	36.936	12.783	0.00	0.00	N
ATOM	1863	CA	ILE	118	13.344	38.020	13.766	0.00	0.00	C
ATOM	1864	C	ILE	118	13.843	39.464	13.353	0.00	0.00	C
ATOM	1865	O	ILE	118	13.436	40.391	14.027	0.00	0.00	O
ATOM	1866	CB	ILE	118	13.739	37.721	15.241	0.00	0.00	C
ATOM	1867	CG1	ILE	118	15.213	37.914	15.574	0.00	0.00	C
ATOM	1868	CG2	ILE	118	13.240	36.374	15.625	0.00	0.00	C
ATOM	1869	CD1	ILE	118	15.525	37.755	17.065	0.00	0.00	C
ATOM	1870	H	ILE	118	14.644	36.533	12.889	0.00	0.00	H
ATOM	1871	HA	ILE	118	12.267	38.179	13.798	0.00	0.00	H
ATOM	1872	HB	ILE	118	13.132	38.443	15.789	0.00	0.00	H
ATOM	1873	HG12	ILE	118	15.815	37.193	15.020	0.00	0.00	H
ATOM	1874	HG13	ILE	118	15.377	38.943	15.258	0.00	0.00	H
ATOM	1875	HG21	ILE	118	13.975	35.583	15.483	0.00	0.00	H
ATOM	1876	HG22	ILE	118	13.127	36.363	16.708	0.00	0.00	H
ATOM	1877	HG23	ILE	118	12.272	36.101	15.203	0.00	0.00	H
ATOM	1878	HD11	ILE	118	14.663	38.062	17.657	0.00	0.00	H
ATOM	1879	HD12	ILE	118	15.904	36.768	17.329	0.00	0.00	H
ATOM	1880	HD13	ILE	118	16.331	38.439	17.329	0.00	0.00	H
ATOM	1881	N	ALA	119	14.653	39.613	12.297	0.00	0.00	N
ATOM	1882	CA	ALA	119	15.321	40.829	11.858	0.00	0.00	C
ATOM	1883	C	ALA	119	14.846	41.407	10.437	0.00	0.00	C
ATOM	1884	O	ALA	119	14.917	42.588	10.223	0.00	0.00	O
ATOM	1885	CB	ALA	119	16.847	40.636	11.717	0.00	0.00	C
ATOM	1886	H	ALA	119	15.073	38.736	12.026	0.00	0.00	H
ATOM	1887	HA	ALA	119	15.109	41.569	12.630	0.00	0.00	H
ATOM	1888	HB1	ALA	119	17.247	39.833	11.099	0.00	0.00	H
ATOM	1889	HB2	ALA	119	17.243	41.601	11.402	0.00	0.00	H
ATOM	1890	HB3	ALA	119	17.313	40.361	12.663	0.00	0.00	H
ATOM	1891	N	THR	120	14.297	40.554	9.574	0.00	0.00	N
ATOM	1892	CA	THR	120	14.146	40.897	8.117	0.00	0.00	C
ATOM	1893	C	THR	120	12.929	41.898	7.951	0.00	0.00	C
ATOM	1894	O	THR	120	12.917	42.598	6.954	0.00	0.00	O
ATOM	1895	CB	THR	120	13.975	39.726	7.141	0.00	0.00	C
ATOM	1896	CG2	THR	120	14.140	40.087	5.689	0.00	0.00	C
ATOM	1897	OG1	THR	120	14.914	38.731	7.385	0.00	0.00	O
ATOM	1898	H	THR	120	14.333	39.554	9.710	0.00	0.00	H
ATOM	1899	HA	THR	120	15.065	41.412	7.836	0.00	0.00	H
ATOM	1900	HB	THR	120	12.974	39.313	7.266	0.00	0.00	H
ATOM	1901	HG1	THR	120	14.487	37.982	7.806	0.00	0.00	H
ATOM	1902	HG21	THR	120	13.454	40.844	5.311	0.00	0.00	H
ATOM	1903	HG22	THR	120	15.128	40.512	5.510	0.00	0.00	H
ATOM	1904	HG23	THR	120	14.127	39.218	5.031	0.00	0.00	H
ATOM	1905	N	SER	121	12.109	42.092	9.008	0.00	0.00	N
ATOM	1906	CA	SER	121	11.099	43.157	9.035	0.00	0.00	C
ATOM	1907	C	SER	121	11.339	44.120	10.227	0.00	0.00	C

ATOM	1908	O	SER	121	10.574	45.004	10.540	0.00	0.00	O
ATOM	1909	CB	SER	121	9.624	42.652	9.086	0.00	0.00	C
ATOM	1910	OG	SER	121	9.228	42.242	7.765	0.00	0.00	O
ATOM	1911	H	SER	121	12.248	41.486	9.804	0.00	0.00	H
ATOM	1912	HA	SER	121	11.253	43.777	8.152	0.00	0.00	H
ATOM	1913	HB2	SER	121	9.618	41.748	9.696	0.00	0.00	H
ATOM	1914	HB3	SER	121	8.969	43.470	9.385	0.00	0.00	H
ATOM	1915	HG	SER	121	9.315	43.036	7.233	0.00	0.00	H
ATOM	1916	N	LEU	122	12.603	44.045	10.848	0.00	0.00	N
ATOM	1917	CA	LEU	122	12.942	44.936	11.934	0.00	0.00	C
ATOM	1918	C	LEU	122	12.925	46.460	11.624	0.00	0.00	C
ATOM	1919	O	LEU	122	12.677	47.308	12.444	0.00	0.00	O
ATOM	1920	CB	LEU	122	14.239	44.560	12.612	0.00	0.00	C
ATOM	1921	CG	LEU	122	14.703	45.395	13.836	0.00	0.00	C
ATOM	1922	CD1	LEU	122	13.629	45.460	14.893	0.00	0.00	C
ATOM	1923	CD2	LEU	122	16.009	44.879	14.497	0.00	0.00	C
ATOM	1924	H	LEU	122	13.390	43.563	10.441	0.00	0.00	H
ATOM	1925	HA	LEU	122	12.113	44.720	12.606	0.00	0.00	H
ATOM	1926	HB2	LEU	122	14.366	43.555	13.017	0.00	0.00	H
ATOM	1927	HB3	LEU	122	15.006	44.769	11.867	0.00	0.00	H
ATOM	1928	HG	LEU	122	14.883	46.409	13.482	0.00	0.00	H
ATOM	1929	HD11	LEU	122	13.581	44.502	15.411	0.00	0.00	H
ATOM	1930	HD12	LEU	122	12.651	45.661	14.455	0.00	0.00	H
ATOM	1931	HD13	LEU	122	13.751	46.269	15.613	0.00	0.00	H
ATOM	1932	HD21	LEU	122	15.708	44.175	15.271	0.00	0.00	H
ATOM	1933	HD22	LEU	122	16.754	44.438	13.834	0.00	0.00	H
ATOM	1934	HD23	LEU	122	16.497	45.673	15.062	0.00	0.00	H
ATOM	1935	N	PHE	123	13.222	46.893	10.371	0.00	0.00	N
ATOM	1936	CA	PHE	123	13.525	48.221	9.982	0.00	0.00	C
ATOM	1937	C	PHE	123	12.535	48.762	8.976	0.00	0.00	C
ATOM	1938	O	PHE	123	12.590	49.951	8.660	0.00	0.00	O
ATOM	1939	CB	PHE	123	14.962	48.288	9.479	0.00	0.00	C
ATOM	1940	CG	PHE	123	15.944	47.920	10.531	0.00	0.00	C
ATOM	1941	CD1	PHE	123	16.107	48.737	11.709	0.00	0.00	C
ATOM	1942	CD2	PHE	123	16.714	46.771	10.323	0.00	0.00	C
ATOM	1943	CE1	PHE	123	16.874	48.227	12.790	0.00	0.00	C
ATOM	1944	CE2	PHE	123	17.350	46.156	11.461	0.00	0.00	C
ATOM	1945	CZ	PHE	123	17.542	46.960	12.592	0.00	0.00	C
ATOM	1946	H	PHE	123	13.565	46.233	9.688	0.00	0.00	H
ATOM	1947	HA	PHE	123	13.426	48.794	10.904	0.00	0.00	H
ATOM	1948	HB2	PHE	123	15.058	47.670	8.587	0.00	0.00	H
ATOM	1949	HB3	PHE	123	15.190	49.270	9.066	0.00	0.00	H
ATOM	1950	HD1	PHE	123	15.457	49.584	11.867	0.00	0.00	H
ATOM	1951	HD2	PHE	123	16.682	46.292	9.355	0.00	0.00	H
ATOM	1952	HE1	PHE	123	16.972	48.755	13.727	0.00	0.00	H
ATOM	1953	HE2	PHE	123	17.821	45.190	11.355	0.00	0.00	H
ATOM	1954	HZ	PHE	123	18.131	46.647	13.440	0.00	0.00	H
ATOM	1955	N	GLU	124	11.583	47.978	8.451	0.00	0.00	N
ATOM	1956	CA	GLU	124	10.518	48.473	7.518	0.00	0.00	C
ATOM	1957	C	GLU	124	9.629	49.615	8.160	0.00	0.00	C
ATOM	1958	O	GLU	124	9.278	50.613	7.542	0.00	0.00	O
ATOM	1959	CB	GLU	124	9.616	47.327	7.045	0.00	0.00	C
ATOM	1960	CG	GLU	124	10.431	46.412	6.078	0.00	0.00	C
ATOM	1961	CD	GLU	124	9.716	45.190	5.408	0.00	0.00	C
ATOM	1962	OE1	GLU	124	9.165	44.279	6.091	0.00	0.00	O
ATOM	1963	OE2	GLU	124	9.752	45.161	4.147	0.00	0.00	O1-
ATOM	1964	H	GLU	124	11.459	47.013	8.721	0.00	0.00	H
ATOM	1965	HA	GLU	124	10.974	48.992	6.676	0.00	0.00	H
ATOM	1966	HB2	GLU	124	9.127	46.764	7.839	0.00	0.00	H
ATOM	1967	HB3	GLU	124	8.704	47.712	6.591	0.00	0.00	H
ATOM	1968	HG2	GLU	124	11.265	46.015	6.657	0.00	0.00	H
ATOM	1969	HG3	GLU	124	10.873	47.069	5.330	0.00	0.00	H
ATOM	1970	N	SER	125	9.318	49.450	9.457	0.00	0.00	N
ATOM	1971	CA	SER	125	8.482	50.420	10.192	0.00	0.00	C
ATOM	1972	C	SER	125	9.367	51.495	10.876	0.00	0.00	C
ATOM	1973	O	SER	125	9.028	52.003	11.935	0.00	0.00	O
ATOM	1974	CB	SER	125	7.611	49.621	11.131	0.00	0.00	C
ATOM	1975	OG	SER	125	8.232	48.710	11.874	0.00	0.00	O
ATOM	1976	H	SER	125	9.420	48.543	9.886	0.00	0.00	H
ATOM	1977	HA	SER	125	7.871	50.990	9.492	0.00	0.00	H
ATOM	1978	HB2	SER	125	7.170	50.357	11.803	0.00	0.00	H
ATOM	1979	HB3	SER	125	6.780	49.057	10.704	0.00	0.00	H
ATOM	1980	HG	SER	125	8.483	47.985	11.296	0.00	0.00	H
ATOM	1981	N	GLY	126	10.422	51.933	10.170	0.00	0.00	N
ATOM	1982	CA	GLY	126	11.339	52.910	10.667	0.00	0.00	C
ATOM	1983	C	GLY	126	12.538	52.267	11.351	0.00	0.00	C
ATOM	1984	O	GLY	126	12.593	51.192	11.930	0.00	0.00	O
ATOM	1985	H	GLY	126	10.461	51.657	9.200	0.00	0.00	H
ATOM	1986	HA2	GLY	126	11.682	53.634	9.928	0.00	0.00	H
ATOM	1987	HA3	GLY	126	10.868	53.481	11.467	0.00	0.00	H
ATOM	1988	N	ILE	127	13.602	53.007	11.381	0.00	0.00	N
ATOM	1989	CA	ILE	127	14.930	52.655	11.946	0.00	0.00	C
ATOM	1990	C	ILE	127	15.410	53.775	12.883	0.00	0.00	C
ATOM	1991	O	ILE	127	15.332	54.935	12.553	0.00	0.00	O
ATOM	1992	CB	ILE	127	15.901	52.378	10.793	0.00	0.00	C
ATOM	1993	CG1	ILE	127	17.372	51.887	11.197	0.00	0.00	C
ATOM	1994	CG2	ILE	127	16.003	53.605	9.843	0.00	0.00	C
ATOM	1995	CD1	ILE	127	18.268	51.343	10.130	0.00	0.00	C
ATOM	1996	H	ILE	127	13.595	53.911	10.929	0.00	0.00	H
ATOM	1997	HA	ILE	127	14.928	51.678	12.431	0.00	0.00	H
ATOM	1998	HB	ILE	127	15.444	51.589	10.194	0.00	0.00	H
ATOM	1999	HG12	ILE	127	17.960	52.697	11.629	0.00	0.00	H
ATOM	2000	HG13	ILE	127	17.299	51.143	11.991	0.00	0.00	H
ATOM	2001	HG21	ILE	127	16.596	53.317	8.975	0.00	0.00	H
ATOM	2002	HG22	ILE	127	15.014	54.008	9.626	0.00	0.00	H
ATOM	2003	HG23	ILE	127	16.422	54.492	10.319	0.00	0.00	H
ATOM	2004	HD11	ILE	127	19.071	50.727	10.534	0.00	0.00	H
ATOM	2005	HD12	ILE	127	17.627	50.755	9.474	0.00	0.00	H
ATOM	2006	HD13	ILE	127	18.822	52.064	9.529	0.00	0.00	H
ATOM	2007	N	ASN	128	15.858	53.269	14.038	0.00	0.00	N
ATOM	2008	CA	ASN	128	16.336	54.108	15.226	0.00	0.00	C
ATOM	2009	C	ASN	128	17.414	53.432	16.113	0.00	0.00	C
ATOM	2010	O	ASN	128	17.609	52.210	15.920	0.00	0.00	O
ATOM	2011	CB	ASN	128	15.087	54.458	16.002	0.00	0.00	C
ATOM	2012	CG	ASN	128	14.548	53.258	16.825	0.00	0.00	C

ATOM	2013	ND2	ASN	128	13.283	52.946	16.500	0.00	0.00	N
ATOM	2014	OD1	ASN	128	15.205	52.544	17.580	0.00	0.00	O
ATOM	2015	H	ASN	128	15.583	52.315	14.230	0.00	0.00	H
ATOM	2016	HA	ASN	128	16.678	55.092	14.902	0.00	0.00	H
ATOM	2017	HB2	ASN	128	15.411	55.254	16.672	0.00	0.00	H
ATOM	2018	HB3	ASN	128	14.266	54.798	15.372	0.00	0.00	H
ATOM	2019	HD21	ASN	128	12.796	52.296	17.100	0.00	0.00	H
ATOM	2020	HD22	ASN	128	12.709	53.557	15.937	0.00	0.00	H
ATOM	2021	N	TRP	129	17.992	54.162	17.066	0.00	0.00	N
ATOM	2022	CA	TRP	129	19.158	53.612	17.851	0.00	0.00	C
ATOM	2023	C	TRP	129	18.845	52.446	18.854	0.00	0.00	C
ATOM	2024	O	TRP	129	19.637	51.499	19.030	0.00	0.00	O
ATOM	2025	CB	TRP	129	20.032	54.599	18.524	0.00	0.00	C
ATOM	2026	CG	TRP	129	21.227	54.973	17.652	0.00	0.00	C
ATOM	2027	CD1	TRP	129	21.315	56.214	17.060	0.00	0.00	C
ATOM	2028	CD2	TRP	129	22.430	54.297	17.179	0.00	0.00	C
ATOM	2029	CE2	TRP	129	23.204	55.205	16.404	0.00	0.00	C
ATOM	2030	CE3	TRP	129	22.890	53.051	17.604	0.00	0.00	C
ATOM	2031	NE1	TRP	129	22.492	56.327	16.343	0.00	0.00	N
ATOM	2032	CZ2	TRP	129	24.429	54.822	16.004	0.00	0.00	C
ATOM	2033	CZ3	TRP	129	24.116	52.658	17.012	0.00	0.00	C
ATOM	2034	CH2	TRP	129	24.891	53.519	16.175	0.00	0.00	C
ATOM	2035	H	TRP	129	17.721	55.134	17.126	0.00	0.00	H
ATOM	2036	HA	TRP	129	19.782	53.073	17.136	0.00	0.00	H
ATOM	2037	HB2	TRP	129	19.461	55.460	18.872	0.00	0.00	H
ATOM	2038	HB3	TRP	129	20.479	54.101	19.385	0.00	0.00	H
ATOM	2039	HD1	TRP	129	20.556	56.982	17.078	0.00	0.00	H
ATOM	2040	HE1	TRP	129	22.614	57.112	15.720	0.00	0.00	H
ATOM	2041	HE3	TRP	129	22.322	52.574	18.388	0.00	0.00	H
ATOM	2042	HZ2	TRP	129	25.059	55.476	15.420	0.00	0.00	H
ATOM	2043	HZ3	TRP	129	24.524	51.664	17.126	0.00	0.00	H
ATOM	2044	HH2	TRP	129	25.760	53.106	15.684	0.00	0.00	H
ATOM	2045	N	GLY	130	17.621	52.421	19.412	0.00	0.00	N
ATOM	2046	CA	GLY	130	17.080	51.287	20.137	0.00	0.00	C
ATOM	2047	C	GLY	130	16.958	50.045	19.265	0.00	0.00	C
ATOM	2048	O	GLY	130	17.497	48.960	19.653	0.00	0.00	O
ATOM	2049	H	GLY	130	16.998	53.163	19.126	0.00	0.00	H
ATOM	2050	HA2	GLY	130	17.710	51.014	20.983	0.00	0.00	H
ATOM	2051	HA3	GLY	130	16.089	51.461	20.556	0.00	0.00	H
ATOM	2052	N	ARG	131	16.396	50.068	18.107	0.00	0.00	N
ATOM	2053	CA	ARG	131	16.256	48.920	17.216	0.00	0.00	C
ATOM	2054	C	ARG	131	17.524	48.359	16.835	0.00	0.00	C
ATOM	2055	O	ARG	131	17.640	47.143	16.838	0.00	0.00	O
ATOM	2056	CB	ARG	131	15.432	49.477	16.091	0.00	0.00	C
ATOM	2057	CG	ARG	131	13.903	49.435	16.374	0.00	0.00	C
ATOM	2058	CD	ARG	131	13.007	49.532	15.114	0.00	0.00	C
ATOM	2059	NE	ARG	131	11.661	49.996	15.414	0.00	0.00	N
ATOM	2060	CZ	ARG	131	10.591	49.900	14.685	0.00	0.00	C
ATOM	2061	NH1	ARG	131	10.549	49.662	13.420	0.00	0.00	N1+
ATOM	2062	NH2	ARG	131	9.494	49.997	15.273	0.00	0.00	N
ATOM	2063	H	ARG	131	15.973	50.938	17.815	0.00	0.00	H
ATOM	2064	HA	ARG	131	15.714	48.093	17.677	0.00	0.00	H
ATOM	2065	HB2	ARG	131	15.819	50.424	15.715	0.00	0.00	H
ATOM	2066	HB3	ARG	131	15.464	48.756	15.275	0.00	0.00	H
ATOM	2067	HG2	ARG	131	13.675	48.460	16.805	0.00	0.00	H
ATOM	2068	HG3	ARG	131	13.618	50.264	17.023	0.00	0.00	H
ATOM	2069	HD2	ARG	131	13.517	50.350	14.604	0.00	0.00	H
ATOM	2070	HD3	ARG	131	12.938	48.676	14.443	0.00	0.00	H
ATOM	2071	HE	ARG	131	11.484	50.222	16.382	0.00	0.00	H
ATOM	2072	HH11	ARG	131	11.444	49.518	12.973	0.00	0.00	H
ATOM	2073	HH12	ARG	131	9.722	49.364	12.922	0.00	0.00	H
ATOM	2074	HH21	ARG	131	9.505	50.628	16.063	0.00	0.00	H
ATOM	2075	HH22	ARG	131	8.613	49.930	14.782	0.00	0.00	H
ATOM	2076	N	VAL	132	18.536	49.144	16.479	0.00	0.00	N
ATOM	2077	CA	VAL	132	19.851	48.706	16.178	0.00	0.00	C
ATOM	2078	C	VAL	132	20.596	48.273	17.449	0.00	0.00	C
ATOM	2079	O	VAL	132	21.218	47.142	17.328	0.00	0.00	O
ATOM	2080	CB	VAL	132	20.759	49.732	15.455	0.00	0.00	C
ATOM	2081	CG1	VAL	132	22.218	49.291	15.140	0.00	0.00	C
ATOM	2082	CG2	VAL	132	20.108	50.159	14.146	0.00	0.00	C
ATOM	2083	H	VAL	132	18.347	50.135	16.428	0.00	0.00	H
ATOM	2084	HA	VAL	132	19.744	47.818	15.556	0.00	0.00	H
ATOM	2085	HB	VAL	132	20.692	50.566	16.155	0.00	0.00	H
ATOM	2086	HG11	VAL	132	22.162	48.528	14.365	0.00	0.00	H
ATOM	2087	HG12	VAL	132	22.758	50.066	14.597	0.00	0.00	H
ATOM	2088	HG13	VAL	132	22.794	49.025	16.027	0.00	0.00	H
ATOM	2089	HG21	VAL	132	19.358	50.932	14.321	0.00	0.00	H
ATOM	2090	HG22	VAL	132	20.855	50.634	13.510	0.00	0.00	H
ATOM	2091	HG23	VAL	132	19.737	49.376	13.486	0.00	0.00	H
ATOM	2092	N	VAL	133	20.548	48.968	18.680	0.00	0.00	N
ATOM	2093	CA	VAL	133	21.225	48.493	19.875	0.00	0.00	C
ATOM	2094	C	VAL	133	20.607	47.136	20.317	0.00	0.00	C
ATOM	2095	O	VAL	133	21.299	46.233	20.707	0.00	0.00	O
ATOM	2096	CB	VAL	133	21.290	49.566	21.021	0.00	0.00	C
ATOM	2097	CG1	VAL	133	21.612	48.999	22.397	0.00	0.00	C
ATOM	2098	CG2	VAL	133	22.391	50.571	20.695	0.00	0.00	C
ATOM	2099	H	VAL	133	20.238	49.929	18.677	0.00	0.00	H
ATOM	2100	HA	VAL	133	22.281	48.265	19.728	0.00	0.00	H
ATOM	2101	HB	VAL	133	20.319	50.060	21.056	0.00	0.00	H
ATOM	2102	HG11	VAL	133	20.885	48.217	22.614	0.00	0.00	H
ATOM	2103	HG12	VAL	133	22.644	48.653	22.350	0.00	0.00	H
ATOM	2104	HG13	VAL	133	21.531	49.808	23.122	0.00	0.00	H
ATOM	2105	HG21	VAL	133	23.321	50.056	20.456	0.00	0.00	H
ATOM	2106	HG22	VAL	133	22.012	51.215	19.901	0.00	0.00	H
ATOM	2107	HG23	VAL	133	22.596	51.112	21.619	0.00	0.00	H
ATOM	2108	N	ALA	134	19.309	46.874	20.090	0.00	0.00	N
ATOM	2109	CA	ALA	134	18.627	45.613	20.523	0.00	0.00	C
ATOM	2110	C	ALA	134	18.951	44.372	19.671	0.00	0.00	C
ATOM	2111	O	ALA	134	18.913	43.265	20.184	0.00	0.00	O
ATOM	2112	CB	ALA	134	17.115	45.869	20.587	0.00	0.00	C
ATOM	2113	H	ALA	134	18.722	47.616	19.737	0.00	0.00	H
ATOM	2114	HA	ALA	134	18.975	45.473	21.546	0.00	0.00	H
ATOM	2115	HB1	ALA	134	16.919	46.642	21.331	0.00	0.00	H
ATOM	2116	HB2	ALA	134	16.699	46.034	19.593	0.00	0.00	H
ATOM	2117	HB3	ALA	134	16.549	45.022	20.973	0.00	0.00	H

ATOM	2118	N	LEU	135	19.304	44.577	18.398	0.00	0.00	N
ATOM	2119	CA	LEU	135	19.799	43.548	17.494	0.00	0.00	C
ATOM	2120	C	LEU	135	21.263	43.123	17.756	0.00	0.00	C
ATOM	2121	O	LEU	135	21.576	41.933	17.649	0.00	0.00	O
ATOM	2122	CB	LEU	135	19.563	44.060	16.108	0.00	0.00	C
ATOM	2123	CG	LEU	135	19.969	43.042	15.011	0.00	0.00	C
ATOM	2124	CD1	LEU	135	18.896	41.961	14.740	0.00	0.00	C
ATOM	2125	CD2	LEU	135	20.084	43.678	13.615	0.00	0.00	C
ATOM	2126	H	LEU	135	19.306	45.531	18.068	0.00	0.00	H
ATOM	2127	HA	LEU	135	19.261	42.626	17.712	0.00	0.00	H
ATOM	2128	HB2	LEU	135	18.509	44.310	15.985	0.00	0.00	H
ATOM	2129	HB3	LEU	135	20.098	44.984	15.886	0.00	0.00	H
ATOM	2130	HG	LEU	135	20.930	42.554	15.171	0.00	0.00	H
ATOM	2131	HD11	LEU	135	17.931	42.461	14.668	0.00	0.00	H
ATOM	2132	HD12	LEU	135	19.142	41.371	13.857	0.00	0.00	H
ATOM	2133	HD13	LEU	135	18.769	41.356	15.638	0.00	0.00	H
ATOM	2134	HD21	LEU	135	20.997	44.274	13.585	0.00	0.00	H
ATOM	2135	HD22	LEU	135	20.145	42.908	12.846	0.00	0.00	H
ATOM	2136	HD23	LEU	135	19.260	44.376	13.468	0.00	0.00	H
ATOM	2137	N	LEU	136	22.070	44.091	18.213	0.00	0.00	N
ATOM	2138	CA	LEU	136	23.339	43.810	18.822	0.00	0.00	C
ATOM	2139	C	LEU	136	23.157	43.264	20.227	0.00	0.00	C
ATOM	2140	O	LEU	136	24.009	42.496	20.623	0.00	0.00	O
ATOM	2141	CB	LEU	136	24.139	45.089	18.785	0.00	0.00	C
ATOM	2142	CG	LEU	136	24.315	45.571	17.352	0.00	0.00	C
ATOM	2143	CD1	LEU	136	24.731	46.996	17.574	0.00	0.00	C
ATOM	2144	CD2	LEU	136	25.317	44.780	16.528	0.00	0.00	C
ATOM	2145	H	LEU	136	21.703	45.028	18.297	0.00	0.00	H
ATOM	2146	HA	LEU	136	23.888	43.074	18.234	0.00	0.00	H
ATOM	2147	HB2	LEU	136	23.638	45.806	19.437	0.00	0.00	H
ATOM	2148	HB3	LEU	136	25.086	44.903	19.291	0.00	0.00	H
ATOM	2149	HG	LEU	136	23.415	45.652	16.741	0.00	0.00	H
ATOM	2150	HD11	LEU	136	24.562	47.682	16.743	0.00	0.00	H
ATOM	2151	HD12	LEU	136	25.814	47.002	17.688	0.00	0.00	H
ATOM	2152	HD13	LEU	136	24.323	47.553	18.419	0.00	0.00	H
ATOM	2153	HD21	LEU	136	26.255	44.538	17.027	0.00	0.00	H
ATOM	2154	HD22	LEU	136	24.866	43.833	16.234	0.00	0.00	H
ATOM	2155	HD23	LEU	136	25.402	45.480	15.697	0.00	0.00	H
ATOM	2156	N	GLY	137	22.070	43.580	20.970	0.00	0.00	N
ATOM	2157	CA	GLY	137	21.633	42.769	22.169	0.00	0.00	C
ATOM	2158	C	GLY	137	21.398	41.244	21.951	0.00	0.00	C
ATOM	2159	O	GLY	137	21.947	40.425	22.708	0.00	0.00	O
ATOM	2160	H	GLY	137	21.564	44.397	20.657	0.00	0.00	H
ATOM	2161	HA2	GLY	137	22.426	42.822	22.915	0.00	0.00	H
ATOM	2162	HA3	GLY	137	20.797	43.217	22.705	0.00	0.00	H
ATOM	2163	N	PHE	138	20.646	40.910	20.891	0.00	0.00	N
ATOM	2164	CA	PHE	138	20.420	39.528	20.526	0.00	0.00	C
ATOM	2165	C	PHE	138	21.697	38.971	19.958	0.00	0.00	C
ATOM	2166	O	PHE	138	22.082	37.851	20.384	0.00	0.00	O
ATOM	2167	CB	PHE	138	19.214	39.366	19.584	0.00	0.00	C
ATOM	2168	CG	PHE	138	18.904	37.944	19.096	0.00	0.00	C
ATOM	2169	CD1	PHE	138	18.832	36.897	20.001	0.00	0.00	C
ATOM	2170	CD2	PHE	138	18.862	37.594	17.751	0.00	0.00	C
ATOM	2171	CE1	PHE	138	18.788	35.504	19.674	0.00	0.00	C
ATOM	2172	CE2	PHE	138	18.685	36.283	17.327	0.00	0.00	C
ATOM	2173	CZ	PHE	138	18.592	35.277	18.291	0.00	0.00	C
ATOM	2174	H	PHE	138	19.969	41.577	20.550	0.00	0.00	H
ATOM	2175	HA	PHE	138	20.169	38.936	21.406	0.00	0.00	H
ATOM	2176	HB2	PHE	138	18.384	39.828	20.120	0.00	0.00	H
ATOM	2177	HB3	PHE	138	19.450	40.032	18.755	0.00	0.00	H
ATOM	2178	HD1	PHE	138	18.856	37.145	21.053	0.00	0.00	H
ATOM	2179	HD2	PHE	138	18.913	38.365	16.998	0.00	0.00	H
ATOM	2180	HE1	PHE	138	18.636	34.802	20.480	0.00	0.00	H
ATOM	2181	HE2	PHE	138	18.613	36.068	16.271	0.00	0.00	H
ATOM	2182	HZ	PHE	138	18.430	34.244	18.022	0.00	0.00	H
ATOM	2183	N	GLY	139	22.369	39.765	19.151	0.00	0.00	N
ATOM	2184	CA	GLY	139	23.463	39.376	18.293	0.00	0.00	C
ATOM	2185	C	GLY	139	24.696	38.949	19.129	0.00	0.00	C
ATOM	2186	O	GLY	139	25.538	38.168	18.725	0.00	0.00	O
ATOM	2187	H	GLY	139	22.026	40.679	18.894	0.00	0.00	H
ATOM	2188	HA2	GLY	139	23.140	38.482	17.758	0.00	0.00	H
ATOM	2189	HA3	GLY	139	23.758	40.231	17.685	0.00	0.00	H
ATOM	2190	N	TYR	140	24.879	39.647	20.250	0.00	0.00	N
ATOM	2191	CA	TYR	140	25.864	39.182	21.306	0.00	0.00	C
ATOM	2192	C	TYR	140	25.561	37.782	21.892	0.00	0.00	C
ATOM	2193	O	TYR	140	26.425	36.869	21.796	0.00	0.00	O
ATOM	2194	CB	TYR	140	25.826	40.201	22.423	0.00	0.00	C
ATOM	2195	CG	TYR	140	26.826	39.869	23.553	0.00	0.00	C
ATOM	2196	CD1	TYR	140	27.932	39.061	23.321	0.00	0.00	C
ATOM	2197	CD2	TYR	140	26.408	40.135	24.860	0.00	0.00	C
ATOM	2198	CE1	TYR	140	28.705	38.806	24.466	0.00	0.00	C
ATOM	2199	CE2	TYR	140	27.085	39.681	25.996	0.00	0.00	C
ATOM	2200	CZ	TYR	140	28.334	39.046	25.766	0.00	0.00	C
ATOM	2201	OH	TYR	140	29.128	38.729	26.808	0.00	0.00	O
ATOM	2202	H	TYR	140	24.303	40.465	20.384	0.00	0.00	H
ATOM	2203	HA	TYR	140	26.807	39.177	20.759	0.00	0.00	H
ATOM	2204	HB2	TYR	140	26.003	41.200	22.026	0.00	0.00	H
ATOM	2205	HB3	TYR	140	24.855	40.249	22.913	0.00	0.00	H
ATOM	2206	HD1	TYR	140	28.291	38.840	22.326	0.00	0.00	H
ATOM	2207	HD2	TYR	140	25.447	40.604	25.010	0.00	0.00	H
ATOM	2208	HE1	TYR	140	29.653	38.313	24.305	0.00	0.00	H
ATOM	2209	HE2	TYR	140	26.754	39.964	26.985	0.00	0.00	H
ATOM	2210	HH	TYR	140	28.713	38.967	27.640	0.00	0.00	H
ATOM	2211	N	ARG	141	24.357	37.595	22.384	0.00	0.00	N
ATOM	2212	CA	ARG	141	23.957	36.301	23.016	0.00	0.00	C
ATOM	2213	C	ARG	141	23.909	35.114	22.026	0.00	0.00	C
ATOM	2214	O	ARG	141	24.495	34.041	22.333	0.00	0.00	O
ATOM	2215	CB	ARG	141	22.622	36.430	23.819	0.00	0.00	C
ATOM	2216	CG	ARG	141	22.792	37.292	25.040	0.00	0.00	C
ATOM	2217	CD	ARG	141	23.727	36.844	26.133	0.00	0.00	C
ATOM	2218	NE	ARG	141	23.576	37.549	27.376	0.00	0.00	N
ATOM	2219	CZ	ARG	141	24.448	37.971	28.253	0.00	0.00	C
ATOM	2220	NH1	ARG	141	25.688	37.682	28.139	0.00	0.00	N1+
ATOM	2221	NH2	ARG	141	24.150	38.832	29.150	0.00	0.00	N
ATOM	2222	H	ARG	141	23.702	38.362	22.322	0.00	0.00	H

ATOM	2223	HA	ARG	141	24.809	36.001	23.626	0.00	0.00	H
ATOM	2224	HB2	ARG	141	21.928	36.897	23.120	0.00	0.00	H
ATOM	2225	HB3	ARG	141	22.206	35.468	24.120	0.00	0.00	H
ATOM	2226	HG2	ARG	141	23.164	38.286	24.791	0.00	0.00	H
ATOM	2227	HG3	ARG	141	21.784	37.386	25.445	0.00	0.00	H
ATOM	2228	HD2	ARG	141	23.462	35.811	26.363	0.00	0.00	H
ATOM	2229	HD3	ARG	141	24.745	36.841	25.742	0.00	0.00	H
ATOM	2230	HE	ARG	141	22.635	37.714	27.704	0.00	0.00	H
ATOM	2231	HH11	ARG	141	26.117	37.069	27.461	0.00	0.00	H
ATOM	2232	HH12	ARG	141	26.322	38.162	28.761	0.00	0.00	H
ATOM	2233	HH21	ARG	141	23.209	39.197	29.148	0.00	0.00	H
ATOM	2234	HH22	ARG	141	24.853	39.076	29.833	0.00	0.00	H
ATOM	2235	N	LEU	142	23.358	35.276	20.819	0.00	0.00	N
ATOM	2236	CA	LEU	142	23.460	34.238	19.790	0.00	0.00	C
ATOM	2237	C	LEU	142	24.881	33.849	19.320	0.00	0.00	C
ATOM	2238	O	LEU	142	25.167	32.655	19.183	0.00	0.00	O
ATOM	2239	CB	LEU	142	22.596	34.711	18.586	0.00	0.00	C
ATOM	2240	CG	LEU	142	22.362	33.715	17.446	0.00	0.00	C
ATOM	2241	CD1	LEU	142	21.546	32.511	17.978	0.00	0.00	C
ATOM	2242	CD2	LEU	142	21.557	34.397	16.348	0.00	0.00	C
ATOM	2243	H	LEU	142	23.028	36.194	20.557	0.00	0.00	H
ATOM	2244	HA	LEU	142	22.935	33.331	20.090	0.00	0.00	H
ATOM	2245	HB2	LEU	142	21.605	35.020	18.918	0.00	0.00	H
ATOM	2246	HB3	LEU	142	23.122	35.591	18.218	0.00	0.00	H
ATOM	2247	HG	LEU	142	23.321	33.317	17.111	0.00	0.00	H
ATOM	2248	HD11	LEU	142	21.332	31.719	17.261	0.00	0.00	H
ATOM	2249	HD12	LEU	142	22.100	32.028	18.785	0.00	0.00	H
ATOM	2250	HD13	LEU	142	20.570	32.809	18.360	0.00	0.00	H
ATOM	2251	HD21	LEU	142	21.947	35.403	16.194	0.00	0.00	H
ATOM	2252	HD22	LEU	142	21.628	33.919	15.371	0.00	0.00	H
ATOM	2253	HD23	LEU	142	20.502	34.435	16.619	0.00	0.00	H
ATOM	2254	N	ALA	143	25.769	34.851	19.140	0.00	0.00	N
ATOM	2255	CA	ALA	143	27.210	34.737	18.868	0.00	0.00	C
ATOM	2256	C	ALA	143	27.926	34.055	20.025	0.00	0.00	C
ATOM	2257	O	ALA	143	28.727	33.113	19.836	0.00	0.00	O
ATOM	2258	CB	ALA	143	27.871	36.075	18.578	0.00	0.00	C
ATOM	2259	H	ALA	143	25.408	35.795	19.148	0.00	0.00	H
ATOM	2260	HA	ALA	143	27.408	34.057	18.041	0.00	0.00	H
ATOM	2261	HB1	ALA	143	27.508	36.471	17.630	0.00	0.00	H
ATOM	2262	HB2	ALA	143	27.663	36.750	19.410	0.00	0.00	H
ATOM	2263	HB3	ALA	143	28.951	35.936	18.561	0.00	0.00	H
ATOM	2264	N	LEU	144	27.646	34.412	21.287	0.00	0.00	N
ATOM	2265	CA	LEU	144	28.036	33.619	22.409	0.00	0.00	C
ATOM	2266	C	LEU	144	27.440	32.151	22.439	0.00	0.00	C
ATOM	2267	O	LEU	144	28.212	31.247	22.771	0.00	0.00	O
ATOM	2268	CB	LEU	144	27.614	34.362	23.686	0.00	0.00	C
ATOM	2269	CG	LEU	144	28.022	33.647	25.039	0.00	0.00	C
ATOM	2270	CD1	LEU	144	29.546	33.699	25.257	0.00	0.00	C
ATOM	2271	CD2	LEU	144	27.307	34.374	26.202	0.00	0.00	C
ATOM	2272	H	LEU	144	26.937	35.124	21.390	0.00	0.00	H
ATOM	2273	HA	LEU	144	29.116	33.491	22.465	0.00	0.00	H
ATOM	2274	HB2	LEU	144	28.053	35.359	23.656	0.00	0.00	H
ATOM	2275	HB3	LEU	144	26.552	34.597	23.617	0.00	0.00	H
ATOM	2276	HG	LEU	144	27.829	32.574	25.067	0.00	0.00	H
ATOM	2277	HD11	LEU	144	29.883	34.720	25.082	0.00	0.00	H
ATOM	2278	HD12	LEU	144	29.864	33.270	26.207	0.00	0.00	H
ATOM	2279	HD13	LEU	144	30.051	33.045	24.546	0.00	0.00	H
ATOM	2280	HD21	LEU	144	26.252	34.118	26.108	0.00	0.00	H
ATOM	2281	HD22	LEU	144	27.506	35.438	26.062	0.00	0.00	H
ATOM	2282	HD23	LEU	144	27.697	34.099	27.181	0.00	0.00	H
ATOM	2283	N	HIP	145	26.214	31.885	21.996	0.00	0.00	N
ATOM	2284	CA	HIP	145	25.593	30.531	22.061	0.00	0.00	C
ATOM	2285	C	HIP	145	26.313	29.463	21.176	0.00	0.00	C
ATOM	2286	O	HIP	145	26.210	28.298	21.428	0.00	0.00	O
ATOM	2287	CB	HIP	145	24.106	30.685	21.618	0.00	0.00	C
ATOM	2288	CG	HIP	145	23.327	29.530	22.155	0.00	0.00	C
ATOM	2289	CD2	HIP	145	22.646	29.425	23.336	0.00	0.00	C
ATOM	2290	ND1	HIP	145	23.094	28.330	21.515	0.00	0.00	N1+
ATOM	2291	CE1	HIP	145	22.287	27.531	22.238	0.00	0.00	C
ATOM	2292	NE2	HIP	145	22.022	28.163	23.381	0.00	0.00	N
ATOM	2293	H	HIP	145	25.669	32.640	21.605	0.00	0.00	H
ATOM	2294	HA	HIP	145	25.667	30.158	23.082	0.00	0.00	H
ATOM	2295	HB2	HIP	145	23.652	31.578	22.047	0.00	0.00	H
ATOM	2296	HB3	HIP	145	24.066	30.771	20.532	0.00	0.00	H
ATOM	2297	HD1	HIP	145	23.520	28.117	20.625	0.00	0.00	H
ATOM	2298	HD2	HIP	145	22.546	30.170	24.112	0.00	0.00	H
ATOM	2299	HE1	HIP	145	21.931	26.591	21.843	0.00	0.00	H
ATOM	2300	HE2	HIP	145	21.340	27.922	24.086	0.00	0.00	H
ATOM	2301	N	VAL	146	26.968	29.929	20.111	0.00	0.00	N
ATOM	2302	CA	VAL	146	27.773	29.210	19.157	0.00	0.00	C
ATOM	2303	C	VAL	146	29.219	28.962	19.624	0.00	0.00	C
ATOM	2304	O	VAL	146	29.691	27.847	19.410	0.00	0.00	O
ATOM	2305	CB	VAL	146	27.771	30.077	17.824	0.00	0.00	C
ATOM	2306	CG1	VAL	146	28.726	29.442	16.778	0.00	0.00	C
ATOM	2307	CG2	VAL	146	26.541	30.310	17.083	0.00	0.00	C
ATOM	2308	H	VAL	146	26.933	30.936	20.045	0.00	0.00	H
ATOM	2309	HA	VAL	146	27.296	28.238	19.024	0.00	0.00	H
ATOM	2310	HB	VAL	146	28.121	31.088	18.032	0.00	0.00	H
ATOM	2311	HG11	VAL	146	28.343	28.500	16.386	0.00	0.00	H
ATOM	2312	HG12	VAL	146	28.772	30.166	15.963	0.00	0.00	H
ATOM	2313	HG13	VAL	146	29.743	29.363	17.162	0.00	0.00	H
ATOM	2314	HG21	VAL	146	26.597	31.262	16.554	0.00	0.00	H
ATOM	2315	HG22	VAL	146	26.251	29.529	16.381	0.00	0.00	H
ATOM	2316	HG23	VAL	146	25.751	30.519	17.803	0.00	0.00	H
ATOM	2317	N	TYR	147	29.830	29.895	20.362	0.00	0.00	N
ATOM	2318	CA	TYR	147	31.075	29.829	21.081	0.00	0.00	C
ATOM	2319	C	TYR	147	30.895	28.754	22.181	0.00	0.00	C
ATOM	2320	O	TYR	147	31.693	27.808	22.146	0.00	0.00	O
ATOM	2321	CB	TYR	147	31.453	31.241	21.655	0.00	0.00	C
ATOM	2322	CG	TYR	147	32.880	31.701	22.073	0.00	0.00	C
ATOM	2323	CD1	TYR	147	33.265	31.646	23.446	0.00	0.00	C
ATOM	2324	CD2	TYR	147	33.725	32.293	21.158	0.00	0.00	C
ATOM	2325	CE1	TYR	147	34.529	31.941	23.854	0.00	0.00	C
ATOM	2326	CE2	TYR	147	35.076	32.555	21.553	0.00	0.00	C
ATOM	2327	CZ	TYR	147	35.441	32.296	22.921	0.00	0.00	C

ATOM	2328	OH	TYR	147	36.727	32.598	23.270	0.00	0.00	O
ATOM	2329	H	TYR	147	29.271	30.735	20.413	0.00	0.00	H
ATOM	2330	HA	TYR	147	31.847	29.502	20.384	0.00	0.00	H
ATOM	2331	HB2	TYR	147	31.145	32.049	20.991	0.00	0.00	H
ATOM	2332	HB3	TYR	147	30.860	31.370	22.560	0.00	0.00	H
ATOM	2333	HD1	TYR	147	32.560	31.175	24.115	0.00	0.00	H
ATOM	2334	HD2	TYR	147	33.412	32.440	20.134	0.00	0.00	H
ATOM	2335	HE1	TYR	147	34.839	31.866	24.886	0.00	0.00	H
ATOM	2336	HE2	TYR	147	35.846	32.876	20.867	0.00	0.00	H
ATOM	2337	HH	TYR	147	36.923	32.655	24.207	0.00	0.00	H
ATOM	2338	N	GLN	148	29.904	28.860	22.996	0.00	0.00	N
ATOM	2339	CA	GLN	148	29.497	27.952	24.074	0.00	0.00	C
ATOM	2340	C	GLN	148	29.171	26.502	23.533	0.00	0.00	C
ATOM	2341	O	GLN	148	29.170	25.507	24.289	0.00	0.00	O
ATOM	2342	CB	GLN	148	28.248	28.504	24.865	0.00	0.00	C
ATOM	2343	CG	GLN	148	28.453	29.768	25.693	0.00	0.00	C
ATOM	2344	CD	GLN	148	29.034	29.394	27.067	0.00	0.00	C
ATOM	2345	NE2	GLN	148	28.274	29.374	28.100	0.00	0.00	N
ATOM	2346	OE1	GLN	148	30.200	29.158	27.156	0.00	0.00	O
ATOM	2347	H	GLN	148	29.420	29.745	22.932	0.00	0.00	H
ATOM	2348	HA	GLN	148	30.331	27.858	24.769	0.00	0.00	H
ATOM	2349	HB2	GLN	148	27.350	28.561	24.250	0.00	0.00	H
ATOM	2350	HB3	GLN	148	27.906	27.767	25.591	0.00	0.00	H
ATOM	2351	HG2	GLN	148	29.080	30.487	25.166	0.00	0.00	H
ATOM	2352	HG3	GLN	148	27.497	30.284	25.773	0.00	0.00	H
ATOM	2353	HE21	GLN	148	28.665	29.151	29.003	0.00	0.00	H
ATOM	2354	HE22	GLN	148	27.304	29.647	28.032	0.00	0.00	H
ATOM	2355	N	HIP	149	28.932	26.365	22.190	0.00	0.00	N
ATOM	2356	CA	HIP	149	28.767	25.074	21.522	0.00	0.00	C
ATOM	2357	C	HIP	149	30.128	24.406	21.126	0.00	0.00	C
ATOM	2358	O	HIP	149	30.197	23.608	20.256	0.00	0.00	O
ATOM	2359	CB	HIP	149	27.718	25.106	20.444	0.00	0.00	C
ATOM	2360	CG	HIP	149	27.287	23.758	19.994	0.00	0.00	C
ATOM	2361	CD2	HIP	149	27.493	23.287	18.691	0.00	0.00	C
ATOM	2362	ND1	HIP	149	26.602	22.742	20.696	0.00	0.00	N1+
ATOM	2363	CE1	HIP	149	26.332	21.717	19.858	0.00	0.00	C
ATOM	2364	NE2	HIP	149	26.861	22.067	18.596	0.00	0.00	N
ATOM	2365	H	HIP	149	28.751	27.201	21.651	0.00	0.00	H
ATOM	2366	HA	HIP	149	28.275	24.440	22.260	0.00	0.00	H
ATOM	2367	HB2	HIP	149	26.785	25.556	20.782	0.00	0.00	H
ATOM	2368	HB3	HIP	149	28.059	25.727	19.616	0.00	0.00	H
ATOM	2369	HD1	HIP	149	26.058	22.926	21.526	0.00	0.00	H
ATOM	2370	HD2	HIP	149	27.968	23.890	17.932	0.00	0.00	H
ATOM	2371	HE1	HIP	149	25.811	20.823	20.164	0.00	0.00	H
ATOM	2372	HE2	HIP	149	26.878	21.416	17.825	0.00	0.00	H
ATOM	2373	N	GLY	150	31.256	24.871	21.643	0.00	0.00	N
ATOM	2374	CA	GLY	150	32.645	24.441	21.256	0.00	0.00	C
ATOM	2375	C	GLY	150	33.126	25.112	19.919	0.00	0.00	C
ATOM	2376	O	GLY	150	34.328	25.297	19.747	0.00	0.00	O
ATOM	2377	H	GLY	150	31.240	25.650	22.286	0.00	0.00	H
ATOM	2378	HA2	GLY	150	33.346	24.841	21.988	0.00	0.00	H
ATOM	2379	HA3	GLY	150	32.739	23.356	21.219	0.00	0.00	H
ATOM	2380	N	LEU	151	32.185	25.738	19.165	0.00	0.00	N
ATOM	2381	CA	LEU	151	32.516	26.546	17.981	0.00	0.00	C
ATOM	2382	C	LEU	151	33.168	27.941	18.289	0.00	0.00	C
ATOM	2383	O	LEU	151	32.934	28.918	17.552	0.00	0.00	O
ATOM	2384	CB	LEU	151	31.436	26.589	16.879	0.00	0.00	C
ATOM	2385	CG	LEU	151	30.587	25.318	16.654	0.00	0.00	C
ATOM	2386	CD1	LEU	151	29.212	25.597	16.019	0.00	0.00	C
ATOM	2387	CD2	LEU	151	31.332	24.191	15.977	0.00	0.00	C
ATOM	2388	H	LEU	151	31.208	25.593	19.379	0.00	0.00	H
ATOM	2389	HA	LEU	151	33.347	26.051	17.478	0.00	0.00	H
ATOM	2390	HB2	LEU	151	30.797	27.446	17.094	0.00	0.00	H
ATOM	2391	HB3	LEU	151	31.908	26.752	15.911	0.00	0.00	H
ATOM	2392	HG	LEU	151	30.208	24.954	17.609	0.00	0.00	H
ATOM	2393	HD11	LEU	151	28.554	26.279	16.556	0.00	0.00	H
ATOM	2394	HD12	LEU	151	29.413	26.130	15.089	0.00	0.00	H
ATOM	2395	HD13	LEU	151	28.673	24.672	15.812	0.00	0.00	H
ATOM	2396	HD21	LEU	151	30.616	23.385	15.817	0.00	0.00	H
ATOM	2397	HD22	LEU	151	31.592	24.531	14.974	0.00	0.00	H
ATOM	2398	HD23	LEU	151	32.181	23.760	16.506	0.00	0.00	H
ATOM	2399	N	THR	152	34.071	27.990	19.209	0.00	0.00	N
ATOM	2400	CA	THR	152	34.727	29.297	19.604	0.00	0.00	C
ATOM	2401	C	THR	152	35.516	29.957	18.433	0.00	0.00	C
ATOM	2402	O	THR	152	35.527	31.180	18.227	0.00	0.00	O
ATOM	2403	CB	THR	152	35.807	29.251	20.706	0.00	0.00	C
ATOM	2404	CG2	THR	152	35.130	28.880	22.061	0.00	0.00	C
ATOM	2405	OG1	THR	152	36.782	28.333	20.419	0.00	0.00	O
ATOM	2406	H	THR	152	34.306	27.180	19.765	0.00	0.00	H
ATOM	2407	HA	THR	152	33.895	29.964	19.824	0.00	0.00	H
ATOM	2408	HB	THR	152	36.310	30.207	20.851	0.00	0.00	H
ATOM	2409	HG1	THR	152	37.241	28.114	21.234	0.00	0.00	H
ATOM	2410	HG21	THR	152	34.382	29.664	22.171	0.00	0.00	H
ATOM	2411	HG22	THR	152	34.706	27.881	21.963	0.00	0.00	H
ATOM	2412	HG23	THR	152	35.883	28.951	22.846	0.00	0.00	H
ATOM	2413	N	GLY	153	36.068	29.075	17.574	0.00	0.00	N
ATOM	2414	CA	GLY	153	36.923	29.327	16.470	0.00	0.00	C
ATOM	2415	C	GLY	153	36.258	30.071	15.280	0.00	0.00	C
ATOM	2416	O	GLY	153	36.933	30.638	14.444	0.00	0.00	O
ATOM	2417	H	GLY	153	35.940	28.107	17.834	0.00	0.00	H
ATOM	2418	HA2	GLY	153	37.864	29.726	16.848	0.00	0.00	H
ATOM	2419	HA3	GLY	153	37.196	28.366	16.033	0.00	0.00	H
ATOM	2420	N	PHE	154	34.915	30.193	15.313	0.00	0.00	N
ATOM	2421	CA	PHE	154	34.073	30.677	14.252	0.00	0.00	C
ATOM	2422	C	PHE	154	33.583	32.151	14.517	0.00	0.00	C
ATOM	2423	O	PHE	154	32.738	32.647	13.864	0.00	0.00	O
ATOM	2424	CB	PHE	154	32.915	29.657	14.071	0.00	0.00	C
ATOM	2425	CG	PHE	154	33.260	28.319	13.358	0.00	0.00	C
ATOM	2426	CD1	PHE	154	33.621	27.232	14.174	0.00	0.00	C
ATOM	2427	CD2	PHE	154	33.310	28.176	11.940	0.00	0.00	C
ATOM	2428	CE1	PHE	154	33.877	25.969	13.626	0.00	0.00	C
ATOM	2429	CE2	PHE	154	33.528	26.911	11.334	0.00	0.00	C
ATOM	2430	CZ	PHE	154	33.759	25.832	12.201	0.00	0.00	C
ATOM	2431	H	PHE	154	34.447	29.930	16.167	0.00	0.00	H
ATOM	2432	HA	PHE	154	34.636	30.528	13.331	0.00	0.00	H

ATOM	2433	HB2	PHE	154	32.450	29.513	15.046	0.00	0.00	H
ATOM	2434	HB3	PHE	154	32.098	30.080	13.484	0.00	0.00	H
ATOM	2435	HD1	PHE	154	33.657	27.551	15.206	0.00	0.00	H
ATOM	2436	HD2	PHE	154	33.141	29.051	11.331	0.00	0.00	H
ATOM	2437	HE1	PHE	154	33.907	25.078	14.235	0.00	0.00	H
ATOM	2438	HE2	PHE	154	33.290	26.808	10.286	0.00	0.00	H
ATOM	2439	HZ	PHE	154	33.877	24.903	11.663	0.00	0.00	H
ATOM	2440	N	LEU	155	34.014	32.736	15.597	0.00	0.00	N
ATOM	2441	CA	LEU	155	33.419	34.104	15.965	0.00	0.00	C
ATOM	2442	C	LEU	155	33.742	35.223	14.953	0.00	0.00	C
ATOM	2443	O	LEU	155	33.100	36.278	14.924	0.00	0.00	O
ATOM	2444	CB	LEU	155	33.796	34.442	17.400	0.00	0.00	C
ATOM	2445	CG	LEU	155	33.229	35.756	18.008	0.00	0.00	C
ATOM	2446	CD1	LEU	155	31.698	35.579	18.058	0.00	0.00	C
ATOM	2447	CD2	LEU	155	33.805	35.970	19.335	0.00	0.00	C
ATOM	2448	H	LEU	155	34.730	32.411	16.230	0.00	0.00	H
ATOM	2449	HA	LEU	155	32.330	34.045	15.935	0.00	0.00	H
ATOM	2450	HB2	LEU	155	33.401	33.616	17.991	0.00	0.00	H
ATOM	2451	HB3	LEU	155	34.859	34.445	17.641	0.00	0.00	H
ATOM	2452	HG	LEU	155	33.478	36.593	17.357	0.00	0.00	H
ATOM	2453	HD11	LEU	155	31.194	35.703	17.099	0.00	0.00	H
ATOM	2454	HD12	LEU	155	31.467	34.570	18.400	0.00	0.00	H
ATOM	2455	HD13	LEU	155	31.307	36.383	18.681	0.00	0.00	H
ATOM	2456	HD21	LEU	155	33.159	35.520	20.088	0.00	0.00	H
ATOM	2457	HD22	LEU	155	34.782	35.501	19.457	0.00	0.00	H
ATOM	2458	HD23	LEU	155	33.912	37.048	19.460	0.00	0.00	H
ATOM	2459	N	GLY	156	34.747	35.041	14.053	0.00	0.00	N
ATOM	2460	CA	GLY	156	35.096	35.928	12.887	0.00	0.00	C
ATOM	2461	C	GLY	156	34.060	35.693	11.796	0.00	0.00	C
ATOM	2462	O	GLY	156	33.736	36.616	11.081	0.00	0.00	O
ATOM	2463	H	GLY	156	35.361	34.241	14.116	0.00	0.00	H
ATOM	2464	HA2	GLY	156	35.066	36.963	13.229	0.00	0.00	H
ATOM	2465	HA3	GLY	156	36.098	35.614	12.595	0.00	0.00	H
ATOM	2466	N	GLN	157	33.670	34.455	11.660	0.00	0.00	N
ATOM	2467	CA	GLN	157	32.652	34.025	10.691	0.00	0.00	C
ATOM	2468	C	GLN	157	31.293	34.530	11.058	0.00	0.00	C
ATOM	2469	O	GLN	157	30.661	35.098	10.211	0.00	0.00	O
ATOM	2470	CB	GLN	157	32.716	32.491	10.478	0.00	0.00	C
ATOM	2471	CG	GLN	157	33.991	31.960	9.827	0.00	0.00	C
ATOM	2472	CD	GLN	157	34.286	32.727	8.568	0.00	0.00	C
ATOM	2473	NE2	GLN	157	33.774	32.435	7.404	0.00	0.00	N
ATOM	2474	OE1	GLN	157	34.946	33.722	8.561	0.00	0.00	O
ATOM	2475	H	GLN	157	34.010	33.760	12.312	0.00	0.00	H
ATOM	2476	HA	GLN	157	32.759	34.512	9.722	0.00	0.00	H
ATOM	2477	HB2	GLN	157	32.540	32.005	11.437	0.00	0.00	H
ATOM	2478	HB3	GLN	157	31.820	32.218	9.920	0.00	0.00	H
ATOM	2479	HG2	GLN	157	34.791	32.072	10.559	0.00	0.00	H
ATOM	2480	HG3	GLN	157	33.903	30.899	9.589	0.00	0.00	H
ATOM	2481	HE21	GLN	157	33.950	33.138	6.701	0.00	0.00	H
ATOM	2482	HE22	GLN	157	33.345	31.531	7.263	0.00	0.00	H
ATOM	2483	N	VAL	158	30.941	34.478	12.343	0.00	0.00	N
ATOM	2484	CA	VAL	158	29.624	35.035	12.844	0.00	0.00	C
ATOM	2485	C	VAL	158	29.672	36.516	12.617	0.00	0.00	C
ATOM	2486	O	VAL	158	28.719	37.050	12.086	0.00	0.00	O
ATOM	2487	CB	VAL	158	29.440	34.731	14.339	0.00	0.00	C
ATOM	2488	CG1	VAL	158	28.195	35.342	14.994	0.00	0.00	C
ATOM	2489	CG2	VAL	158	29.432	33.236	14.550	0.00	0.00	C
ATOM	2490	H	VAL	158	31.539	34.030	13.023	0.00	0.00	H
ATOM	2491	HA	VAL	158	28.781	34.007	12.302	0.00	0.00	H
ATOM	2492	HB	VAL	158	30.300	35.043	14.931	0.00	0.00	H
ATOM	2493	HG11	VAL	158	27.269	35.071	14.488	0.00	0.00	H
ATOM	2494	HG12	VAL	158	28.187	35.088	16.053	0.00	0.00	H
ATOM	2495	HG13	VAL	158	28.292	36.426	15.036	0.00	0.00	H
ATOM	2496	HG21	VAL	158	30.443	32.833	14.598	0.00	0.00	H
ATOM	2497	HG22	VAL	158	28.943	33.074	15.511	0.00	0.00	H
ATOM	2498	HG23	VAL	158	28.939	32.633	13.788	0.00	0.00	H
ATOM	2499	N	THR	159	30.725	37.231	12.944	0.00	0.00	N
ATOM	2500	CA	THR	159	30.992	38.625	12.657	0.00	0.00	C
ATOM	2501	C	THR	159	30.652	38.967	11.191	0.00	0.00	C
ATOM	2502	O	THR	159	29.874	39.852	10.902	0.00	0.00	O
ATOM	2503	CB	THR	159	32.458	38.933	13.015	0.00	0.00	C
ATOM	2504	CG2	THR	159	32.779	40.339	12.585	0.00	0.00	C
ATOM	2505	OG1	THR	159	32.498	38.849	14.397	0.00	0.00	O
ATOM	2506	H	THR	159	31.460	36.767	13.458	0.00	0.00	H
ATOM	2507	HA	THR	159	30.330	39.191	13.313	0.00	0.00	H
ATOM	2508	HB	THR	159	33.114	38.180	12.578	0.00	0.00	H
ATOM	2509	HG1	THR	159	32.958	38.038	14.625	0.00	0.00	H
ATOM	2510	HG21	THR	159	32.645	40.488	11.515	0.00	0.00	H
ATOM	2511	HG22	THR	159	32.124	41.080	13.045	0.00	0.00	H
ATOM	2512	HG23	THR	159	33.809	40.552	12.873	0.00	0.00	H
ATOM	2513	N	ARG	160	31.227	38.207	10.241	0.00	0.00	N
ATOM	2514	CA	ARG	160	30.972	38.405	8.822	0.00	0.00	C
ATOM	2515	C	ARG	160	29.545	38.315	8.426	0.00	0.00	C
ATOM	2516	O	ARG	160	29.144	39.260	7.806	0.00	0.00	O
ATOM	2517	CB	ARG	160	31.901	37.464	8.033	0.00	0.00	C
ATOM	2518	CG	ARG	160	31.730	37.795	6.504	0.00	0.00	C
ATOM	2519	CD	ARG	160	31.850	39.252	6.037	0.00	0.00	C
ATOM	2520	NE	ARG	160	33.250	39.698	5.950	0.00	0.00	N
ATOM	2521	CZ	ARG	160	33.778	40.634	6.737	0.00	0.00	C
ATOM	2522	NH1	ARG	160	35.015	40.718	6.998	0.00	0.00	N1+
ATOM	2523	NH2	ARG	160	33.110	41.635	7.118	0.00	0.00	N
ATOM	2524	H	ARG	160	31.908	37.506	10.501	0.00	0.00	H
ATOM	2525	HA	ARG	160	31.296	39.425	8.619	0.00	0.00	H
ATOM	2526	HB2	ARG	160	32.952	37.552	8.305	0.00	0.00	H
ATOM	2527	HB3	ARG	160	31.540	36.450	8.209	0.00	0.00	H
ATOM	2528	HG2	ARG	160	32.547	37.242	6.041	0.00	0.00	H
ATOM	2529	HG3	ARG	160	30.806	37.296	6.213	0.00	0.00	H
ATOM	2530	HD2	ARG	160	31.409	39.275	5.040	0.00	0.00	H
ATOM	2531	HD3	ARG	160	31.263	39.890	6.698	0.00	0.00	H
ATOM	2532	HE	ARG	160	33.922	39.071	5.529	0.00	0.00	H
ATOM	2533	HH11	ARG	160	35.646	40.028	6.616	0.00	0.00	H
ATOM	2534	HH12	ARG	160	35.326	41.504	7.551	0.00	0.00	H
ATOM	2535	HH21	ARG	160	32.218	41.855	6.699	0.00	0.00	H
ATOM	2536	HH22	ARG	160	33.686	42.389	7.464	0.00	0.00	H
ATOM	2537	N	PHE	161	28.795	37.300	8.851	0.00	0.00	N

ATOM	2538	CA	PHE	161	27.364	37.217	8.721	0.00	0.00	C
ATOM	2539	C	PHE	161	26.671	38.506	9.190	0.00	0.00	C
ATOM	2540	O	PHE	161	25.902	39.067	8.409	0.00	0.00	O
ATOM	2541	CB	PHE	161	26.709	36.005	9.451	0.00	0.00	C
ATOM	2542	CG	PHE	161	25.249	35.804	9.045	0.00	0.00	C
ATOM	2543	CD1	PHE	161	24.158	36.457	9.708	0.00	0.00	C
ATOM	2544	CD2	PHE	161	25.013	34.968	7.930	0.00	0.00	C
ATOM	2545	CE1	PHE	161	22.874	36.453	9.078	0.00	0.00	C
ATOM	2546	CE2	PHE	161	23.756	34.738	7.447	0.00	0.00	C
ATOM	2547	CZ	PHE	161	22.703	35.521	7.967	0.00	0.00	C
ATOM	2548	H	PHE	161	29.250	36.670	9.496	0.00	0.00	H
ATOM	2549	HA	PHE	161	27.042	37.177	7.680	0.00	0.00	H
ATOM	2550	HB2	PHE	161	27.267	35.079	9.323	0.00	0.00	H
ATOM	2551	HB3	PHE	161	26.755	36.272	10.507	0.00	0.00	H
ATOM	2552	HD1	PHE	161	24.349	37.002	10.622	0.00	0.00	H
ATOM	2553	HD2	PHE	161	25.837	34.414	7.504	0.00	0.00	H
ATOM	2554	HE1	PHE	161	22.045	37.060	9.409	0.00	0.00	H
ATOM	2555	HE2	PHE	161	23.511	34.087	6.621	0.00	0.00	H
ATOM	2556	HZ	PHE	161	21.696	35.416	7.591	0.00	0.00	H
ATOM	2557	N	VAL	162	26.954	39.032	10.390	0.00	0.00	N
ATOM	2558	CA	VAL	162	26.353	40.218	10.970	0.00	0.00	C
ATOM	2559	C	VAL	162	26.665	41.520	10.223	0.00	0.00	C
ATOM	2560	O	VAL	162	25.795	42.353	10.030	0.00	0.00	O
ATOM	2561	CB	VAL	162	26.726	40.335	12.449	0.00	0.00	C
ATOM	2562	CG1	VAL	162	26.369	41.678	13.126	0.00	0.00	C
ATOM	2563	CG2	VAL	162	26.038	39.294	13.281	0.00	0.00	C
ATOM	2564	H	VAL	162	27.661	38.522	10.902	0.00	0.00	H
ATOM	2565	HA	VAL	162	25.285	40.004	11.014	0.00	0.00	H
ATOM	2566	HB	VAL	162	27.805	40.199	12.516	0.00	0.00	H
ATOM	2567	HG11	VAL	162	25.291	41.830	13.179	0.00	0.00	H
ATOM	2568	HG12	VAL	162	26.844	41.745	14.106	0.00	0.00	H
ATOM	2569	HG13	VAL	162	26.757	42.501	12.526	0.00	0.00	H
ATOM	2570	HG21	VAL	162	24.957	39.425	13.339	0.00	0.00	H
ATOM	2571	HG22	VAL	162	26.318	38.345	12.825	0.00	0.00	H
ATOM	2572	HG23	VAL	162	26.395	39.220	14.308	0.00	0.00	H
ATOM	2573	N	VAL	163	27.877	41.672	9.776	0.00	0.00	N
ATOM	2574	CA	VAL	163	28.352	42.824	8.942	0.00	0.00	C
ATOM	2575	C	VAL	163	27.849	42.808	7.502	0.00	0.00	C
ATOM	2576	O	VAL	163	27.280	43.786	7.026	0.00	0.00	O
ATOM	2577	CB	VAL	163	29.921	43.010	9.113	0.00	0.00	C
ATOM	2578	CG1	VAL	163	30.365	44.224	8.281	0.00	0.00	C
ATOM	2579	CG2	VAL	163	30.321	43.129	10.588	0.00	0.00	C
ATOM	2580	H	VAL	163	28.507	40.944	10.082	0.00	0.00	H
ATOM	2581	HA	VAL	163	27.967	43.717	9.435	0.00	0.00	H
ATOM	2582	HB	VAL	163	30.367	42.080	8.758	0.00	0.00	H
ATOM	2583	HG11	VAL	163	29.924	45.189	8.529	0.00	0.00	H
ATOM	2584	HG12	VAL	163	31.399	44.348	8.601	0.00	0.00	H
ATOM	2585	HG13	VAL	163	30.303	44.133	7.196	0.00	0.00	H
ATOM	2586	HG21	VAL	163	29.967	42.286	11.181	0.00	0.00	H
ATOM	2587	HG22	VAL	163	31.400	43.274	10.546	0.00	0.00	H
ATOM	2588	HG23	VAL	163	29.814	44.028	10.941	0.00	0.00	H
ATOM	2589	N	ASP	164	27.863	41.635	6.853	0.00	0.00	N
ATOM	2590	CA	ASP	164	27.099	41.366	5.672	0.00	0.00	C
ATOM	2591	C	ASP	164	25.642	41.652	5.814	0.00	0.00	C
ATOM	2592	O	ASP	164	25.035	42.209	4.910	0.00	0.00	O
ATOM	2593	CB	ASP	164	27.310	39.860	5.339	0.00	0.00	C
ATOM	2594	CG	ASP	164	26.830	39.591	3.921	0.00	0.00	C
ATOM	2595	OD1	ASP	164	25.607	39.514	3.688	0.00	0.00	O
ATOM	2596	OD2	ASP	164	27.620	39.786	2.967	0.00	0.00	O1-
ATOM	2597	H	ASP	164	28.248	40.853	7.362	0.00	0.00	H
ATOM	2598	HA	ASP	164	27.535	42.026	4.923	0.00	0.00	H
ATOM	2599	HB2	ASP	164	28.361	39.573	5.375	0.00	0.00	H
ATOM	2600	HB3	ASP	164	26.706	39.266	6.027	0.00	0.00	H
ATOM	2601	N	PHE	165	25.039	41.387	7.017	0.00	0.00	N
ATOM	2602	CA	PHE	165	23.550	41.522	7.175	0.00	0.00	C
ATOM	2603	C	PHE	165	23.197	43.013	7.239	0.00	0.00	C
ATOM	2604	O	PHE	165	22.446	43.505	6.400	0.00	0.00	O
ATOM	2605	CB	PHE	165	22.954	40.684	8.377	0.00	0.00	C
ATOM	2606	CG	PHE	165	21.422	40.769	8.439	0.00	0.00	C
ATOM	2607	CD1	PHE	165	20.679	39.795	7.845	0.00	0.00	C
ATOM	2608	CD2	PHE	165	20.772	41.875	9.029	0.00	0.00	C
ATOM	2609	CE1	PHE	165	19.281	40.006	7.663	0.00	0.00	C
ATOM	2610	CE2	PHE	165	19.381	42.039	9.018	0.00	0.00	C
ATOM	2611	CZ	PHE	165	18.647	41.084	8.284	0.00	0.00	C
ATOM	2612	H	PHE	165	25.618	40.907	7.691	0.00	0.00	H
ATOM	2613	HA	PHE	165	23.036	41.149	6.290	0.00	0.00	H
ATOM	2614	HB2	PHE	165	23.271	39.642	8.417	0.00	0.00	H
ATOM	2615	HB3	PHE	165	23.377	41.201	9.240	0.00	0.00	H
ATOM	2616	HD1	PHE	165	21.160	38.995	7.301	0.00	0.00	H
ATOM	2617	HD2	PHE	165	21.343	42.642	9.532	0.00	0.00	H
ATOM	2618	HE1	PHE	165	18.675	39.186	7.306	0.00	0.00	H
ATOM	2619	HE2	PHE	165	18.962	42.919	9.481	0.00	0.00	H
ATOM	2620	HZ	PHE	165	17.573	41.088	8.395	0.00	0.00	H
ATOM	2621	N	MET	166	23.869	43.749	8.173	0.00	0.00	N
ATOM	2622	CA	MET	166	23.729	45.193	8.345	0.00	0.00	C
ATOM	2623	C	MET	166	24.074	46.016	7.097	0.00	0.00	C
ATOM	2624	O	MET	166	23.320	46.972	6.870	0.00	0.00	O
ATOM	2625	CB	MET	166	24.679	45.602	9.503	0.00	0.00	C
ATOM	2626	CG	MET	166	24.222	45.175	10.978	0.00	0.00	C
ATOM	2627	SD	MET	166	25.052	45.957	12.304	0.00	0.00	S
ATOM	2628	CE	MET	166	23.765	46.308	13.469	0.00	0.00	C
ATOM	2629	H	MET	166	24.434	43.212	8.816	0.00	0.00	H
ATOM	2630	HA	MET	166	22.723	45.407	8.706	0.00	0.00	H
ATOM	2631	HB2	MET	166	25.703	45.241	9.410	0.00	0.00	H
ATOM	2632	HB3	MET	166	24.532	46.683	9.491	0.00	0.00	H
ATOM	2633	HG2	MET	166	23.243	45.644	11.072	0.00	0.00	H
ATOM	2634	HG3	MET	166	24.223	44.096	11.132	0.00	0.00	H
ATOM	2635	HE1	MET	166	22.857	46.709	13.020	0.00	0.00	H
ATOM	2636	HE2	MET	166	23.560	45.463	14.128	0.00	0.00	H
ATOM	2637	HE3	MET	166	24.165	47.064	14.144	0.00	0.00	H
ATOM	2638	N	LEU	167	25.059	45.617	6.250	0.00	0.00	N
ATOM	2639	CA	LEU	167	25.287	46.198	4.919	0.00	0.00	C
ATOM	2640	C	LEU	167	24.030	45.900	4.041	0.00	0.00	C
ATOM	2641	O	LEU	167	23.392	46.860	3.452	0.00	0.00	O
ATOM	2642	CB	LEU	167	26.689	45.652	4.352	0.00	0.00	C

ATOM	2643	CG	LEU	167	27.017	46.249	2.950	0.00	0.00	C
ATOM	2644	CD1	LEU	167	27.318	47.714	3.045	0.00	0.00	C
ATOM	2645	CD2	LEU	167	28.251	45.559	2.275	0.00	0.00	C
ATOM	2646	H	LEU	167	25.611	44.792	6.431	0.00	0.00	H
ATOM	2647	HA	LEU	167	25.382	47.280	5.015	0.00	0.00	H
ATOM	2648	HB2	LEU	167	27.537	45.765	5.027	0.00	0.00	H
ATOM	2649	HB3	LEU	167	26.619	44.581	4.161	0.00	0.00	H
ATOM	2650	HG	LEU	167	26.132	46.169	2.318	0.00	0.00	H
ATOM	2651	HD11	LEU	167	26.438	48.123	3.542	0.00	0.00	H
ATOM	2652	HD12	LEU	167	28.182	47.917	3.676	0.00	0.00	H
ATOM	2653	HD13	LEU	167	27.420	48.151	2.052	0.00	0.00	H
ATOM	2654	HD21	LEU	167	29.162	45.613	2.872	0.00	0.00	H
ATOM	2655	HD22	LEU	167	28.020	44.507	2.110	0.00	0.00	H
ATOM	2656	HD23	LEU	167	28.522	45.887	1.272	0.00	0.00	H
ATOM	2657	N	HIP	168	23.637	44.654	3.841	0.00	0.00	N
ATOM	2658	CA	HIP	168	22.651	44.213	2.810	0.00	0.00	C
ATOM	2659	C	HIP	168	21.188	44.275	3.225	0.00	0.00	C
ATOM	2660	O	HIP	168	20.376	43.937	2.408	0.00	0.00	O
ATOM	2661	CB	HIP	168	23.141	42.788	2.309	0.00	0.00	C
ATOM	2662	CG	HIP	168	24.502	42.692	1.709	0.00	0.00	C
ATOM	2663	CD2	HIP	168	24.962	43.287	0.515	0.00	0.00	C
ATOM	2664	ND1	HIP	168	25.501	41.760	2.070	0.00	0.00	N1+
ATOM	2665	CE1	HIP	168	26.493	41.896	1.217	0.00	0.00	C
ATOM	2666	NE2	HIP	168	26.169	42.785	0.211	0.00	0.00	N
ATOM	2667	H	HIP	168	23.996	43.988	4.510	0.00	0.00	H
ATOM	2668	HA	HIP	168	22.681	44.812	1.901	0.00	0.00	H
ATOM	2669	HB2	HIP	168	23.192	42.127	3.175	0.00	0.00	H
ATOM	2670	HB3	HIP	168	22.422	42.459	1.558	0.00	0.00	H
ATOM	2671	HD1	HIP	168	25.509	41.090	2.825	0.00	0.00	H
ATOM	2672	HD2	HIP	168	24.419	43.965	-0.127	0.00	0.00	H
ATOM	2673	HE1	HIP	168	27.389	41.305	1.092	0.00	0.00	H
ATOM	2674	HE2	HIP	168	26.709	42.850	-0.639	0.00	0.00	H
ATOM	2675	N	HIP	169	20.933	44.918	4.397	0.00	0.00	N
ATOM	2676	CA	HIP	169	19.643	45.489	4.735	0.00	0.00	C
ATOM	2677	C	HIP	169	19.683	46.917	5.201	0.00	0.00	C
ATOM	2678	O	HIP	169	19.171	47.177	6.250	0.00	0.00	O
ATOM	2679	CB	HIP	169	18.958	44.582	5.817	0.00	0.00	C
ATOM	2680	CG	HIP	169	18.639	43.123	5.383	0.00	0.00	C
ATOM	2681	CD2	HIP	169	19.537	42.144	5.267	0.00	0.00	C
ATOM	2682	ND1	HIP	169	17.555	42.708	4.557	0.00	0.00	N1+
ATOM	2683	CE1	HIP	169	17.810	41.499	4.025	0.00	0.00	C
ATOM	2684	NE2	HIP	169	19.023	41.123	4.469	0.00	0.00	N
ATOM	2685	H	HIP	169	21.719	44.990	5.028	0.00	0.00	H
ATOM	2686	HA	HIP	169	18.968	45.505	3.880	0.00	0.00	H
ATOM	2687	HB2	HIP	169	19.472	44.572	6.779	0.00	0.00	H
ATOM	2688	HB3	HIP	169	17.943	44.944	5.980	0.00	0.00	H
ATOM	2689	HD1	HIP	169	16.712	43.233	4.373	0.00	0.00	H
ATOM	2690	HD2	HIP	169	20.478	42.249	5.788	0.00	0.00	H
ATOM	2691	HE1	HIP	169	17.151	40.923	3.392	0.00	0.00	H
ATOM	2692	HE2	HIP	169	19.595	40.364	4.128	0.00	0.00	H
ATOM	2693	N	CYS	170	20.288	47.792	4.397	0.00	0.00	N
ATOM	2694	CA	CYS	170	20.383	49.284	4.614	0.00	0.00	C
ATOM	2695	C	CYS	170	21.093	49.768	5.894	0.00	0.00	C
ATOM	2696	O	CYS	170	21.378	50.916	5.999	0.00	0.00	O
ATOM	2697	CB	CYS	170	19.039	49.932	4.416	0.00	0.00	C
ATOM	2698	SG	CYS	170	18.562	49.781	2.630	0.00	0.00	S
ATOM	2699	H	CYS	170	20.684	47.407	3.551	0.00	0.00	H
ATOM	2700	HA	CYS	170	21.040	49.664	3.832	0.00	0.00	H
ATOM	2701	HB2	CYS	170	18.218	49.608	5.055	0.00	0.00	H
ATOM	2702	HB3	CYS	170	19.254	50.988	4.578	0.00	0.00	H
ATOM	2703	HG	CYS	170	17.913	50.942	2.759	0.00	0.00	H
ATOM	2704	N	ILE	171	21.334	49.016	6.975	0.00	0.00	N
ATOM	2705	CA	ILE	171	21.700	49.506	8.378	0.00	0.00	C
ATOM	2706	C	ILE	171	23.068	50.267	8.319	0.00	0.00	C
ATOM	2707	O	ILE	171	23.151	51.293	9.040	0.00	0.00	O
ATOM	2708	CB	ILE	171	21.776	48.304	9.406	0.00	0.00	C
ATOM	2709	CG1	ILE	171	20.507	47.443	9.334	0.00	0.00	C
ATOM	2710	CG2	ILE	171	22.007	48.867	10.862	0.00	0.00	C
ATOM	2711	CD1	ILE	171	20.393	46.322	10.345	0.00	0.00	C
ATOM	2712	H	ILE	171	21.131	48.037	6.835	0.00	0.00	H
ATOM	2713	HA	ILE	171	20.985	50.235	8.759	0.00	0.00	H
ATOM	2714	HB	ILE	171	22.584	47.644	9.087	0.00	0.00	H
ATOM	2715	HG12	ILE	171	19.644	48.082	9.524	0.00	0.00	H
ATOM	2716	HG13	ILE	171	20.449	46.967	8.355	0.00	0.00	H
ATOM	2717	HG21	ILE	171	21.118	49.372	11.241	0.00	0.00	H
ATOM	2718	HG22	ILE	171	22.121	47.965	11.464	0.00	0.00	H
ATOM	2719	HG23	ILE	171	22.934	49.436	10.811	0.00	0.00	H
ATOM	2720	HD11	ILE	171	19.543	45.713	10.036	0.00	0.00	H
ATOM	2721	HD12	ILE	171	21.267	45.672	10.351	0.00	0.00	H
ATOM	2722	HD13	ILE	171	20.277	46.661	11.374	0.00	0.00	H
ATOM	2723	N	ALA	172	23.980	49.830	7.476	0.00	0.00	N
ATOM	2724	CA	ALA	172	25.270	50.491	7.363	0.00	0.00	C
ATOM	2725	C	ALA	172	25.129	51.921	6.790	0.00	0.00	C
ATOM	2726	O	ALA	172	25.920	52.839	7.140	0.00	0.00	O
ATOM	2727	CB	ALA	172	26.231	49.589	6.601	0.00	0.00	C
ATOM	2728	H	ALA	172	23.828	49.021	6.890	0.00	0.00	H
ATOM	2729	HA	ALA	172	25.617	50.549	8.394	0.00	0.00	H
ATOM	2730	HB1	ALA	172	25.919	49.378	5.577	0.00	0.00	H
ATOM	2731	HB2	ALA	172	27.189	50.104	6.525	0.00	0.00	H
ATOM	2732	HB3	ALA	172	26.376	48.674	7.173	0.00	0.00	H
ATOM	2733	N	ARG	173	24.112	52.153	5.823	0.00	0.00	N
ATOM	2734	CA	ARG	173	23.838	53.487	5.218	0.00	0.00	C
ATOM	2735	C	ARG	173	23.198	54.422	6.210	0.00	0.00	C
ATOM	2736	O	ARG	173	23.427	55.631	6.107	0.00	0.00	O
ATOM	2737	CB	ARG	173	22.979	53.351	3.932	0.00	0.00	C
ATOM	2738	CG	ARG	173	22.682	54.637	3.189	0.00	0.00	C
ATOM	2739	CD	ARG	173	21.632	54.286	2.142	0.00	0.00	C
ATOM	2740	NE	ARG	173	22.127	53.233	1.194	0.00	0.00	N
ATOM	2741	CZ	ARG	173	21.360	52.350	0.556	0.00	0.00	C
ATOM	2742	NH1	ARG	173	20.056	52.599	0.521	0.00	0.00	N1+
ATOM	2743	NH2	ARG	173	21.782	51.269	0.084	0.00	0.00	N
ATOM	2744	H	ARG	173	23.653	51.310	5.508	0.00	0.00	H
ATOM	2745	HA	ARG	173	24.818	53.894	4.973	0.00	0.00	H
ATOM	2746	HB2	ARG	173	23.429	52.596	3.287	0.00	0.00	H
ATOM	2747	HB3	ARG	173	22.095	52.754	4.155	0.00	0.00	H

ATOM	2748	HG2	ARG	173	22.268	55.311	3.940	0.00	0.00	H
ATOM	2749	HG3	ARG	173	23.637	55.020	2.830	0.00	0.00	H
ATOM	2750	HD2	ARG	173	20.846	53.847	2.757	0.00	0.00	H
ATOM	2751	HD3	ARG	173	21.380	55.127	1.496	0.00	0.00	H
ATOM	2752	HE	ARG	173	23.109	53.095	1.003	0.00	0.00	H
ATOM	2753	HH11	ARG	173	19.820	53.569	0.677	0.00	0.00	H
ATOM	2754	HH12	ARG	173	19.440	52.086	-0.092	0.00	0.00	H
ATOM	2755	HH21	ARG	173	22.713	50.994	0.360	0.00	0.00	H
ATOM	2756	HH22	ARG	173	21.110	50.529	-0.061	0.00	0.00	H
ATOM	2757	N	TRP	174	22.309	53.918	7.088	0.00	0.00	N
ATOM	2758	CA	TRP	174	21.692	54.843	8.120	0.00	0.00	C
ATOM	2759	C	TRP	174	22.736	55.317	9.046	0.00	0.00	C
ATOM	2760	O	TRP	174	22.763	56.490	9.515	0.00	0.00	O
ATOM	2761	CB	TRP	174	20.460	54.145	8.748	0.00	0.00	C
ATOM	2762	CG	TRP	174	19.697	54.934	9.753	0.00	0.00	C
ATOM	2763	CD1	TRP	174	18.825	55.972	9.532	0.00	0.00	C
ATOM	2764	CD2	TRP	174	19.782	54.777	11.177	0.00	0.00	C
ATOM	2765	CE2	TRP	174	18.862	55.668	11.791	0.00	0.00	C
ATOM	2766	CE3	TRP	174	20.572	54.021	12.166	0.00	0.00	C
ATOM	2767	NE1	TRP	174	18.374	56.430	10.728	0.00	0.00	N
ATOM	2768	CZ2	TRP	174	18.695	55.828	13.202	0.00	0.00	C
ATOM	2769	CZ3	TRP	174	20.416	54.236	13.525	0.00	0.00	C
ATOM	2770	CH2	TRP	174	19.536	55.131	14.038	0.00	0.00	C
ATOM	2771	H	TRP	174	22.025	52.959	6.948	0.00	0.00	H
ATOM	2772	HA	TRP	174	21.327	55.770	7.677	0.00	0.00	H
ATOM	2773	HB2	TRP	174	19.731	53.777	8.026	0.00	0.00	H
ATOM	2774	HB3	TRP	174	20.855	53.262	9.250	0.00	0.00	H
ATOM	2775	HD1	TRP	174	18.632	56.335	8.533	0.00	0.00	H
ATOM	2776	HE1	TRP	174	17.719	57.171	10.935	0.00	0.00	H
ATOM	2777	HE3	TRP	174	21.264	53.302	11.754	0.00	0.00	H
ATOM	2778	HZ2	TRP	174	18.025	56.594	13.564	0.00	0.00	H
ATOM	2779	HZ3	TRP	174	21.086	53.712	14.191	0.00	0.00	H
ATOM	2780	HH2	TRP	174	19.708	55.386	15.073	0.00	0.00	H
ATOM	2781	N	ILE	175	23.698	54.453	9.383	0.00	0.00	N
ATOM	2782	CA	ILE	175	24.825	54.785	10.223	0.00	0.00	C
ATOM	2783	C	ILE	175	25.787	55.687	9.397	0.00	0.00	C
ATOM	2784	O	ILE	175	26.313	56.594	9.971	0.00	0.00	O
ATOM	2785	CB	ILE	175	25.407	53.494	10.711	0.00	0.00	C
ATOM	2786	CG1	ILE	175	24.542	52.812	11.843	0.00	0.00	C
ATOM	2787	CG2	ILE	175	26.786	53.805	11.347	0.00	0.00	C
ATOM	2788	CD1	ILE	175	24.746	51.284	12.120	0.00	0.00	C
ATOM	2789	H	ILE	175	23.628	53.559	8.919	0.00	0.00	H
ATOM	2790	HA	ILE	175	24.375	55.261	11.095	0.00	0.00	H
ATOM	2791	HB	ILE	175	25.476	52.808	9.868	0.00	0.00	H
ATOM	2792	HG12	ILE	175	24.636	53.453	12.720	0.00	0.00	H
ATOM	2793	HG13	ILE	175	23.510	52.863	11.495	0.00	0.00	H
ATOM	2794	HG21	ILE	175	26.792	54.713	11.950	0.00	0.00	H
ATOM	2795	HG22	ILE	175	27.031	53.011	12.051	0.00	0.00	H
ATOM	2796	HG23	ILE	175	27.612	53.877	10.641	0.00	0.00	H
ATOM	2797	HD11	ILE	175	23.905	51.002	12.753	0.00	0.00	H
ATOM	2798	HD12	ILE	175	24.629	50.758	11.173	0.00	0.00	H
ATOM	2799	HD13	ILE	175	25.720	51.139	12.587	0.00	0.00	H
ATOM	2800	N	ALA	176	26.014	55.400	8.154	0.00	0.00	N
ATOM	2801	CA	ALA	176	26.929	56.215	7.266	0.00	0.00	C
ATOM	2802	C	ALA	176	26.480	57.580	7.069	0.00	0.00	C
ATOM	2803	O	ALA	176	27.172	58.492	7.351	0.00	0.00	O
ATOM	2804	CB	ALA	176	27.040	55.542	5.912	0.00	0.00	C
ATOM	2805	H	ALA	176	25.673	54.514	7.810	0.00	0.00	H
ATOM	2806	HA	ALA	176	27.951	56.160	7.642	0.00	0.00	H
ATOM	2807	HB1	ALA	176	27.796	56.089	5.349	0.00	0.00	H
ATOM	2808	HB2	ALA	176	27.310	54.488	5.985	0.00	0.00	H
ATOM	2809	HB3	ALA	176	26.045	55.521	5.470	0.00	0.00	H
ATOM	2810	N	GLN	177	25.187	57.814	6.815	0.00	0.00	N
ATOM	2811	CA	GLN	177	24.492	59.158	6.857	0.00	0.00	C
ATOM	2812	C	GLN	177	24.357	59.801	8.222	0.00	0.00	C
ATOM	2813	O	GLN	177	23.785	60.886	8.339	0.00	0.00	O
ATOM	2814	CB	GLN	177	23.216	59.010	6.056	0.00	0.00	C
ATOM	2815	CG	GLN	177	23.327	58.801	4.527	0.00	0.00	C
ATOM	2816	CD	GLN	177	22.008	58.831	3.728	0.00	0.00	C
ATOM	2817	NE2	GLN	177	22.079	58.594	2.446	0.00	0.00	N
ATOM	2818	OE1	GLN	177	20.935	59.192	4.166	0.00	0.00	O
ATOM	2819	H	GLN	177	24.552	57.059	6.603	0.00	0.00	H
ATOM	2820	HA	GLN	177	25.109	59.865	6.301	0.00	0.00	H
ATOM	2821	HB2	GLN	177	22.841	58.131	6.582	0.00	0.00	H
ATOM	2822	HB3	GLN	177	22.547	59.848	6.246	0.00	0.00	H
ATOM	2823	HG2	GLN	177	23.928	59.649	4.199	0.00	0.00	H
ATOM	2824	HG3	GLN	177	23.831	57.878	4.236	0.00	0.00	H
ATOM	2825	HE21	GLN	177	21.227	58.566	1.904	0.00	0.00	H
ATOM	2826	HE22	GLN	177	22.993	58.577	2.017	0.00	0.00	H
ATOM	2827	N	ARG	178	24.917	59.192	9.268	0.00	0.00	N
ATOM	2828	CA	ARG	178	25.164	59.667	10.608	0.00	0.00	C
ATOM	2829	C	ARG	178	26.701	59.809	10.938	0.00	0.00	C
ATOM	2830	O	ARG	178	27.124	59.880	12.098	0.00	0.00	O
ATOM	2831	CB	ARG	178	24.347	58.900	11.591	0.00	0.00	C
ATOM	2832	CG	ARG	178	22.827	59.059	11.528	0.00	0.00	C
ATOM	2833	CD	ARG	178	21.931	58.026	12.264	0.00	0.00	C
ATOM	2834	NE	ARG	178	20.599	58.537	12.529	0.00	0.00	N
ATOM	2835	CZ	ARG	178	20.269	58.899	13.786	0.00	0.00	C
ATOM	2836	NH1	ARG	178	19.087	59.359	13.990	0.00	0.00	N1+
ATOM	2837	NH2	ARG	178	20.988	59.011	14.837	0.00	0.00	N
ATOM	2838	H	ARG	178	25.414	58.324	9.124	0.00	0.00	H
ATOM	2839	HA	ARG	178	24.745	60.674	10.607	0.00	0.00	H
ATOM	2840	HB2	ARG	178	24.499	57.840	11.393	0.00	0.00	H
ATOM	2841	HB3	ARG	178	24.677	59.142	12.601	0.00	0.00	H
ATOM	2842	HG2	ARG	178	22.591	60.084	11.812	0.00	0.00	H
ATOM	2843	HG3	ARG	178	22.489	59.085	10.491	0.00	0.00	H
ATOM	2844	HD2	ARG	178	21.682	57.175	11.630	0.00	0.00	H
ATOM	2845	HD3	ARG	178	22.330	57.620	13.194	0.00	0.00	H
ATOM	2846	HE	ARG	178	19.991	58.704	11.740	0.00	0.00	H
ATOM	2847	HH11	ARG	178	18.431	59.195	13.241	0.00	0.00	H
ATOM	2848	HH12	ARG	178	18.764	59.915	14.769	0.00	0.00	H
ATOM	2849	HH21	ARG	178	21.985	58.933	14.702	0.00	0.00	H
ATOM	2850	HH22	ARG	178	20.486	59.380	15.632	0.00	0.00	H
ATOM	2851	N	GLY	179	27.545	59.713	9.910	0.00	0.00	N
ATOM	2852	CA	GLY	179	29.018	59.813	9.984	0.00	0.00	C

ATOM	2853	C	GLY	179	29.720	58.487	10.333	0.00	0.00	C
ATOM	2854	O	GLY	179	30.830	58.556	10.923	0.00	0.00	O
ATOM	2855	H	GLY	179	27.078	59.563	9.027	0.00	0.00	H
ATOM	2856	HA2	GLY	179	29.452	60.132	9.036	0.00	0.00	H
ATOM	2857	HA3	GLY	179	29.326	60.619	10.650	0.00	0.00	H
ATOM	2858	N	GLY	180	28.998	57.348	10.164	0.00	0.00	N
ATOM	2859	CA	GLY	180	29.575	56.096	10.546	0.00	0.00	C
ATOM	2860	C	GLY	180	30.140	55.961	11.934	0.00	0.00	C
ATOM	2861	O	GLY	180	29.908	56.846	12.757	0.00	0.00	O
ATOM	2862	H	GLY	180	28.059	57.387	9.793	0.00	0.00	H
ATOM	2863	HA2	GLY	180	28.862	55.286	10.400	0.00	0.00	H
ATOM	2864	HA3	GLY	180	30.437	55.941	9.896	0.00	0.00	H
ATOM	2865	N	TRP	181	30.717	54.784	12.263	0.00	0.00	N
ATOM	2866	CA	TRP	181	30.934	54.426	13.697	0.00	0.00	C
ATOM	2867	C	TRP	181	31.818	55.434	14.474	0.00	0.00	C
ATOM	2868	O	TRP	181	31.828	55.480	15.665	0.00	0.00	O
ATOM	2869	CB	TRP	181	31.490	53.044	13.738	0.00	0.00	C
ATOM	2870	CG	TRP	181	30.480	51.930	13.432	0.00	0.00	C
ATOM	2871	CD1	TRP	181	30.539	51.008	12.404	0.00	0.00	C
ATOM	2872	CD2	TRP	181	29.253	51.662	14.185	0.00	0.00	C
ATOM	2873	CE2	TRP	181	28.729	50.458	13.537	0.00	0.00	C
ATOM	2874	CE3	TRP	181	28.617	52.139	15.319	0.00	0.00	C
ATOM	2875	NE1	TRP	181	29.494	50.147	12.424	0.00	0.00	N
ATOM	2876	CZ2	TRP	181	27.623	49.789	14.146	0.00	0.00	C
ATOM	2877	CZ3	TRP	181	27.471	51.460	15.830	0.00	0.00	C
ATOM	2878	CH2	TRP	181	26.939	50.286	15.278	0.00	0.00	C
ATOM	2879	H	TRP	181	31.038	54.176	11.523	0.00	0.00	H
ATOM	2880	HA	TRP	181	29.998	54.326	14.246	0.00	0.00	H
ATOM	2881	HB2	TRP	181	32.182	52.963	12.900	0.00	0.00	H
ATOM	2882	HB3	TRP	181	31.901	52.818	14.723	0.00	0.00	H
ATOM	2883	HD1	TRP	181	31.350	50.964	11.690	0.00	0.00	H
ATOM	2884	HE1	TRP	181	29.255	49.463	11.721	0.00	0.00	H
ATOM	2885	HE3	TRP	181	29.069	52.913	15.922	0.00	0.00	H
ATOM	2886	HZ2	TRP	181	27.212	48.879	13.736	0.00	0.00	H
ATOM	2887	HZ3	TRP	181	27.114	51.812	16.787	0.00	0.00	H
ATOM	2888	HH2	TRP	181	26.055	49.830	15.699	0.00	0.00	H
ATOM	2889	N	VAL	182	32.543	56.290	13.761	0.00	0.00	N
ATOM	2890	CA	VAL	182	33.487	57.318	14.307	0.00	0.00	C
ATOM	2891	C	VAL	182	32.910	58.671	14.920	0.00	0.00	C
ATOM	2892	O	VAL	182	33.614	59.537	15.399	0.00	0.00	O
ATOM	2893	CB	VAL	182	34.547	57.616	13.266	0.00	0.00	C
ATOM	2894	CG1	VAL	182	34.189	58.713	12.262	0.00	0.00	C
ATOM	2895	CG2	VAL	182	35.873	58.084	13.849	0.00	0.00	C
ATOM	2896	H	VAL	182	32.575	56.033	12.785	0.00	0.00	H
ATOM	2897	HA	VAL	182	33.971	56.798	15.134	0.00	0.00	H
ATOM	2898	HB	VAL	182	34.786	56.758	12.638	0.00	0.00	H
ATOM	2899	HG11	VAL	182	34.451	59.649	12.758	0.00	0.00	H
ATOM	2900	HG12	VAL	182	33.129	58.705	12.013	0.00	0.00	H
ATOM	2901	HG13	VAL	182	34.650	58.544	11.289	0.00	0.00	H
ATOM	2902	HG21	VAL	182	36.717	58.070	13.160	0.00	0.00	H
ATOM	2903	HG22	VAL	182	36.214	57.369	14.598	0.00	0.00	H
ATOM	2904	HG23	VAL	182	35.810	59.057	14.335	0.00	0.00	H
ATOM	2905	N	ALA	183	31.615	58.952	14.651	0.00	0.00	N
ATOM	2906	CA	ALA	183	30.851	59.918	15.447	0.00	0.00	C
ATOM	2907	C	ALA	183	29.425	59.475	15.846	0.00	0.00	C
ATOM	2908	O	ALA	183	28.809	60.011	16.707	0.00	0.00	O
ATOM	2909	CB	ALA	183	30.765	61.224	14.642	0.00	0.00	C
ATOM	2910	H	ALA	183	31.069	58.286	14.124	0.00	0.00	H
ATOM	2911	HA	ALA	183	31.427	60.041	16.364	0.00	0.00	H
ATOM	2912	HB1	ALA	183	30.229	61.986	15.208	0.00	0.00	H
ATOM	2913	HB2	ALA	183	31.791	61.477	14.377	0.00	0.00	H
ATOM	2914	HB3	ALA	183	30.198	60.986	13.741	0.00	0.00	H
ATOM	2915	N	ALA	184	28.876	58.522	15.108	0.00	0.00	N
ATOM	2916	CA	ALA	184	27.476	58.155	15.215	0.00	0.00	C
ATOM	2917	C	ALA	184	27.021	57.585	16.584	0.00	0.00	C
ATOM	2918	O	ALA	184	25.817	57.701	16.907	0.00	0.00	O
ATOM	2919	CB	ALA	184	27.177	57.102	14.174	0.00	0.00	C
ATOM	2920	H	ALA	184	29.436	58.171	14.345	0.00	0.00	H
ATOM	2921	HA	ALA	184	26.814	59.006	15.048	0.00	0.00	H
ATOM	2922	HB1	ALA	184	26.118	56.853	14.108	0.00	0.00	H
ATOM	2923	HB2	ALA	184	27.651	57.496	13.276	0.00	0.00	H
ATOM	2924	HB3	ALA	184	27.651	56.197	14.555	0.00	0.00	H
ATOM	2925	N	LEU	185	27.912	56.948	17.294	0.00	0.00	N
ATOM	2926	CA	LEU	185	27.664	56.269	18.623	0.00	0.00	C
ATOM	2927	C	LEU	185	27.947	57.226	19.763	0.00	0.00	C
ATOM	2928	O	LEU	185	27.423	57.081	20.802	0.00	0.00	O
ATOM	2929	CB	LEU	185	28.470	54.942	18.783	0.00	0.00	C
ATOM	2930	CG	LEU	185	27.899	54.057	19.922	0.00	0.00	C
ATOM	2931	CD1	LEU	185	26.469	53.597	19.699	0.00	0.00	C
ATOM	2932	CD2	LEU	185	28.786	52.835	19.966	0.00	0.00	C
ATOM	2933	H	LEU	185	28.867	56.912	16.969	0.00	0.00	H
ATOM	2934	HA	LEU	185	26.610	55.994	18.654	0.00	0.00	H
ATOM	2935	HB2	LEU	185	28.444	54.411	17.831	0.00	0.00	H
ATOM	2936	HB3	LEU	185	29.538	55.109	18.920	0.00	0.00	H
ATOM	2937	HG	LEU	185	28.008	54.548	20.889	0.00	0.00	H
ATOM	2938	HD11	LEU	185	25.728	54.392	19.785	0.00	0.00	H
ATOM	2939	HD12	LEU	185	26.218	52.824	20.425	0.00	0.00	H
ATOM	2940	HD13	LEU	185	26.400	53.078	18.743	0.00	0.00	H
ATOM	2941	HD21	LEU	185	29.834	53.118	20.067	0.00	0.00	H
ATOM	2942	HD22	LEU	185	28.851	52.254	19.047	0.00	0.00	H
ATOM	2943	HD23	LEU	185	28.448	52.115	20.712	0.00	0.00	H
ATOM	2944	N	ASN	186	28.833	58.260	19.539	0.00	0.00	N
ATOM	2945	CA	ASN	186	29.429	59.100	20.613	0.00	0.00	C
ATOM	2946	C	ASN	186	28.522	60.212	21.159	0.00	0.00	C
ATOM	2947	O	ASN	186	27.925	60.976	20.356	0.00	0.00	O
ATOM	2948	CB	ASN	186	30.690	59.830	20.092	0.00	0.00	C
ATOM	2949	CG	ASN	186	31.274	60.956	20.932	0.00	0.00	C
ATOM	2950	ND2	ASN	186	30.812	62.192	20.694	0.00	0.00	N
ATOM	2951	OD1	ASN	186	32.158	60.830	21.745	0.00	0.00	O
ATOM	2952	H	ASN	186	29.215	58.373	18.610	0.00	0.00	H
ATOM	2953	HA	ASN	186	29.656	58.444	21.454	0.00	0.00	H
ATOM	2954	HB2	ASN	186	31.439	59.089	19.814	0.00	0.00	H
ATOM	2955	HB3	ASN	186	30.380	60.199	19.114	0.00	0.00	H
ATOM	2956	HD21	ASN	186	31.196	62.950	21.240	0.00	0.00	H
ATOM	2957	HD22	ASN	186	30.251	62.297	19.860	0.00	0.00	H

ATOM	2958	N	LEU	187	28.527	60.436	22.455	0.00	0.00	N
ATOM	2959	CA	LEU	187	27.992	61.694	23.039	0.00	0.00	C
ATOM	2960	C	LEU	187	29.092	62.619	23.621	0.00	0.00	C
ATOM	2961	O	LEU	187	29.494	62.579	24.802	0.00	0.00	O
ATOM	2962	CB	LEU	187	26.907	61.393	24.048	0.00	0.00	C
ATOM	2963	CG	LEU	187	26.156	62.741	24.424	0.00	0.00	C
ATOM	2964	CD1	LEU	187	25.606	63.642	23.270	0.00	0.00	C
ATOM	2965	CD2	LEU	187	24.991	62.510	25.348	0.00	0.00	C
ATOM	2966	H	LEU	187	28.971	59.755	23.055	0.00	0.00	H
ATOM	2967	HA	LEU	187	27.508	62.337	22.304	0.00	0.00	H
ATOM	2968	HB2	LEU	187	26.170	60.797	23.512	0.00	0.00	H
ATOM	2969	HB3	LEU	187	27.380	60.843	24.862	0.00	0.00	H
ATOM	2970	HG	LEU	187	26.852	63.358	24.992	0.00	0.00	H
ATOM	2971	HD11	LEU	187	26.412	63.996	22.626	0.00	0.00	H
ATOM	2972	HD12	LEU	187	25.125	64.530	23.680	0.00	0.00	H
ATOM	2973	HD13	LEU	187	25.027	63.133	22.499	0.00	0.00	H
ATOM	2974	HD21	LEU	187	24.163	61.911	24.972	0.00	0.00	H
ATOM	2975	HD22	LEU	187	24.647	63.460	25.758	0.00	0.00	H
ATOM	2976	HD23	LEU	187	25.354	61.889	26.167	0.00	0.00	H
TER	2977		LEU	187						
ATOM	2978	O	WAT	191	10.479	46.931	2.205	0.00	0.00	O
ATOM	2979	H1	WAT	191	9.741	46.940	1.596	0.00	0.00	H
ATOM	2980	H2	WAT	191	10.261	46.243	2.836	0.00	0.00	H
TER	2981		WAT	191						
ATOM	2982	O	WAT	206	6.490	29.530	15.427	0.00	0.00	O
ATOM	2983	H1	WAT	206	6.504	29.830	14.519	0.00	0.00	H
ATOM	2984	H2	WAT	206	5.796	28.871	15.451	0.00	0.00	H
TER	2985		WAT	206						
ATOM	2986	O	WAT	300	8.437	48.928	30.193	0.00	0.00	O
ATOM	2987	H1	WAT	300	8.733	48.489	29.396	0.00	0.00	H
ATOM	2988	H2	WAT	300	8.665	49.848	30.059	0.00	0.00	H
TER	2989		WAT	300						
ATOM	2990	O	WAT	322	9.198	54.205	16.743	0.00	0.00	O
ATOM	2991	H1	WAT	322	9.056	54.053	15.809	0.00	0.00	H
ATOM	2992	H2	WAT	322	8.908	53.396	17.164	0.00	0.00	H
TER	2993		WAT	322						
ATOM	2994	O	WAT	333	35.736	38.454	5.726	0.00	0.00	O
ATOM	2995	H1	WAT	333	35.840	37.750	6.367	0.00	0.00	H
ATOM	2996	H2	WAT	333	35.633	38.001	4.889	0.00	0.00	H
TER	2997		WAT	333						
ATOM	2998	O	WAT	468	25.024	26.466	23.428	0.00	0.00	O
ATOM	2999	H1	WAT	468	24.700	26.697	24.299	0.00	0.00	H
ATOM	3000	H2	WAT	468	25.455	27.260	23.113	0.00	0.00	H
TER	3001		WAT	468						
ATOM	3002	O	WAT	554	14.724	63.364	23.766	0.00	0.00	O
ATOM	3003	H1	WAT	554	15.100	62.712	24.356	0.00	0.00	H
ATOM	3004	H2	WAT	554	13.808	63.433	24.036	0.00	0.00	H
TER	3005		WAT	554						
ATOM	3006	O	WAT	570	34.919	30.549	27.351	0.00	0.00	O
ATOM	3007	H1	WAT	570	33.972	30.683	27.379	0.00	0.00	H
ATOM	3008	H2	WAT	570	35.288	31.424	27.467	0.00	0.00	H
TER	3009		WAT	570						
ATOM	3010	O	WAT	619	29.709	30.332	9.611	0.00	0.00	O
ATOM	3011	H1	WAT	619	30.545	30.744	9.828	0.00	0.00	H
ATOM	3012	H2	WAT	619	29.846	29.402	9.794	0.00	0.00	H
TER	3013		WAT	619						
ATOM	3014	O	WAT	653	26.355	54.787	1.195	0.00	0.00	O
ATOM	3015	H1	WAT	653	26.195	55.636	0.783	0.00	0.00	H
ATOM	3016	H2	WAT	653	25.859	54.165	0.664	0.00	0.00	H
TER	3017		WAT	653						
ATOM	3018	O	WAT	673	5.528	48.222	13.308	0.00	0.00	O
ATOM	3019	H1	WAT	673	4.572	48.190	13.338	0.00	0.00	H
ATOM	3020	H2	WAT	673	5.743	48.090	12.384	0.00	0.00	H
TER	3021		WAT	673						
ATOM	3022	O	WAT	697	19.906	61.714	3.825	0.00	0.00	O
ATOM	3023	H1	WAT	697	20.030	62.221	4.627	0.00	0.00	H
ATOM	3024	H2	WAT	697	20.102	60.812	4.079	0.00	0.00	H
TER	3025		WAT	697						
ATOM	3026	O	WAT	721	31.421	35.437	33.725	0.00	0.00	O
ATOM	3027	H1	WAT	721	32.188	34.907	33.947	0.00	0.00	H
ATOM	3028	H2	WAT	721	31.548	36.255	34.204	0.00	0.00	H
TER	3029		WAT	721						
ATOM	3030	O	WAT	742	16.952	59.473	12.247	0.00	0.00	O
ATOM	3031	H1	WAT	742	17.047	60.423	12.184	0.00	0.00	H
ATOM	3032	H2	WAT	742	16.481	59.226	11.451	0.00	0.00	H
TER	3033		WAT	742						
ATOM	3034	O	WAT	750	28.714	45.821	34.380	0.00	0.00	O
ATOM	3035	H1	WAT	750	28.878	46.540	34.991	0.00	0.00	H
ATOM	3036	H2	WAT	750	28.035	46.156	33.794	0.00	0.00	H
TER	3037		WAT	750						
ATOM	3038	O	WAT	784	43.066	55.832	14.652	0.00	0.00	O
ATOM	3039	H1	WAT	784	42.603	55.094	14.256	0.00	0.00	H
ATOM	3040	H2	WAT	784	42.668	55.928	15.516	0.00	0.00	H
TER	3041		WAT	784						
ATOM	3042	O	WAT	804	12.775	27.590	11.639	0.00	0.00	O
ATOM	3043	H1	WAT	804	13.698	27.439	11.435	0.00	0.00	H
ATOM	3044	H2	WAT	804	12.310	27.345	10.838	0.00	0.00	H
ATOM	3045	O	WAT	805	3.797	32.064	10.560	0.00	0.00	O
ATOM	3046	H1	WAT	805	4.543	32.253	9.993	0.00	0.00	H
ATOM	3047	H2	WAT	805	4.159	32.074	11.446	0.00	0.00	H
TER	3048		WAT	805						
ATOM	3049	O	WAT	845	27.714	38.718	0.524	0.00	0.00	O
ATOM	3050	H1	WAT	845	27.013	38.069	0.480	0.00	0.00	H
ATOM	3051	H2	WAT	845	27.595	39.144	1.372	0.00	0.00	H
TER	3052		WAT	845						
ATOM	3053	O	WAT	857	39.151	44.063	32.842	0.00	0.00	O
ATOM	3054	H1	WAT	857	38.811	44.062	33.737	0.00	0.00	H
ATOM	3055	H2	WAT	857	38.885	44.910	32.485	0.00	0.00	H
TER	3056		WAT	857						
ATOM	3057	O	WAT	897	18.587	35.688	31.280	0.00	0.00	O
ATOM	3058	H1	WAT	897	18.937	36.497	30.909	0.00	0.00	H
ATOM	3059	H2	WAT	897	19.361	35.173	31.508	0.00	0.00	H
TER	3060		WAT	897						
ATOM	3061	O	WAT	901	15.196	20.709	12.545	0.00	0.00	O
ATOM	3062	H1	WAT	901	14.573	20.407	13.206	0.00	0.00	H

ATOM	3063	H2	WAT	901	14.701	21.339	12.020	0.00	0.00	H
TER	3064		WAT	901						
ATOM	3065	O	WAT	908	12.026	39.106	10.131	0.00	0.00	O
ATOM	3066	H1	WAT	908	11.185	39.116	9.673	0.00	0.00	H
ATOM	3067	H2	WAT	908	12.105	38.214	10.468	0.00	0.00	H
TER	3068		WAT	908						
ATOM	3069	O	WAT	927	8.768	53.591	14.022	0.00	0.00	O
ATOM	3070	H1	WAT	927	8.308	54.325	13.616	0.00	0.00	H
ATOM	3071	H2	WAT	927	8.848	52.942	13.324	0.00	0.00	H
TER	3072		WAT	927						
ATOM	3073	O	WAT	934	29.779	48.295	31.874	0.00	0.00	O
ATOM	3074	H1	WAT	934	30.610	47.836	32.000	0.00	0.00	H
ATOM	3075	H2	WAT	934	29.150	47.798	32.395	0.00	0.00	H
TER	3076		WAT	934						
ATOM	3077	O	WAT	955	20.320	28.744	25.502	0.00	0.00	O
ATOM	3078	H1	WAT	955	19.390	28.539	25.406	0.00	0.00	H
ATOM	3079	H2	WAT	955	20.335	29.565	25.993	0.00	0.00	H
TER	3080		WAT	955						
ATOM	3081	O	WAT	1030	25.630	52.636	30.480	0.00	0.00	O
ATOM	3082	H1	WAT	1030	24.761	52.419	30.821	0.00	0.00	H
ATOM	3083	H2	WAT	1030	25.783	51.991	29.790	0.00	0.00	H
TER	3084		WAT	1030						
ATOM	3085	O	WAT	1034	33.381	35.403	42.792	0.00	0.00	O
ATOM	3086	H1	WAT	1034	34.323	35.279	42.911	0.00	0.00	H
ATOM	3087	H2	WAT	1034	33.306	36.230	42.317	0.00	0.00	H
TER	3088		WAT	1034						
ATOM	3089	O	WAT	1068	37.460	32.653	17.157	0.00	0.00	O
ATOM	3090	H1	WAT	1068	38.127	32.562	17.838	0.00	0.00	H
ATOM	3091	H2	WAT	1068	36.694	32.200	17.510	0.00	0.00	H
TER	3092		WAT	1068						
ATOM	3093	O	WAT	1119	8.989	29.290	12.763	0.00	0.00	O
ATOM	3094	H1	WAT	1119	8.064	29.531	12.748	0.00	0.00	H
ATOM	3095	H2	WAT	1119	9.280	29.402	11.858	0.00	0.00	H
TER	3096		WAT	1119						
ATOM	3097	O	WAT	1129	16.227	40.126	31.778	0.00	0.00	O
ATOM	3098	H1	WAT	1129	16.319	39.740	32.649	0.00	0.00	H
ATOM	3099	H2	WAT	1129	15.303	40.370	31.721	0.00	0.00	H
TER	3100		WAT	1129						
ATOM	3101	O	WAT	1144	17.688	48.457	31.937	0.00	0.00	O
ATOM	3102	H1	WAT	1144	18.368	48.466	31.262	0.00	0.00	H
ATOM	3103	H2	WAT	1144	17.235	47.623	31.810	0.00	0.00	H
TER	3104		WAT	1144						
ATOM	3105	O	WAT	1153	36.633	37.865	10.760	0.00	0.00	O
ATOM	3106	H1	WAT	1153	35.914	37.253	10.918	0.00	0.00	H
ATOM	3107	H2	WAT	1153	37.378	37.307	10.539	0.00	0.00	H
TER	3108		WAT	1153						
ATOM	3109	O	WAT	1187	39.430	39.593	43.218	0.00	0.00	O
ATOM	3110	H1	WAT	1187	39.957	38.811	43.055	0.00	0.00	H
ATOM	3111	H2	WAT	1187	38.585	39.403	42.810	0.00	0.00	H
TER	3112		WAT	1187						
ATOM	3113	O	WAT	1202	29.276	38.146	36.144	0.00	0.00	O
ATOM	3114	H1	WAT	1202	29.403	37.491	36.832	0.00	0.00	H
ATOM	3115	H2	WAT	1202	30.075	38.099	35.619	0.00	0.00	H
TER	3116		WAT	1202						
ATOM	3117	O	WAT	1207	12.712	59.110	27.948	0.00	0.00	O
ATOM	3118	H1	WAT	1207	13.101	58.515	27.307	0.00	0.00	H
ATOM	3119	H2	WAT	1207	12.905	58.707	28.795	0.00	0.00	H
TER	3120		WAT	1207						
ATOM	3121	O	WAT	1215	37.335	54.161	10.303	0.00	0.00	O
ATOM	3122	H1	WAT	1215	36.616	54.555	9.809	0.00	0.00	H
ATOM	3123	H2	WAT	1215	37.037	53.271	10.489	0.00	0.00	H
TER	3124		WAT	1215						
ATOM	3125	O	WAT	1228	35.828	35.929	7.140	0.00	0.00	O
ATOM	3126	H1	WAT	1228	35.340	35.653	7.916	0.00	0.00	H
ATOM	3127	H2	WAT	1228	35.667	35.238	6.498	0.00	0.00	H
TER	3128		WAT	1228						
ATOM	3129	O	WAT	1295	8.632	53.219	7.676	0.00	0.00	O
ATOM	3130	H1	WAT	1295	8.636	52.267	7.777	0.00	0.00	H
ATOM	3131	H2	WAT	1295	9.390	53.405	7.121	0.00	0.00	H
TER	3132		WAT	1295						
ATOM	3133	O	WAT	1311	15.384	29.594	26.398	0.00	0.00	O
ATOM	3134	H1	WAT	1311	15.785	30.352	25.972	0.00	0.00	H
ATOM	3135	H2	WAT	1311	14.931	29.957	27.158	0.00	0.00	H
TER	3136		WAT	1311						
ATOM	3137	O	WAT	1315	42.198	54.640	21.130	0.00	0.00	O
ATOM	3138	H1	WAT	1315	42.772	54.992	20.449	0.00	0.00	H
ATOM	3139	H2	WAT	1315	42.595	53.803	21.369	0.00	0.00	H
TER	3140		WAT	1315						
ATOM	3141	O	WAT	1398	7.242	49.549	18.227	0.00	0.00	O
ATOM	3142	H1	WAT	1398	7.024	50.111	18.970	0.00	0.00	H
ATOM	3143	H2	WAT	1398	8.024	49.951	17.845	0.00	0.00	H
ATOM	3144	O	WAT	1399	45.283	33.291	17.053	0.00	0.00	O
ATOM	3145	H1	WAT	1399	46.094	32.941	17.423	0.00	0.00	H
ATOM	3146	H2	WAT	1399	44.821	33.668	17.803	0.00	0.00	H
TER	3147		WAT	1399						
ATOM	3148	O	WAT	1404	22.961	32.479	26.460	0.00	0.00	O
ATOM	3149	H1	WAT	1404	23.282	33.099	27.114	0.00	0.00	H
ATOM	3150	H2	WAT	1404	22.802	31.673	26.952	0.00	0.00	H
TER	3151		WAT	1404						
ATOM	3152	O	WAT	1416	15.013	30.804	19.490	0.00	0.00	O
ATOM	3153	H1	WAT	1416	14.743	30.756	18.573	0.00	0.00	H
ATOM	3154	H2	WAT	1416	15.361	31.691	19.590	0.00	0.00	H
TER	3155		WAT	1416						
ATOM	3156	O	WAT	1442	44.518	46.374	24.886	0.00	0.00	O
ATOM	3157	H1	WAT	1442	44.226	45.468	24.979	0.00	0.00	H
ATOM	3158	H2	WAT	1442	45.450	46.307	24.676	0.00	0.00	H
TER	3159		WAT	1442						
ATOM	3160	O	WAT	1487	16.661	33.844	31.417	0.00	0.00	O
ATOM	3161	H1	WAT	1487	16.964	32.938	31.483	0.00	0.00	H
ATOM	3162	H2	WAT	1487	17.463	34.360	31.336	0.00	0.00	H
TER	3163		WAT	1487						
ATOM	3164	O	WAT	1499	11.072	31.059	27.551	0.00	0.00	O
ATOM	3165	H1	WAT	1499	10.877	30.915	26.625	0.00	0.00	H
ATOM	3166	H2	WAT	1499	10.930	31.997	27.683	0.00	0.00	H
TER	3167		WAT	1499						

ATOM	3168	0	WAT	1508	37.966	54.516	26.275	0.00	0.00	0
ATOM	3169	H1	WAT	1508	37.318	55.179	26.038	0.00	0.00	H
ATOM	3170	H2	WAT	1508	37.748	53.760	25.729	0.00	0.00	H
TER	3171		WAT	1508						
ATOM	3172	0	WAT	1546	24.372	38.257	1.955	0.00	0.00	0
ATOM	3173	H1	WAT	1546	24.049	39.012	1.464	0.00	0.00	H
ATOM	3174	H2	WAT	1546	24.497	38.588	2.845	0.00	0.00	H
TER	3175		WAT	1546						
ATOM	3176	0	WAT	1564	35.056	59.050	18.236	0.00	0.00	0
ATOM	3177	H1	WAT	1564	34.607	59.155	17.396	0.00	0.00	H
ATOM	3178	H2	WAT	1564	35.062	59.927	18.617	0.00	0.00	H
TER	3179		WAT	1564						
ATOM	3180	0	WAT	1592	9.314	35.963	10.805	0.00	0.00	0
ATOM	3181	H1	WAT	1592	8.730	36.060	11.556	0.00	0.00	H
ATOM	3182	H2	WAT	1592	10.171	36.235	11.130	0.00	0.00	H
TER	3183		WAT	1592						
ATOM	3184	0	WAT	1607	31.580	26.483	26.648	0.00	0.00	0
ATOM	3185	H1	WAT	1607	31.000	27.143	27.027	0.00	0.00	H
ATOM	3186	H2	WAT	1607	32.240	26.989	26.172	0.00	0.00	H
TER	3187		WAT	1607						
ATOM	3188	0	WAT	1709	33.807	44.056	38.864	0.00	0.00	0
ATOM	3189	H1	WAT	1709	33.852	43.945	39.814	0.00	0.00	H
ATOM	3190	H2	WAT	1709	34.208	43.262	38.511	0.00	0.00	H
TER	3191		WAT	1709						
ATOM	3192	0	WAT	1721	37.551	30.358	26.968	0.00	0.00	0
ATOM	3193	H1	WAT	1721	37.676	31.179	26.491	0.00	0.00	H
ATOM	3194	H2	WAT	1721	36.604	30.220	26.964	0.00	0.00	H
TER	3195		WAT	1721						
ATOM	3196	0	WAT	1730	16.595	47.792	4.906	0.00	0.00	0
ATOM	3197	H1	WAT	1730	17.039	48.106	4.118	0.00	0.00	H
ATOM	3198	H2	WAT	1730	17.305	47.527	5.491	0.00	0.00	H
TER	3199		WAT	1730						
ATOM	3200	0	WAT	1742	16.081	19.533	18.737	0.00	0.00	0
ATOM	3201	H1	WAT	1742	17.037	19.573	18.702	0.00	0.00	H
ATOM	3202	H2	WAT	1742	15.805	19.602	17.824	0.00	0.00	H
ATOM	3203	0	WAT	1743	30.485	40.458	41.948	0.00	0.00	0
ATOM	3204	H1	WAT	1743	30.759	40.486	41.031	0.00	0.00	H
ATOM	3205	H2	WAT	1743	30.157	41.339	42.128	0.00	0.00	H
TER	3206		WAT	1743						
ATOM	3207	0	WAT	1748	14.138	64.179	31.700	0.00	0.00	0
ATOM	3208	H1	WAT	1748	13.795	64.179	30.807	0.00	0.00	H
ATOM	3209	H2	WAT	1748	14.411	65.083	31.852	0.00	0.00	H
ATOM	3210	0	WAT	1749	6.706	52.020	16.905	0.00	0.00	0
ATOM	3211	H1	WAT	1749	7.608	51.850	17.176	0.00	0.00	H
ATOM	3212	H2	WAT	1749	6.502	51.313	16.293	0.00	0.00	H
ATOM	3213	0	WAT	1750	38.312	38.029	28.131	0.00	0.00	0
ATOM	3214	H1	WAT	1750	38.440	38.642	28.854	0.00	0.00	H
ATOM	3215	H2	WAT	1750	39.105	38.111	27.603	0.00	0.00	H
TER	3216		WAT	1750						
ATOM	3217	0	WAT	1769	22.090	23.253	5.117	0.00	0.00	0
ATOM	3218	H1	WAT	1769	22.547	23.826	5.732	0.00	0.00	H
ATOM	3219	H2	WAT	1769	22.664	22.491	5.028	0.00	0.00	H
TER	3220		WAT	1769						
ATOM	3221	0	WAT	1886	29.070	46.538	29.760	0.00	0.00	0
ATOM	3222	H1	WAT	1886	29.566	47.300	30.060	0.00	0.00	H
ATOM	3223	H2	WAT	1886	28.599	46.849	28.986	0.00	0.00	H
TER	3224		WAT	1886						
ATOM	3225	0	WAT	1941	24.890	30.427	25.582	0.00	0.00	0
ATOM	3226	H1	WAT	1941	25.513	30.628	26.280	0.00	0.00	H
ATOM	3227	H2	WAT	1941	24.249	31.137	25.622	0.00	0.00	H
TER	3228		WAT	1941						
ATOM	3229	0	WAT	1959	27.120	62.190	16.713	0.00	0.00	0
ATOM	3230	H1	WAT	1959	27.798	61.573	16.987	0.00	0.00	H
ATOM	3231	H2	WAT	1959	26.429	62.094	17.367	0.00	0.00	H
TER	3232		WAT	1959						
ATOM	3233	0	WAT	2049	14.140	32.161	8.623	0.00	0.00	0
ATOM	3234	H1	WAT	2049	14.747	31.992	7.902	0.00	0.00	H
ATOM	3235	H2	WAT	2049	14.676	32.078	9.411	0.00	0.00	H
TER	3236		WAT	2049						
ATOM	3237	0	WAT	2067	43.277	43.766	25.101	0.00	0.00	0
ATOM	3238	H1	WAT	2067	43.053	42.982	25.603	0.00	0.00	H
ATOM	3239	H2	WAT	2067	43.694	43.429	24.307	0.00	0.00	H
TER	3240		WAT	2067						
ATOM	3241	0	WAT	2122	25.618	60.993	14.600	0.00	0.00	0
ATOM	3242	H1	WAT	2122	25.249	61.662	14.022	0.00	0.00	H
ATOM	3243	H2	WAT	2122	26.542	60.947	14.354	0.00	0.00	H
TER	3244		WAT	2122						
ATOM	3245	0	WAT	2183	43.124	40.799	32.073	0.00	0.00	0
ATOM	3246	H1	WAT	2183	42.981	41.507	32.702	0.00	0.00	H
ATOM	3247	H2	WAT	2183	42.385	40.205	32.211	0.00	0.00	H
TER	3248		WAT	2183						
ATOM	3249	0	WAT	2209	11.838	41.242	12.011	0.00	0.00	0
ATOM	3250	H1	WAT	2209	12.341	41.103	12.814	0.00	0.00	H
ATOM	3251	H2	WAT	2209	12.119	40.536	11.427	0.00	0.00	H
TER	3252		WAT	2209						
ATOM	3253	0	WAT	2222	39.964	27.231	20.837	0.00	0.00	0
ATOM	3254	H1	WAT	2222	39.172	27.323	21.366	0.00	0.00	H
ATOM	3255	H2	WAT	2222	40.633	26.940	21.457	0.00	0.00	H
TER	3256		WAT	2222						
ATOM	3257	0	WAT	2228	36.240	38.622	26.474	0.00	0.00	0
ATOM	3258	H1	WAT	2228	37.007	38.642	27.047	0.00	0.00	H
ATOM	3259	H2	WAT	2228	36.049	39.544	26.299	0.00	0.00	H
TER	3260		WAT	2228						
ATOM	3261	0	WAT	2314	0.026	29.689	13.261	0.00	0.00	0
ATOM	3262	H1	WAT	2314	0.547	29.059	13.758	0.00	0.00	H
ATOM	3263	H2	WAT	2314	0.435	30.536	13.443	0.00	0.00	H
TER	3264		WAT	2314						
ATOM	3265	0	WAT	2458	22.417	38.518	33.300	0.00	0.00	0
ATOM	3266	H1	WAT	2458	22.454	39.302	32.752	0.00	0.00	H
ATOM	3267	H2	WAT	2458	21.503	38.461	33.578	0.00	0.00	H
TER	3268		WAT	2458						
ATOM	3269	0	WAT	2489	8.036	44.014	22.918	0.00	0.00	0
ATOM	3270	H1	WAT	2489	8.235	44.893	23.240	0.00	0.00	H
ATOM	3271	H2	WAT	2489	8.844	43.726	22.493	0.00	0.00	H
TER	3272		WAT	2489						

ATOM	3273	O	WAT	2590	9.345	43.975	1.672	0.00	0.00	O
ATOM	3274	H1	WAT	2590	10.138	43.482	1.462	0.00	0.00	H
ATOM	3275	H2	WAT	2590	9.499	44.310	2.555	0.00	0.00	H
TER	3276		WAT	2590						
ATOM	3277	O	WAT	2595	25.435	44.902	33.034	0.00	0.00	O
ATOM	3278	H1	WAT	2595	24.698	45.495	32.891	0.00	0.00	H
ATOM	3279	H2	WAT	2595	26.210	45.439	32.865	0.00	0.00	H
TER	3280		WAT	2595						
ATOM	3281	O	WAT	2607	40.774	44.171	13.108	0.00	0.00	O
ATOM	3282	H1	WAT	2607	41.562	43.902	13.581	0.00	0.00	H
ATOM	3283	H2	WAT	2607	40.584	45.049	13.438	0.00	0.00	H
TER	3284		WAT	2607						
ATOM	3285	O	WAT	2611	25.699	26.348	18.148	0.00	0.00	O
ATOM	3286	H1	WAT	2611	25.392	26.521	19.038	0.00	0.00	H
ATOM	3287	H2	WAT	2611	25.473	25.432	17.991	0.00	0.00	H
TER	3288		WAT	2611						
ATOM	3289	O	WAT	2627	47.217	35.841	21.906	0.00	0.00	O
ATOM	3290	H1	WAT	2627	47.175	35.562	20.991	0.00	0.00	H
ATOM	3291	H2	WAT	2627	46.690	35.196	22.378	0.00	0.00	H
TER	3292		WAT	2627						
ATOM	3293	O	WAT	2636	20.273	29.843	7.918	0.00	0.00	O
ATOM	3294	H1	WAT	2636	19.639	29.176	7.654	0.00	0.00	H
ATOM	3295	H2	WAT	2636	20.476	29.632	8.829	0.00	0.00	H
ATOM	3296	O	WAT	2637	12.456	44.502	3.635	0.00	0.00	O
ATOM	3297	H1	WAT	2637	11.770	44.928	4.149	0.00	0.00	H
ATOM	3298	H2	WAT	2637	12.067	44.381	2.768	0.00	0.00	H
TER	3299		WAT	2637						
ATOM	3300	O	WAT	2655	36.492	40.646	11.032	0.00	0.00	O
ATOM	3301	H1	WAT	2655	36.401	39.718	10.819	0.00	0.00	H
ATOM	3302	H2	WAT	2655	36.564	41.082	10.183	0.00	0.00	H
TER	3303		WAT	2655						
ATOM	3304	O	WAT	2686	28.172	62.568	12.447	0.00	0.00	O
ATOM	3305	H1	WAT	2686	28.810	62.926	11.830	0.00	0.00	H
ATOM	3306	H2	WAT	2686	28.323	61.624	12.425	0.00	0.00	H
TER	3307		WAT	2686						
ATOM	3308	O	WAT	2724	37.665	42.561	40.159	0.00	0.00	O
ATOM	3309	H1	WAT	2724	37.654	41.693	39.755	0.00	0.00	H
ATOM	3310	H2	WAT	2724	37.233	43.128	39.519	0.00	0.00	H
TER	3311		WAT	2724						
ATOM	3312	O	WAT	2726	37.685	55.962	20.442	0.00	0.00	O
ATOM	3313	H1	WAT	2726	37.493	55.089	20.101	0.00	0.00	H
ATOM	3314	H2	WAT	2726	38.538	55.873	20.864	0.00	0.00	H
TER	3315		WAT	2726						
ATOM	3316	O	WAT	2731	32.879	21.294	16.318	0.00	0.00	O
ATOM	3317	H1	WAT	2731	32.435	21.759	17.027	0.00	0.00	H
ATOM	3318	H2	WAT	2731	33.663	21.816	16.145	0.00	0.00	H
TER	3319		WAT	2731						
ATOM	3320	O	WAT	2741	1.686	38.463	14.002	0.00	0.00	O
ATOM	3321	H1	WAT	2741	0.887	38.436	13.476	0.00	0.00	H
ATOM	3322	H2	WAT	2741	2.056	37.583	13.920	0.00	0.00	H
TER	3323		WAT	2741						
ATOM	3324	O	WAT	2756	23.295	53.680	-1.763	0.00	0.00	O
ATOM	3325	H1	WAT	2756	23.383	52.941	-1.161	0.00	0.00	H
ATOM	3326	H2	WAT	2756	24.190	53.862	-2.050	0.00	0.00	H
TER	3327		WAT	2756						
ATOM	3328	O	WAT	2764	32.601	60.235	6.955	0.00	0.00	O
ATOM	3329	H1	WAT	2764	32.578	60.522	7.867	0.00	0.00	H
ATOM	3330	H2	WAT	2764	31.887	59.601	6.884	0.00	0.00	H
TER	3331		WAT	2764						
ATOM	3332	O	WAT	2781	41.562	42.696	33.494	0.00	0.00	O
ATOM	3333	H1	WAT	2781	41.636	42.749	34.446	0.00	0.00	H
ATOM	3334	H2	WAT	2781	40.736	43.135	33.292	0.00	0.00	H
TER	3335		WAT	2781						
ATOM	3336	O	WAT	2855	29.437	33.130	40.605	0.00	0.00	O
ATOM	3337	H1	WAT	2855	29.642	33.902	40.080	0.00	0.00	H
ATOM	3338	H2	WAT	2855	29.025	33.480	41.395	0.00	0.00	H
TER	3339		WAT	2855						
ATOM	3340	O	WAT	2860	34.300	59.391	23.258	0.00	0.00	O
ATOM	3341	H1	WAT	2860	35.155	59.312	22.834	0.00	0.00	H
ATOM	3342	H2	WAT	2860	33.755	59.842	22.614	0.00	0.00	H
TER	3343		WAT	2860						
ATOM	3344	O	WAT	2893	15.048	43.603	4.647	0.00	0.00	O
ATOM	3345	H1	WAT	2893	14.745	44.096	3.885	0.00	0.00	H
ATOM	3346	H2	WAT	2893	14.355	43.716	5.298	0.00	0.00	H
TER	3347		WAT	2893						
ATOM	3348	O	WAT	2916	24.304	44.055	35.382	0.00	0.00	O
ATOM	3349	H1	WAT	2916	24.826	43.413	35.862	0.00	0.00	H
ATOM	3350	H2	WAT	2916	24.836	44.269	34.614	0.00	0.00	H
TER	3351		WAT	2916						
ATOM	3352	O	WAT	2935	23.887	58.918	15.049	0.00	0.00	O
ATOM	3353	H1	WAT	2935	24.467	59.591	14.692	0.00	0.00	H
ATOM	3354	H2	WAT	2935	24.408	58.487	15.725	0.00	0.00	H
TER	3355		WAT	2935						
ATOM	3356	O	WAT	2954	10.265	36.018	28.152	0.00	0.00	O
ATOM	3357	H1	WAT	2954	10.415	36.958	28.056	0.00	0.00	H
ATOM	3358	H2	WAT	2954	11.115	35.619	27.967	0.00	0.00	H
TER	3359		WAT	2954						
ATOM	3360	O	WAT	3014	6.505	47.633	28.308	0.00	0.00	O
ATOM	3361	H1	WAT	3014	6.350	46.700	28.457	0.00	0.00	H
ATOM	3362	H2	WAT	3014	7.231	47.659	27.685	0.00	0.00	H
TER	3363		WAT	3014						
ATOM	3364	O	WAT	3058	23.348	62.960	6.390	0.00	0.00	O
ATOM	3365	H1	WAT	3058	23.150	62.246	6.996	0.00	0.00	H
ATOM	3366	H2	WAT	3058	23.904	62.558	5.722	0.00	0.00	H
TER	3367		WAT	3058						
ATOM	3368	O	WAT	3117	6.352	37.794	25.161	0.00	0.00	O
ATOM	3369	H1	WAT	3117	5.944	38.052	24.334	0.00	0.00	H
ATOM	3370	H2	WAT	3117	7.208	37.447	24.907	0.00	0.00	H
TER	3371		WAT	3117						
ATOM	3372	O	WAT	3124	41.138	52.195	15.278	0.00	0.00	O
ATOM	3373	H1	WAT	3124	41.319	52.834	14.588	0.00	0.00	H
ATOM	3374	H2	WAT	3124	41.469	51.366	14.931	0.00	0.00	H
TER	3375		WAT	3124						
ATOM	3376	O	WAT	3133	10.085	40.605	24.330	0.00	0.00	O
ATOM	3377	H1	WAT	3133	10.631	39.894	24.664	0.00	0.00	H

ATOM	3378	H2	WAT	3133	9.393	40.165	23.836	0.00	0.00	H
TER	3379		WAT	3133						
ATOM	3380	O	WAT	3148	32.954	44.558	6.358	0.00	0.00	O
ATOM	3381	H1	WAT	3148	32.605	45.005	7.129	0.00	0.00	H
ATOM	3382	H2	WAT	3148	33.799	44.210	6.644	0.00	0.00	H
TER	3383		WAT	3148						
ATOM	3384	O	WAT	3175	23.214	26.593	3.562	0.00	0.00	O
ATOM	3385	H1	WAT	3175	23.256	26.352	4.487	0.00	0.00	H
ATOM	3386	H2	WAT	3175	22.782	25.850	3.141	0.00	0.00	H
TER	3387		WAT	3175						
ATOM	3388	O	WAT	3186	24.153	46.692	22.042	0.00	0.00	O
ATOM	3389	H1	WAT	3186	23.206	46.562	22.097	0.00	0.00	H
ATOM	3390	H2	WAT	3186	24.524	45.963	22.539	0.00	0.00	H
TER	3391		WAT	3186						
ATOM	3392	O	WAT	3260	18.900	42.158	0.987	0.00	0.00	O
ATOM	3393	H1	WAT	3260	18.534	42.754	0.333	0.00	0.00	H
ATOM	3394	H2	WAT	3260	19.651	42.631	1.348	0.00	0.00	H
TER	3395		WAT	3260						
ATOM	3396	O	WAT	3285	22.230	27.465	17.041	0.00	0.00	O
ATOM	3397	H1	WAT	3285	21.875	26.601	17.247	0.00	0.00	H
ATOM	3398	H2	WAT	3285	22.383	27.442	16.097	0.00	0.00	H
TER	3399		WAT	3285						
ATOM	3400	O	WAT	3295	2.820	41.133	13.828	0.00	0.00	O
ATOM	3401	H1	WAT	3295	2.630	40.198	13.745	0.00	0.00	H
ATOM	3402	H2	WAT	3295	2.802	41.298	14.771	0.00	0.00	H
TER	3403		WAT	3295						
ATOM	3404	O	WAT	3298	34.805	61.901	15.348	0.00	0.00	O
ATOM	3405	H1	WAT	3298	35.461	61.698	14.682	0.00	0.00	H
ATOM	3406	H2	WAT	3298	34.191	61.167	15.311	0.00	0.00	H
TER	3407		WAT	3298						
ATOM	3408	O	WAT	3306	13.559	40.295	32.368	0.00	0.00	O
ATOM	3409	H1	WAT	3306	13.173	41.077	32.760	0.00	0.00	H
ATOM	3410	H2	WAT	3306	12.837	39.888	31.887	0.00	0.00	H
TER	3411		WAT	3306						
ATOM	3412	O	WAT	3312	6.356	48.268	7.933	0.00	0.00	O
ATOM	3413	H1	WAT	3312	5.761	47.842	7.316	0.00	0.00	H
ATOM	3414	H2	WAT	3312	7.197	48.291	7.476	0.00	0.00	H
TER	3415		WAT	3312						
ATOM	3416	O	WAT	3317	3.797	42.268	20.430	0.00	0.00	O
ATOM	3417	H1	WAT	3317	4.029	41.340	20.375	0.00	0.00	H
ATOM	3418	H2	WAT	3317	4.435	42.639	21.039	0.00	0.00	H
TER	3419		WAT	3317						
ATOM	3420	O	WAT	3333	23.396	60.132	21.469	0.00	0.00	O
ATOM	3421	H1	WAT	3333	24.115	60.529	20.978	0.00	0.00	H
ATOM	3422	H2	WAT	3333	22.622	60.627	21.202	0.00	0.00	H
TER	3423		WAT	3333						
ATOM	3424	O	WAT	3347	10.749	42.150	30.911	0.00	0.00	O
ATOM	3425	H1	WAT	3347	10.084	41.476	30.777	0.00	0.00	H
ATOM	3426	H2	WAT	3347	11.558	41.758	30.582	0.00	0.00	H
TER	3427		WAT	3347						
ATOM	3428	O	WAT	3353	32.028	63.926	22.732	0.00	0.00	O
ATOM	3429	H1	WAT	3353	31.963	64.625	22.080	0.00	0.00	H
ATOM	3430	H2	WAT	3353	32.964	63.866	22.926	0.00	0.00	H
TER	3431		WAT	3353						
ATOM	3432	O	WAT	3364	29.239	52.537	-2.453	0.00	0.00	O
ATOM	3433	H1	WAT	3364	29.305	51.592	-2.590	0.00	0.00	H
ATOM	3434	H2	WAT	3364	28.333	52.677	-2.182	0.00	0.00	H
TER	3435		WAT	3364						
ATOM	3436	O	WAT	3366	32.140	60.538	9.697	0.00	0.00	O
ATOM	3437	H1	WAT	3366	31.889	59.747	10.174	0.00	0.00	H
ATOM	3438	H2	WAT	3366	32.418	61.150	10.377	0.00	0.00	H
TER	3439		WAT	3366						
ATOM	3440	O	WAT	3376	8.908	40.569	29.586	0.00	0.00	O
ATOM	3441	H1	WAT	3376	8.908	41.191	28.859	0.00	0.00	H
ATOM	3442	H2	WAT	3376	9.355	39.797	29.239	0.00	0.00	H
TER	3443		WAT	3376						
ATOM	3444	O	WAT	3404	24.308	37.894	6.543	0.00	0.00	O
ATOM	3445	H1	WAT	3404	24.047	37.257	7.208	0.00	0.00	H
ATOM	3446	H2	WAT	3404	24.736	38.594	7.037	0.00	0.00	H
ATOM	3447	O	WAT	3405	24.354	39.687	35.688	0.00	0.00	O
ATOM	3448	H1	WAT	3405	24.194	39.356	34.804	0.00	0.00	H
ATOM	3449	H2	WAT	3405	25.302	39.617	35.800	0.00	0.00	H
TER	3450		WAT	3405						
ATOM	3451	O	WAT	3520	39.863	46.827	35.903	0.00	0.00	O
ATOM	3452	H1	WAT	3520	40.652	46.505	35.467	0.00	0.00	H
ATOM	3453	H2	WAT	3520	39.414	46.036	36.201	0.00	0.00	H
TER	3454		WAT	3520						
ATOM	3455	O	WAT	3541	1.649	42.139	18.973	0.00	0.00	O
ATOM	3456	H1	WAT	3541	1.955	42.539	18.159	0.00	0.00	H
ATOM	3457	H2	WAT	3541	2.433	42.082	19.521	0.00	0.00	H
TER	3458		WAT	3541						
ATOM	3459	O	WAT	3545	25.256	45.913	-1.422	0.00	0.00	O
ATOM	3460	H1	WAT	3545	24.387	45.616	-1.686	0.00	0.00	H
ATOM	3461	H2	WAT	3545	25.111	46.790	-1.065	0.00	0.00	H
TER	3462		WAT	3545						
ATOM	3463	O	WAT	3586	30.961	57.565	17.483	0.00	0.00	O
ATOM	3464	H1	WAT	3586	31.415	57.541	18.325	0.00	0.00	H
ATOM	3465	H2	WAT	3586	31.338	56.838	16.987	0.00	0.00	H
TER	3466		WAT	3586						
ATOM	3467	O	WAT	3613	30.006	36.699	29.699	0.00	0.00	O
ATOM	3468	H1	WAT	3613	29.317	37.324	29.476	0.00	0.00	H
ATOM	3469	H2	WAT	3613	29.709	36.296	30.515	0.00	0.00	H
TER	3470		WAT	3613						
ATOM	3471	O	WAT	3617	29.772	63.223	27.518	0.00	0.00	O
ATOM	3472	H1	WAT	3617	29.655	62.926	26.616	0.00	0.00	H
ATOM	3473	H2	WAT	3617	28.926	63.060	27.935	0.00	0.00	H
TER	3474		WAT	3617						
ATOM	3475	O	WAT	3708	22.825	65.362	26.553	0.00	0.00	O
ATOM	3476	H1	WAT	3708	22.497	64.651	27.103	0.00	0.00	H
ATOM	3477	H2	WAT	3708	23.774	65.338	26.672	0.00	0.00	H
TER	3478		WAT	3708						
ATOM	3479	O	WAT	3725	44.804	38.048	32.963	0.00	0.00	O
ATOM	3480	H1	WAT	3725	43.929	38.108	33.345	0.00	0.00	H
ATOM	3481	H2	WAT	3725	45.247	38.846	33.252	0.00	0.00	H
TER	3482		WAT	3725						

ATOM	3483	0	WAT	3745	-1.604	37.383	15.063	0.00	0.00	0
ATOM	3484	H1	WAT	3745	-1.538	37.403	14.108	0.00	0.00	H
ATOM	3485	H2	WAT	3745	-1.947	36.512	15.261	0.00	0.00	H
TER	3486		WAT	3745						
ATOM	3487	0	WAT	3747	32.244	22.287	18.869	0.00	0.00	0
ATOM	3488	H1	WAT	3747	31.351	22.496	19.142	0.00	0.00	H
ATOM	3489	H2	WAT	3747	32.522	21.595	19.469	0.00	0.00	H
TER	3490		WAT	3747						
ATOM	3491	0	WAT	3755	7.920	29.311	25.999	0.00	0.00	0
ATOM	3492	H1	WAT	3755	8.092	30.044	25.408	0.00	0.00	H
ATOM	3493	H2	WAT	3755	7.107	28.925	25.671	0.00	0.00	H
TER	3494		WAT	3755						
ATOM	3495	0	WAT	3778	20.619	56.102	27.956	0.00	0.00	0
ATOM	3496	H1	WAT	3778	21.066	56.679	28.575	0.00	0.00	H
ATOM	3497	H2	WAT	3778	19.706	56.389	27.977	0.00	0.00	H
TER	3498		WAT	3778						
ATOM	3499	0	WAT	3840	30.037	33.937	7.839	0.00	0.00	0
ATOM	3500	H1	WAT	3840	29.633	34.643	7.335	0.00	0.00	H
ATOM	3501	H2	WAT	3840	30.206	34.322	8.699	0.00	0.00	H
TER	3502		WAT	3840						
ATOM	3503	0	WAT	3862	19.833	23.930	8.057	0.00	0.00	0
ATOM	3504	H1	WAT	3862	19.845	23.209	8.687	0.00	0.00	H
ATOM	3505	H2	WAT	3862	20.751	24.061	7.824	0.00	0.00	H
TER	3506		WAT	3862						
ATOM	3507	0	WAT	3904	32.110	30.971	27.527	0.00	0.00	0
ATOM	3508	H1	WAT	3904	31.852	31.101	28.440	0.00	0.00	H
ATOM	3509	H2	WAT	3904	31.584	30.227	27.233	0.00	0.00	H
TER	3510		WAT	3904						
ATOM	3511	0	WAT	3907	23.634	49.526	3.715	0.00	0.00	0
ATOM	3512	H1	WAT	3907	23.937	49.996	2.938	0.00	0.00	H
ATOM	3513	H2	WAT	3907	23.382	48.662	3.390	0.00	0.00	H
TER	3514		WAT	3907						
ATOM	3515	0	WAT	3930	6.302	42.215	8.518	0.00	0.00	0
ATOM	3516	H1	WAT	3930	6.467	41.319	8.809	0.00	0.00	H
ATOM	3517	H2	WAT	3930	7.001	42.395	7.889	0.00	0.00	H
TER	3518		WAT	3930						
ATOM	3519	0	WAT	3939	18.170	63.852	25.417	0.00	0.00	0
ATOM	3520	H1	WAT	3939	17.498	63.170	25.423	0.00	0.00	H
ATOM	3521	H2	WAT	3939	18.946	63.420	25.058	0.00	0.00	H
TER	3522		WAT	3939						
ATOM	3523	0	WAT	3986	7.210	48.867	24.569	0.00	0.00	0
ATOM	3524	H1	WAT	3986	8.015	49.030	24.076	0.00	0.00	H
ATOM	3525	H2	WAT	3986	7.496	48.811	25.481	0.00	0.00	H
TER	3526		WAT	3986						
ATOM	3527	0	WAT	4011	24.860	51.307	33.798	0.00	0.00	0
ATOM	3528	H1	WAT	4011	25.377	50.536	33.568	0.00	0.00	H
ATOM	3529	H2	WAT	4011	23.977	51.107	33.487	0.00	0.00	H
TER	3530		WAT	4011						
ATOM	3531	0	WAT	4028	15.819	28.678	13.180	0.00	0.00	0
ATOM	3532	H1	WAT	4028	16.704	28.419	13.438	0.00	0.00	H
ATOM	3533	H2	WAT	4028	15.613	28.119	12.431	0.00	0.00	H
TER	3534		WAT	4028						
ATOM	3535	0	WAT	4161	32.252	56.750	19.711	0.00	0.00	0
ATOM	3536	H1	WAT	4161	33.164	56.512	19.546	0.00	0.00	H
ATOM	3537	H2	WAT	4161	32.158	56.692	20.662	0.00	0.00	H
TER	3538		WAT	4161						
ATOM	3539	0	WAT	4175	3.869	39.203	21.257	0.00	0.00	0
ATOM	3540	H1	WAT	4175	4.776	39.046	21.519	0.00	0.00	H
ATOM	3541	H2	WAT	4175	3.378	39.195	22.079	0.00	0.00	H
TER	3542		WAT	4175						
ATOM	3543	0	WAT	4182	34.930	45.581	32.983	0.00	0.00	0
ATOM	3544	H1	WAT	4182	34.097	45.537	33.452	0.00	0.00	H
ATOM	3545	H2	WAT	4182	35.593	45.592	33.673	0.00	0.00	H
TER	3546		WAT	4182						
ATOM	3547	0	WAT	4187	30.052	40.995	3.001	0.00	0.00	0
ATOM	3548	H1	WAT	4187	29.861	41.390	2.151	0.00	0.00	H
ATOM	3549	H2	WAT	4187	29.361	40.345	3.124	0.00	0.00	H
TER	3550		WAT	4187						
ATOM	3551	0	WAT	4195	9.017	42.226	4.211	0.00	0.00	0
ATOM	3552	H1	WAT	4195	9.066	43.128	4.527	0.00	0.00	H
ATOM	3553	H2	WAT	4195	8.312	42.237	3.563	0.00	0.00	H
TER	3554		WAT	4195						
ATOM	3555	0	WAT	4216	3.436	29.214	12.493	0.00	0.00	0
ATOM	3556	H1	WAT	4216	4.087	28.623	12.873	0.00	0.00	H
ATOM	3557	H2	WAT	4216	3.863	30.071	12.491	0.00	0.00	H
TER	3558		WAT	4216						
ATOM	3559	0	WAT	4228	25.308	61.453	19.715	0.00	0.00	0
ATOM	3560	H1	WAT	4228	26.224	61.179	19.774	0.00	0.00	H
ATOM	3561	H2	WAT	4228	25.013	61.124	18.866	0.00	0.00	H
TER	3562		WAT	4228						
ATOM	3563	0	WAT	4259	20.890	39.698	2.968	0.00	0.00	0
ATOM	3564	H1	WAT	4259	21.290	39.647	2.100	0.00	0.00	H
ATOM	3565	H2	WAT	4259	21.632	39.739	3.571	0.00	0.00	H
TER	3566		WAT	4259						
ATOM	3567	0	WAT	4274	18.448	27.729	7.114	0.00	0.00	0
ATOM	3568	H1	WAT	4274	17.819	27.534	7.808	0.00	0.00	H
ATOM	3569	H2	WAT	4274	18.180	27.170	6.385	0.00	0.00	H
TER	3570		WAT	4274						
ATOM	3571	0	WAT	4296	20.083	58.906	0.303	0.00	0.00	0
ATOM	3572	H1	WAT	4296	20.788	59.418	-0.093	0.00	0.00	H
ATOM	3573	H2	WAT	4296	19.460	58.765	-0.410	0.00	0.00	H
TER	3574		WAT	4296						
ATOM	3575	0	WAT	4317	13.575	45.321	8.104	0.00	0.00	0
ATOM	3576	H1	WAT	4317	13.639	45.696	7.226	0.00	0.00	H
ATOM	3577	H2	WAT	4317	13.507	44.377	7.958	0.00	0.00	H
TER	3578		WAT	4317						
ATOM	3579	0	WAT	4320	22.551	54.776	30.921	0.00	0.00	0
ATOM	3580	H1	WAT	4320	21.602	54.690	30.838	0.00	0.00	H
ATOM	3581	H2	WAT	4320	22.894	53.928	30.640	0.00	0.00	H
TER	3582		WAT	4320						
ATOM	3583	0	WAT	4324	36.338	43.979	5.516	0.00	0.00	0
ATOM	3584	H1	WAT	4324	35.774	44.138	4.759	0.00	0.00	H
ATOM	3585	H2	WAT	4324	35.731	43.849	6.245	0.00	0.00	H
TER	3586		WAT	4324						
ATOM	3587	0	WAT	4364	29.783	22.539	24.684	0.00	0.00	0

ATOM	3588	H1	WAT	4364	29.525	22.203	23.827	0.00	0.00	H
ATOM	3589	H2	WAT	4364	29.282	23.349	24.785	0.00	0.00	H
TER	3590		WAT	4364						
ATOM	3591	O	WAT	4391	12.289	49.477	30.006	0.00	0.00	O
ATOM	3592	H1	WAT	4391	11.764	49.057	29.324	0.00	0.00	H
ATOM	3593	H2	WAT	4391	12.961	49.960	29.528	0.00	0.00	H
TER	3594		WAT	4391						
ATOM	3595	O	WAT	4405	26.272	49.868	-1.346	0.00	0.00	O
ATOM	3596	H1	WAT	4405	26.397	49.059	-0.851	0.00	0.00	H
ATOM	3597	H2	WAT	4405	27.104	50.003	-1.800	0.00	0.00	H
TER	3598		WAT	4405						
ATOM	3599	O	WAT	4423	43.787	37.660	19.617	0.00	0.00	O
ATOM	3600	H1	WAT	4423	43.694	36.759	19.310	0.00	0.00	H
ATOM	3601	H2	WAT	4423	42.911	38.036	19.527	0.00	0.00	H
TER	3602		WAT	4423						
ATOM	3603	O	WAT	4433	37.817	51.122	1.353	0.00	0.00	O
ATOM	3604	H1	WAT	4433	38.735	50.986	1.587	0.00	0.00	H
ATOM	3605	H2	WAT	4433	37.338	50.483	1.881	0.00	0.00	H
TER	3606		WAT	4433						
ATOM	3607	O	WAT	4467	20.134	36.029	27.941	0.00	0.00	O
ATOM	3608	H1	WAT	4467	20.563	36.547	28.622	0.00	0.00	H
ATOM	3609	H2	WAT	4467	19.200	36.202	28.060	0.00	0.00	H
TER	3610		WAT	4467						
ATOM	3611	O	WAT	4474	22.108	35.445	30.874	0.00	0.00	O
ATOM	3612	H1	WAT	4474	21.517	34.914	31.408	0.00	0.00	H
ATOM	3613	H2	WAT	4474	21.534	36.056	30.415	0.00	0.00	H
TER	3614		WAT	4474						
ATOM	3615	O	WAT	4489	25.760	48.048	36.028	0.00	0.00	O
ATOM	3616	H1	WAT	4489	26.158	48.080	35.158	0.00	0.00	H
ATOM	3617	H2	WAT	4489	26.302	48.631	36.562	0.00	0.00	H
TER	3618		WAT	4489						
ATOM	3619	O	WAT	4492	30.572	35.374	41.703	0.00	0.00	O
ATOM	3620	H1	WAT	4492	31.487	35.227	41.943	0.00	0.00	H
ATOM	3621	H2	WAT	4492	30.513	35.085	40.792	0.00	0.00	H
TER	3622		WAT	4492						
ATOM	3623	O	WAT	4579	18.404	21.700	20.115	0.00	0.00	O
ATOM	3624	H1	WAT	4579	17.923	22.440	19.745	0.00	0.00	H
ATOM	3625	H2	WAT	4579	18.295	20.999	19.472	0.00	0.00	H
TER	3626		WAT	4579						
ATOM	3627	O	WAT	4611	15.690	27.625	6.266	0.00	0.00	O
ATOM	3628	H1	WAT	4611	15.172	28.383	5.995	0.00	0.00	H
ATOM	3629	H2	WAT	4611	15.794	27.731	7.211	0.00	0.00	H
TER	3630		WAT	4611						
ATOM	3631	O	WAT	4620	41.172	49.991	13.528	0.00	0.00	O
ATOM	3632	H1	WAT	4620	41.067	49.085	13.816	0.00	0.00	H
ATOM	3633	H2	WAT	4620	40.361	50.186	13.056	0.00	0.00	H
TER	3634		WAT	4620						
ATOM	3635	O	WAT	4622	35.922	53.110	6.893	0.00	0.00	O
ATOM	3636	H1	WAT	4622	36.052	52.280	6.433	0.00	0.00	H
ATOM	3637	H2	WAT	4622	35.460	52.869	7.695	0.00	0.00	H
TER	3638		WAT	4622						
ATOM	3639	O	WAT	4646	8.863	36.992	24.731	0.00	0.00	O
ATOM	3640	H1	WAT	4646	9.559	37.330	25.294	0.00	0.00	H
ATOM	3641	H2	WAT	4646	8.824	37.609	24.000	0.00	0.00	H
TER	3642		WAT	4646						
ATOM	3643	O	WAT	4658	31.715	46.651	-0.705	0.00	0.00	O
ATOM	3644	H1	WAT	4658	31.810	46.892	0.217	0.00	0.00	H
ATOM	3645	H2	WAT	4658	31.399	47.449	-1.129	0.00	0.00	H
TER	3646		WAT	4658						
ATOM	3647	O	WAT	4676	19.676	59.422	6.480	0.00	0.00	O
ATOM	3648	H1	WAT	4676	20.146	59.104	5.709	0.00	0.00	H
ATOM	3649	H2	WAT	4676	20.019	58.898	7.203	0.00	0.00	H
TER	3650		WAT	4676						
ATOM	3651	O	WAT	4704	14.010	18.633	16.211	0.00	0.00	O
ATOM	3652	H1	WAT	4704	13.257	18.909	16.733	0.00	0.00	H
ATOM	3653	H2	WAT	4704	13.748	18.801	15.307	0.00	0.00	H
TER	3654		WAT	4704						
ATOM	3655	O	WAT	4747	47.874	32.878	21.198	0.00	0.00	O
ATOM	3656	H1	WAT	4747	48.449	32.466	21.842	0.00	0.00	H
ATOM	3657	H2	WAT	4747	47.050	32.396	21.268	0.00	0.00	H
TER	3658		WAT	4747						
ATOM	3659	O	WAT	4801	38.799	33.379	14.884	0.00	0.00	O
ATOM	3660	H1	WAT	4801	38.111	33.172	15.516	0.00	0.00	H
ATOM	3661	H2	WAT	4801	39.543	33.652	15.420	0.00	0.00	H
TER	3662		WAT	4801						
ATOM	3663	O	WAT	4810	23.426	48.803	34.178	0.00	0.00	O
ATOM	3664	H1	WAT	4810	24.378	48.811	34.084	0.00	0.00	H
ATOM	3665	H2	WAT	4810	23.101	49.169	33.355	0.00	0.00	H
TER	3666		WAT	4810						
ATOM	3667	O	WAT	4853	14.884	26.966	26.698	0.00	0.00	O
ATOM	3668	H1	WAT	4853	14.998	27.903	26.542	0.00	0.00	H
ATOM	3669	H2	WAT	4853	14.741	26.894	27.642	0.00	0.00	H
TER	3670		WAT	4853						
ATOM	3671	O	WAT	4872	17.623	28.303	25.125	0.00	0.00	O
ATOM	3672	H1	WAT	4872	16.958	28.577	25.757	0.00	0.00	H
ATOM	3673	H2	WAT	4872	17.295	28.614	24.282	0.00	0.00	H
TER	3674		WAT	4872						
ATOM	3675	O	WAT	4880	29.977	57.560	23.519	0.00	0.00	O
ATOM	3676	H1	WAT	4880	29.589	56.955	24.153	0.00	0.00	H
ATOM	3677	H2	WAT	4880	30.811	57.155	23.282	0.00	0.00	H
TER	3678		WAT	4880						
ATOM	3679	O	WAT	4929	28.094	50.475	34.588	0.00	0.00	O
ATOM	3680	H1	WAT	4929	28.579	50.761	33.814	0.00	0.00	H
ATOM	3681	H2	WAT	4929	27.415	49.895	34.246	0.00	0.00	H
TER	3682		WAT	4929						
ATOM	3683	O	WAT	4962	37.167	27.675	27.608	0.00	0.00	O
ATOM	3684	H1	WAT	4962	37.412	28.525	27.972	0.00	0.00	H
ATOM	3685	H2	WAT	4962	37.339	27.758	26.670	0.00	0.00	H
TER	3686		WAT	4962						
ATOM	3687	O	WAT	4965	36.259	32.711	13.207	0.00	0.00	O
ATOM	3688	H1	WAT	4965	36.759	32.037	13.665	0.00	0.00	H
ATOM	3689	H2	WAT	4965	36.626	32.722	12.322	0.00	0.00	H
TER	3690		WAT	4965						
ATOM	3691	O	WAT	4987	20.589	46.423	32.587	0.00	0.00	O
ATOM	3692	H1	WAT	4987	20.310	47.281	32.905	0.00	0.00	H

ATOM	3693	H2	WAT	4987	21.504	46.353	32.857	0.00	0.00	H
TER	3694		WAT	4987						
ATOM	3695	O	WAT	4992	40.026	43.408	38.652	0.00	0.00	O
ATOM	3696	H1	WAT	4992	39.371	42.948	39.177	0.00	0.00	H
ATOM	3697	H2	WAT	4992	39.994	44.311	38.966	0.00	0.00	H
ATOM	3698	O	WAT	4993	44.048	55.423	19.379	0.00	0.00	O
ATOM	3699	H1	WAT	4993	44.982	55.266	19.237	0.00	0.00	H
ATOM	3700	H2	WAT	4993	43.899	56.303	19.033	0.00	0.00	H
TER	3701		WAT	4993						
ATOM	3702	O	WAT	5022	36.065	56.220	25.378	0.00	0.00	O
ATOM	3703	H1	WAT	5022	36.801	56.793	25.163	0.00	0.00	H
ATOM	3704	H2	WAT	5022	35.582	56.693	26.055	0.00	0.00	H
TER	3705		WAT	5022						
ATOM	3706	O	WAT	5049	26.470	36.642	31.452	0.00	0.00	O
ATOM	3707	H1	WAT	5049	25.595	36.651	31.843	0.00	0.00	H
ATOM	3708	H2	WAT	5049	26.664	37.562	31.277	0.00	0.00	H
TER	3709		WAT	5049						
ATOM	3710	O	WAT	5055	19.587	24.883	20.502	0.00	0.00	O
ATOM	3711	H1	WAT	5055	18.649	24.742	20.375	0.00	0.00	H
ATOM	3712	H2	WAT	5055	20.006	24.227	19.946	0.00	0.00	H
TER	3713		WAT	5055						
ATOM	3714	O	WAT	5081	20.497	61.012	23.078	0.00	0.00	O
ATOM	3715	H1	WAT	5081	20.486	60.194	23.573	0.00	0.00	H
ATOM	3716	H2	WAT	5081	19.687	60.996	22.569	0.00	0.00	H
TER	3717		WAT	5081						
ATOM	3718	O	WAT	5129	22.645	62.516	10.289	0.00	0.00	O
ATOM	3719	H1	WAT	5129	23.023	61.898	9.663	0.00	0.00	H
ATOM	3720	H2	WAT	5129	22.517	63.320	9.785	0.00	0.00	H
TER	3721		WAT	5129						
ATOM	3722	O	WAT	5132	13.024	58.428	16.349	0.00	0.00	O
ATOM	3723	H1	WAT	5132	12.525	57.691	15.994	0.00	0.00	H
ATOM	3724	H2	WAT	5132	13.762	58.020	16.801	0.00	0.00	H
TER	3725		WAT	5132						
ATOM	3726	O	WAT	5188	13.146	59.306	20.302	0.00	0.00	O
ATOM	3727	H1	WAT	5188	12.493	58.662	20.029	0.00	0.00	H
ATOM	3728	H2	WAT	5188	13.528	58.937	21.099	0.00	0.00	H
TER	3729		WAT	5188						
ATOM	3730	O	WAT	5192	23.103	40.794	25.372	0.00	0.00	O
ATOM	3731	H1	WAT	5192	22.453	40.603	24.696	0.00	0.00	H
ATOM	3732	H2	WAT	5192	22.589	41.096	26.121	0.00	0.00	H
TER	3733		WAT	5192						
ATOM	3734	O	WAT	5215	27.666	34.330	37.718	0.00	0.00	O
ATOM	3735	H1	WAT	5215	28.462	34.845	37.578	0.00	0.00	H
ATOM	3736	H2	WAT	5215	26.961	34.885	37.381	0.00	0.00	H
TER	3737		WAT	5215						
ATOM	3738	O	WAT	5240	14.427	27.067	15.303	0.00	0.00	O
ATOM	3739	H1	WAT	5240	14.631	27.361	16.190	0.00	0.00	H
ATOM	3740	H2	WAT	5240	14.885	27.686	14.734	0.00	0.00	H
ATOM	3741	O	WAT	5241	9.255	54.576	21.642	0.00	0.00	O
ATOM	3742	H1	WAT	5241	9.459	55.477	21.388	0.00	0.00	H
ATOM	3743	H2	WAT	5241	10.058	54.256	22.052	0.00	0.00	H
TER	3744		WAT	5241						
ATOM	3745	O	WAT	5248	11.297	52.780	27.951	0.00	0.00	O
ATOM	3746	H1	WAT	5248	10.495	53.128	27.562	0.00	0.00	H
ATOM	3747	H2	WAT	5248	11.825	52.502	27.203	0.00	0.00	H
TER	3748		WAT	5248						
ATOM	3749	O	WAT	5254	22.149	23.152	9.928	0.00	0.00	O
ATOM	3750	H1	WAT	5254	22.586	23.241	9.082	0.00	0.00	H
ATOM	3751	H2	WAT	5254	22.148	22.210	10.098	0.00	0.00	H
TER	3752		WAT	5254						
ATOM	3753	O	WAT	5276	12.048	34.754	31.869	0.00	0.00	O
ATOM	3754	H1	WAT	5276	11.217	35.073	31.515	0.00	0.00	H
ATOM	3755	H2	WAT	5276	12.713	35.285	31.432	0.00	0.00	H
TER	3756		WAT	5276						
ATOM	3757	O	WAT	5307	6.087	28.225	10.859	0.00	0.00	O
ATOM	3758	H1	WAT	5307	6.078	28.911	11.525	0.00	0.00	H
ATOM	3759	H2	WAT	5307	5.462	27.574	11.177	0.00	0.00	H
TER	3760		WAT	5307						
ATOM	3761	O	WAT	5342	19.338	59.733	10.339	0.00	0.00	O
ATOM	3762	H1	WAT	5342	19.816	60.374	10.865	0.00	0.00	H
ATOM	3763	H2	WAT	5342	18.522	60.174	10.106	0.00	0.00	H
TER	3764		WAT	5342						
ATOM	3765	O	WAT	5351	10.291	40.310	5.948	0.00	0.00	O
ATOM	3766	H1	WAT	5351	10.091	40.800	6.745	0.00	0.00	H
ATOM	3767	H2	WAT	5351	9.754	40.724	5.272	0.00	0.00	H
TER	3768		WAT	5351						
ATOM	3769	O	WAT	5519	26.114	39.138	33.334	0.00	0.00	O
ATOM	3770	H1	WAT	5519	26.088	38.231	33.636	0.00	0.00	H
ATOM	3771	H2	WAT	5519	26.312	39.074	32.399	0.00	0.00	H
TER	3772		WAT	5519						
ATOM	3773	O	WAT	5555	39.554	47.983	11.347	0.00	0.00	O
ATOM	3774	H1	WAT	5555	39.636	47.650	12.240	0.00	0.00	H
ATOM	3775	H2	WAT	5555	39.043	48.787	11.438	0.00	0.00	H
TER	3776		WAT	5555						
ATOM	3777	O	WAT	5558	23.687	43.077	28.722	0.00	0.00	O
ATOM	3778	H1	WAT	5558	23.429	43.922	28.352	0.00	0.00	H
ATOM	3779	H2	WAT	5558	22.904	42.533	28.645	0.00	0.00	H
TER	3780		WAT	5558						
ATOM	3781	O	WAT	5583	14.079	60.626	36.372	0.00	0.00	O
ATOM	3782	H1	WAT	5583	13.727	61.211	37.043	0.00	0.00	H
ATOM	3783	H2	WAT	5583	13.368	60.010	36.194	0.00	0.00	H
TER	3784		WAT	5583						
ATOM	3785	O	WAT	5653	36.337	56.443	8.331	0.00	0.00	O
ATOM	3786	H1	WAT	5653	36.221	56.643	7.401	0.00	0.00	H
ATOM	3787	H2	WAT	5653	37.252	56.657	8.508	0.00	0.00	H
TER	3788		WAT	5653						
ATOM	3789	O	WAT	5671	46.143	44.652	13.233	0.00	0.00	O
ATOM	3790	H1	WAT	5671	46.941	44.327	13.650	0.00	0.00	H
ATOM	3791	H2	WAT	5671	45.969	45.488	13.666	0.00	0.00	H
TER	3792		WAT	5671						
ATOM	3793	O	WAT	5795	39.900	45.236	17.464	0.00	0.00	O
ATOM	3794	H1	WAT	5795	39.121	45.583	17.899	0.00	0.00	H
ATOM	3795	H2	WAT	5795	39.715	45.332	16.529	0.00	0.00	H
TER	3796		WAT	5795						
ATOM	3797	O	WAT	5803	40.340	43.742	36.023	0.00	0.00	O

ATOM	3798	H1	WAT	5803	39.535	44.183	35.750	0.00	0.00	H
ATOM	3799	H2	WAT	5803	40.165	43.460	36.921	0.00	0.00	H
TER	3800		WAT	5803						
ATOM	3801	O	WAT	5831	24.846	22.860	8.229	0.00	0.00	O
ATOM	3802	H1	WAT	5831	24.197	23.509	7.960	0.00	0.00	H
ATOM	3803	H2	WAT	5831	25.619	23.061	7.699	0.00	0.00	H
TER	3804		WAT	5831						
ATOM	3805	O	WAT	5835	32.644	53.799	10.342	0.00	0.00	O
ATOM	3806	H1	WAT	5835	32.859	54.661	9.984	0.00	0.00	H
ATOM	3807	H2	WAT	5835	33.310	53.216	9.979	0.00	0.00	H
TER	3808		WAT	5835						
ATOM	3809	O	WAT	5853	22.486	29.910	28.010	0.00	0.00	O
ATOM	3810	H1	WAT	5853	22.629	28.976	28.161	0.00	0.00	H
ATOM	3811	H2	WAT	5853	21.537	29.996	27.918	0.00	0.00	H
TER	3812		WAT	5853						
ATOM	3813	O	WAT	5856	9.833	42.890	12.951	0.00	0.00	O
ATOM	3814	H1	WAT	5856	10.024	42.712	13.871	0.00	0.00	H
ATOM	3815	H2	WAT	5856	10.605	42.576	12.480	0.00	0.00	H
TER	3816		WAT	5856						
ATOM	3817	O	WAT	5934	38.138	40.621	7.821	0.00	0.00	O
ATOM	3818	H1	WAT	5934	37.876	40.831	6.926	0.00	0.00	H
ATOM	3819	H2	WAT	5934	37.605	41.199	8.369	0.00	0.00	H
TER	3820		WAT	5934						
ATOM	3821	O	WAT	5950	20.220	51.403	34.054	0.00	0.00	O
ATOM	3822	H1	WAT	5950	20.723	51.568	34.851	0.00	0.00	H
ATOM	3823	H2	WAT	5950	20.878	51.340	33.363	0.00	0.00	H
TER	3824		WAT	5950						
ATOM	3825	O	WAT	5952	10.832	31.458	21.816	0.00	0.00	O
ATOM	3826	H1	WAT	5952	10.784	31.054	22.683	0.00	0.00	H
ATOM	3827	H2	WAT	5952	11.727	31.792	21.758	0.00	0.00	H
TER	3828		WAT	5952						
ATOM	3829	O	WAT	6017	14.172	25.159	10.223	0.00	0.00	O
ATOM	3830	H1	WAT	6017	14.644	25.910	10.581	0.00	0.00	H
ATOM	3831	H2	WAT	6017	13.522	25.543	9.634	0.00	0.00	H
ATOM	3832	O	WAT	6018	38.202	27.098	18.484	0.00	0.00	O
ATOM	3833	H1	WAT	6018	38.124	27.781	19.150	0.00	0.00	H
ATOM	3834	H2	WAT	6018	38.266	26.283	18.983	0.00	0.00	H
TER	3835		WAT	6018						
ATOM	3836	O	WAT	6055	26.958	58.974	4.415	0.00	0.00	O
ATOM	3837	H1	WAT	6055	27.330	59.163	5.277	0.00	0.00	H
ATOM	3838	H2	WAT	6055	27.719	58.805	3.858	0.00	0.00	H
TER	3839		WAT	6055						
ATOM	3840	O	WAT	6057	41.197	53.263	25.725	0.00	0.00	O
ATOM	3841	H1	WAT	6057	40.457	52.734	26.021	0.00	0.00	H
ATOM	3842	H2	WAT	6057	41.891	52.628	25.551	0.00	0.00	H
TER	3843		WAT	6057						
ATOM	3844	O	WAT	6070	39.023	34.493	33.006	0.00	0.00	O
ATOM	3845	H1	WAT	6070	38.197	34.544	32.527	0.00	0.00	H
ATOM	3846	H2	WAT	6070	39.638	34.104	32.384	0.00	0.00	H
TER	3847		WAT	6070						
ATOM	3848	O	WAT	6077	6.116	35.796	22.007	0.00	0.00	O
ATOM	3849	H1	WAT	6077	6.246	35.748	21.060	0.00	0.00	H
ATOM	3850	H2	WAT	6077	6.041	36.732	22.192	0.00	0.00	H
TER	3851		WAT	6077						
ATOM	3852	O	WAT	6137	21.074	58.371	8.578	0.00	0.00	O
ATOM	3853	H1	WAT	6137	21.847	57.915	8.911	0.00	0.00	H
ATOM	3854	H2	WAT	6137	20.736	58.850	9.335	0.00	0.00	H
TER	3855		WAT	6137						
ATOM	3856	O	WAT	6141	23.544	52.586	27.880	0.00	0.00	O
ATOM	3857	H1	WAT	6141	23.670	51.758	27.417	0.00	0.00	H
ATOM	3858	H2	WAT	6141	23.474	52.336	28.802	0.00	0.00	H
TER	3859		WAT	6141						
ATOM	3860	O	WAT	6166	6.586	44.580	5.988	0.00	0.00	O
ATOM	3861	H1	WAT	6166	6.194	43.713	5.884	0.00	0.00	H
ATOM	3862	H2	WAT	6166	7.511	44.406	6.159	0.00	0.00	H
TER	3863		WAT	6166						
ATOM	3864	O	WAT	6170	15.619	57.251	32.320	0.00	0.00	O
ATOM	3865	H1	WAT	6170	16.424	57.663	32.004	0.00	0.00	H
ATOM	3866	H2	WAT	6170	15.918	56.475	32.792	0.00	0.00	H
TER	3867		WAT	6170						
ATOM	3868	O	WAT	6192	7.840	38.948	27.130	0.00	0.00	O
ATOM	3869	H1	WAT	6192	8.752	38.762	26.904	0.00	0.00	H
ATOM	3870	H2	WAT	6192	7.338	38.627	26.381	0.00	0.00	H
ATOM	3871	O	WAT	6193	32.751	49.908	-3.676	0.00	0.00	O
ATOM	3872	H1	WAT	6193	32.781	49.676	-4.604	0.00	0.00	H
ATOM	3873	H2	WAT	6193	31.832	49.808	-3.434	0.00	0.00	H
TER	3874		WAT	6193						
ATOM	3875	O	WAT	6207	19.299	55.186	5.769	0.00	0.00	O
ATOM	3876	H1	WAT	6207	18.615	55.836	5.611	0.00	0.00	H
ATOM	3877	H2	WAT	6207	18.835	54.431	6.130	0.00	0.00	H
TER	3878		WAT	6207						
ATOM	3879	O	WAT	6221	38.743	46.419	9.167	0.00	0.00	O
ATOM	3880	H1	WAT	6221	37.906	46.865	9.039	0.00	0.00	H
ATOM	3881	H2	WAT	6221	39.128	46.847	9.932	0.00	0.00	H
TER	3882		WAT	6221						
ATOM	3883	O	WAT	6274	18.870	58.059	2.937	0.00	0.00	O
ATOM	3884	H1	WAT	6274	19.145	58.259	2.042	0.00	0.00	H
ATOM	3885	H2	WAT	6274	19.673	58.121	3.454	0.00	0.00	H
TER	3886		WAT	6274						
ATOM	3887	O	WAT	6299	4.774	46.813	15.688	0.00	0.00	O
ATOM	3888	H1	WAT	6299	5.540	47.290	15.369	0.00	0.00	H
ATOM	3889	H2	WAT	6299	4.084	47.475	15.742	0.00	0.00	H
TER	3890		WAT	6299						
ATOM	3891	O	WAT	6312	43.006	33.202	31.019	0.00	0.00	O
ATOM	3892	H1	WAT	6312	43.055	32.249	31.091	0.00	0.00	H
ATOM	3893	H2	WAT	6312	42.068	33.391	30.976	0.00	0.00	H
TER	3894		WAT	6312						
ATOM	3895	O	WAT	6321	32.737	46.715	2.171	0.00	0.00	O
ATOM	3896	H1	WAT	6321	33.624	46.383	2.308	0.00	0.00	H
ATOM	3897	H2	WAT	6321	32.753	47.600	2.536	0.00	0.00	H
TER	3898		WAT	6321						
ATOM	3899	O	WAT	6323	31.892	56.592	26.968	0.00	0.00	O
ATOM	3900	H1	WAT	6323	31.549	56.287	27.808	0.00	0.00	H
ATOM	3901	H2	WAT	6323	31.635	57.514	26.925	0.00	0.00	H
TER	3902		WAT	6323						

ATOM	3903	O	WAT	6340	21.071	63.326	24.427	0.00	0.00	O
ATOM	3904	H1	WAT	6340	21.120	63.108	25.358	0.00	0.00	H
ATOM	3905	H2	WAT	6340	20.960	62.482	23.990	0.00	0.00	H
TER	3906		WAT	6340						
ATOM	3907	O	WAT	6385	35.153	49.425	30.080	0.00	0.00	O
ATOM	3908	H1	WAT	6385	35.469	48.525	30.167	0.00	0.00	H
ATOM	3909	H2	WAT	6385	34.590	49.555	30.843	0.00	0.00	H
TER	3910		WAT	6385						
ATOM	3911	O	WAT	6395	44.393	36.082	35.980	0.00	0.00	O
ATOM	3912	H1	WAT	6395	45.216	36.569	35.938	0.00	0.00	H
ATOM	3913	H2	WAT	6395	43.791	36.583	35.431	0.00	0.00	H
TER	3914		WAT	6395						
ATOM	3915	O	WAT	6404	36.812	47.839	36.335	0.00	0.00	O
ATOM	3916	H1	WAT	6404	37.592	47.645	36.855	0.00	0.00	H
ATOM	3917	H2	WAT	6404	36.577	47.003	35.934	0.00	0.00	H
TER	3918		WAT	6404						
ATOM	3919	O	WAT	6506	20.824	19.439	20.746	0.00	0.00	O
ATOM	3920	H1	WAT	6506	20.105	18.889	21.055	0.00	0.00	H
ATOM	3921	H2	WAT	6506	20.394	20.166	20.296	0.00	0.00	H
TER	3922		WAT	6506						
ATOM	3923	O	WAT	6522	41.187	36.112	36.628	0.00	0.00	O
ATOM	3924	H1	WAT	6522	40.298	35.758	36.616	0.00	0.00	H
ATOM	3925	H2	WAT	6522	41.127	36.891	37.181	0.00	0.00	H
ATOM	3926	O	WAT	6523	11.439	53.699	14.294	0.00	0.00	O
ATOM	3927	H1	WAT	6523	10.511	53.583	14.091	0.00	0.00	H
ATOM	3928	H2	WAT	6523	11.865	52.930	13.914	0.00	0.00	H
TER	3929		WAT	6523						
ATOM	3930	O	WAT	6698	26.281	36.704	4.099	0.00	0.00	O
ATOM	3931	H1	WAT	6698	25.827	37.536	3.968	0.00	0.00	H
ATOM	3932	H2	WAT	6698	25.581	36.052	4.140	0.00	0.00	H
TER	3933		WAT	6698						
ATOM	3934	O	WAT	6708	44.353	39.000	16.967	0.00	0.00	O
ATOM	3935	H1	WAT	6708	43.729	38.667	17.612	0.00	0.00	H
ATOM	3936	H2	WAT	6708	44.402	38.313	16.303	0.00	0.00	H
TER	3937		WAT	6708						
ATOM	3938	O	WAT	6715	14.622	50.756	28.941	0.00	0.00	O
ATOM	3939	H1	WAT	6715	15.112	51.431	28.471	0.00	0.00	H
ATOM	3940	H2	WAT	6715	14.874	50.872	29.857	0.00	0.00	H
ATOM	3941	O	WAT	6716	19.695	35.093	5.674	0.00	0.00	O
ATOM	3942	H1	WAT	6716	19.241	34.254	5.760	0.00	0.00	H
ATOM	3943	H2	WAT	6716	19.565	35.522	6.521	0.00	0.00	H
TER	3944		WAT	6716						
ATOM	3945	O	WAT	6755	23.489	58.184	0.189	0.00	0.00	O
ATOM	3946	H1	WAT	6755	23.681	58.641	-0.630	0.00	0.00	H
ATOM	3947	H2	WAT	6755	24.348	57.935	0.531	0.00	0.00	H
TER	3948		WAT	6755						
ATOM	3949	O	WAT	6770	15.741	25.396	24.843	0.00	0.00	O
ATOM	3950	H1	WAT	6770	15.428	26.040	25.480	0.00	0.00	H
ATOM	3951	H2	WAT	6770	15.144	25.486	24.100	0.00	0.00	H
TER	3952		WAT	6770						
ATOM	3953	O	WAT	6781	7.278	44.408	27.034	0.00	0.00	O
ATOM	3954	H1	WAT	6781	6.692	44.461	27.790	0.00	0.00	H
ATOM	3955	H2	WAT	6781	7.162	43.517	26.704	0.00	0.00	H
TER	3956		WAT	6781						
ATOM	3957	O	WAT	6818	28.059	39.468	39.379	0.00	0.00	O
ATOM	3958	H1	WAT	6818	28.932	39.856	39.317	0.00	0.00	H
ATOM	3959	H2	WAT	6818	28.220	38.554	39.613	0.00	0.00	H
TER	3960		WAT	6818						
ATOM	3961	O	WAT	6865	37.962	50.544	8.854	0.00	0.00	O
ATOM	3962	H1	WAT	6865	37.548	50.991	9.592	0.00	0.00	H
ATOM	3963	H2	WAT	6865	38.736	50.124	9.231	0.00	0.00	H
TER	3964		WAT	6865						
ATOM	3965	O	WAT	6910	34.048	48.806	34.253	0.00	0.00	O
ATOM	3966	H1	WAT	6910	33.835	48.574	35.157	0.00	0.00	H
ATOM	3967	H2	WAT	6910	33.336	48.432	33.735	0.00	0.00	H
TER	3968		WAT	6910						
ATOM	3969	O	WAT	6917	28.421	36.944	39.991	0.00	0.00	O
ATOM	3970	H1	WAT	6917	29.073	36.584	39.391	0.00	0.00	H
ATOM	3971	H2	WAT	6917	28.741	36.708	40.862	0.00	0.00	H
TER	3972		WAT	6917						
ATOM	3973	O	WAT	6959	25.159	48.103	0.752	0.00	0.00	O
ATOM	3974	H1	WAT	6959	25.251	47.883	1.678	0.00	0.00	H
ATOM	3975	H2	WAT	6959	24.917	49.029	0.748	0.00	0.00	H
TER	3976		WAT	6959						
ATOM	3977	O	WAT	7039	14.751	46.922	34.845	0.00	0.00	O
ATOM	3978	H1	WAT	7039	15.392	47.529	35.215	0.00	0.00	H
ATOM	3979	H2	WAT	7039	14.882	46.984	33.899	0.00	0.00	H
TER	3980		WAT	7039						
ATOM	3981	O	WAT	7071	19.970	60.476	31.271	0.00	0.00	O
ATOM	3982	H1	WAT	7071	19.715	60.635	30.362	0.00	0.00	H
ATOM	3983	H2	WAT	7071	20.610	59.766	31.219	0.00	0.00	H
ATOM	3984	O	WAT	7072	43.185	28.461	24.680	0.00	0.00	O
ATOM	3985	H1	WAT	7072	43.151	29.418	24.680	0.00	0.00	H
ATOM	3986	H2	WAT	7072	42.953	28.212	23.786	0.00	0.00	H
TER	3987		WAT	7072						
ATOM	3988	O	WAT	7137	22.714	46.730	0.501	0.00	0.00	O
ATOM	3989	H1	WAT	7137	23.447	47.177	0.923	0.00	0.00	H
ATOM	3990	H2	WAT	7137	22.013	46.751	1.153	0.00	0.00	H
TER	3991		WAT	7137						
ATOM	3992	O	WAT	7140	12.563	24.610	23.027	0.00	0.00	O
ATOM	3993	H1	WAT	7140	13.251	24.915	22.435	0.00	0.00	H
ATOM	3994	H2	WAT	7140	12.574	23.657	22.936	0.00	0.00	H
TER	3995		WAT	7140						
ATOM	3996	O	WAT	7211	46.389	41.916	18.914	0.00	0.00	O
ATOM	3997	H1	WAT	7211	46.628	41.424	18.128	0.00	0.00	H
ATOM	3998	H2	WAT	7211	45.553	42.327	18.694	0.00	0.00	H
TER	3999		WAT	7211						
ATOM	4000	O	WAT	7229	8.474	46.737	10.278	0.00	0.00	O
ATOM	4001	H1	WAT	7229	9.073	46.003	10.415	0.00	0.00	H
ATOM	4002	H2	WAT	7229	7.667	46.332	9.960	0.00	0.00	H
TER	4003		WAT	7229						
ATOM	4004	O	WAT	7235	26.350	56.252	26.475	0.00	0.00	O
ATOM	4005	H1	WAT	7235	26.797	56.021	27.290	0.00	0.00	H
ATOM	4006	H2	WAT	7235	25.548	55.728	26.485	0.00	0.00	H
TER	4007		WAT	7235						

ATOM	4008	O	WAT	7259	19.819	59.958	17.251	0.00	0.00	O
ATOM	4009	H1	WAT	7259	19.744	59.667	18.160	0.00	0.00	H
ATOM	4010	H2	WAT	7259	18.917	60.125	16.977	0.00	0.00	H
TER	4011		WAT	7259						
ATOM	4012	O	WAT	7293	42.438	36.215	25.704	0.00	0.00	O
ATOM	4013	H1	WAT	7293	41.831	35.495	25.871	0.00	0.00	H
ATOM	4014	H2	WAT	7293	43.101	36.135	26.391	0.00	0.00	H
TER	4015		WAT	7293						
ATOM	4016	O	WAT	7401	18.146	25.216	9.692	0.00	0.00	O
ATOM	4017	H1	WAT	7401	17.502	25.847	9.371	0.00	0.00	H
ATOM	4018	H2	WAT	7401	18.662	24.986	8.920	0.00	0.00	H
TER	4019		WAT	7401						
ATOM	4020	O	WAT	7411	16.527	38.284	4.638	0.00	0.00	O
ATOM	4021	H1	WAT	7411	15.968	37.808	4.023	0.00	0.00	H
ATOM	4022	H2	WAT	7411	15.990	38.381	5.424	0.00	0.00	H
TER	4023		WAT	7411						
ATOM	4024	O	WAT	7418	31.637	38.908	43.623	0.00	0.00	O
ATOM	4025	H1	WAT	7418	32.163	38.469	42.954	0.00	0.00	H
ATOM	4026	H2	WAT	7418	30.947	39.352	43.131	0.00	0.00	H
TER	4027		WAT	7418						
ATOM	4028	O	WAT	7483	6.699	40.249	12.623	0.00	0.00	O
ATOM	4029	H1	WAT	7483	5.799	40.413	12.346	0.00	0.00	H
ATOM	4030	H2	WAT	7483	6.617	39.886	13.506	0.00	0.00	H
TER	4031		WAT	7483						
ATOM	4032	O	WAT	7491	38.799	50.946	11.984	0.00	0.00	O
ATOM	4033	H1	WAT	7491	37.999	51.193	11.520	0.00	0.00	H
ATOM	4034	H2	WAT	7491	39.486	51.468	11.570	0.00	0.00	H
TER	4035		WAT	7491						
ATOM	4036	O	WAT	7533	26.118	24.713	6.111	0.00	0.00	O
ATOM	4037	H1	WAT	7533	25.180	24.888	6.189	0.00	0.00	H
ATOM	4038	H2	WAT	7533	26.453	25.436	5.583	0.00	0.00	H
TER	4039		WAT	7533						
ATOM	4040	O	WAT	7538	34.391	62.551	20.532	0.00	0.00	O
ATOM	4041	H1	WAT	7538	35.324	62.417	20.698	0.00	0.00	H
ATOM	4042	H2	WAT	7538	33.954	61.892	21.073	0.00	0.00	H
TER	4043		WAT	7538						
ATOM	4044	O	WAT	7621	27.579	41.691	35.396	0.00	0.00	O
ATOM	4045	H1	WAT	7621	27.251	41.791	36.289	0.00	0.00	H
ATOM	4046	H2	WAT	7621	27.897	40.788	35.358	0.00	0.00	H
TER	4047		WAT	7621						
ATOM	4048	O	WAT	7702	41.957	49.993	26.428	0.00	0.00	O
ATOM	4049	H1	WAT	7702	42.468	50.772	26.646	0.00	0.00	H
ATOM	4050	H2	WAT	7702	42.350	49.667	25.618	0.00	0.00	H
TER	4051		WAT	7702						
ATOM	4052	O	WAT	7719	21.813	41.068	27.771	0.00	0.00	O
ATOM	4053	H1	WAT	7719	21.540	40.240	28.168	0.00	0.00	H
ATOM	4054	H2	WAT	7719	21.180	41.709	28.096	0.00	0.00	H
TER	4055		WAT	7719						
ATOM	4056	O	WAT	7727	45.855	52.155	19.469	0.00	0.00	O
ATOM	4057	H1	WAT	7727	46.224	53.032	19.374	0.00	0.00	H
ATOM	4058	H2	WAT	7727	45.078	52.280	20.015	0.00	0.00	H
TER	4059		WAT	7727						
ATOM	4060	O	WAT	7767	33.755	46.598	36.166	0.00	0.00	O
ATOM	4061	H1	WAT	7767	34.586	46.332	35.773	0.00	0.00	H
ATOM	4062	H2	WAT	7767	34.004	47.053	36.971	0.00	0.00	H
TER	4063		WAT	7767						
ATOM	4064	O	WAT	7772	36.470	56.910	5.586	0.00	0.00	O
ATOM	4065	H1	WAT	7772	36.257	57.843	5.623	0.00	0.00	H
ATOM	4066	H2	WAT	7772	35.746	56.518	5.100	0.00	0.00	H
TER	4067		WAT	7772						
ATOM	4068	O	WAT	7791	27.927	50.032	-4.941	0.00	0.00	O
ATOM	4069	H1	WAT	7791	28.269	49.897	-4.057	0.00	0.00	H
ATOM	4070	H2	WAT	7791	28.038	49.185	-5.372	0.00	0.00	H
TER	4071		WAT	7791						
ATOM	4072	O	WAT	7796	35.128	26.363	24.561	0.00	0.00	O
ATOM	4073	H1	WAT	7796	36.043	26.626	24.458	0.00	0.00	H
ATOM	4074	H2	WAT	7796	34.866	26.063	23.690	0.00	0.00	H
TER	4075		WAT	7796						
ATOM	4076	O	WAT	7851	35.898	32.586	30.190	0.00	0.00	O
ATOM	4077	H1	WAT	7851	36.048	33.015	29.348	0.00	0.00	H
ATOM	4078	H2	WAT	7851	36.775	32.419	30.533	0.00	0.00	H
TER	4079		WAT	7851						
ATOM	4080	O	WAT	7862	24.372	56.899	19.056	0.00	0.00	O
ATOM	4081	H1	WAT	7862	24.960	57.321	18.431	0.00	0.00	H
ATOM	4082	H2	WAT	7862	23.740	56.430	18.512	0.00	0.00	H
TER	4083		WAT	7862						
ATOM	4084	O	WAT	7876	38.026	24.631	26.045	0.00	0.00	O
ATOM	4085	H1	WAT	7876	37.855	25.388	25.486	0.00	0.00	H
ATOM	4086	H2	WAT	7876	37.884	24.953	26.936	0.00	0.00	H
TER	4087		WAT	7876						
ATOM	4088	O	WAT	7916	30.337	47.820	-4.686	0.00	0.00	O
ATOM	4089	H1	WAT	7916	30.381	48.148	-3.788	0.00	0.00	H
ATOM	4090	H2	WAT	7916	31.014	48.310	-5.154	0.00	0.00	H
TER	4091		WAT	7916						
ATOM	4092	O	WAT	7929	16.783	57.697	20.801	0.00	0.00	O
ATOM	4093	H1	WAT	7929	16.629	56.826	20.436	0.00	0.00	H
ATOM	4094	H2	WAT	7929	16.349	57.678	21.655	0.00	0.00	H
TER	4095		WAT	7929						
ATOM	4096	O	WAT	7961	40.116	47.711	1.733	0.00	0.00	O
ATOM	4097	H1	WAT	7961	39.861	48.118	0.905	0.00	0.00	H
ATOM	4098	H2	WAT	7961	40.452	48.434	2.262	0.00	0.00	H
TER	4099		WAT	7961						
ATOM	4100	O	WAT	7972	23.048	39.302	4.613	0.00	0.00	O
ATOM	4101	H1	WAT	7972	23.969	39.377	4.361	0.00	0.00	H
ATOM	4102	H2	WAT	7972	23.059	38.762	5.402	0.00	0.00	H
TER	4103		WAT	7972						
ATOM	4104	O	WAT	8016	36.450	25.376	22.160	0.00	0.00	O
ATOM	4105	H1	WAT	8016	36.392	25.575	21.226	0.00	0.00	H
ATOM	4106	H2	WAT	8016	37.175	25.913	22.476	0.00	0.00	H
TER	4107		WAT	8016						
ATOM	4108	O	WAT	8051	13.483	56.139	11.390	0.00	0.00	O
ATOM	4109	H1	WAT	8051	14.133	55.687	11.926	0.00	0.00	H
ATOM	4110	H2	WAT	8051	13.786	57.047	11.360	0.00	0.00	H
TER	4111		WAT	8051						
ATOM	4112	O	WAT	8083	12.627	50.996	6.130	0.00	0.00	O

ATOM	4113	H1	WAT	8083	12.269	50.636	6.941	0.00	0.00	H
ATOM	4114	H2	WAT	8083	13.569	51.059	6.291	0.00	0.00	H
TER	4115		WAT	8083						
ATOM	4116	O	WAT	8149	17.452	52.243	33.769	0.00	0.00	O
ATOM	4117	H1	WAT	8149	17.572	53.175	33.946	0.00	0.00	H
ATOM	4118	H2	WAT	8149	18.331	51.869	33.839	0.00	0.00	H
TER	4119		WAT	8149						
ATOM	4120	O	WAT	8157	11.710	39.145	30.676	0.00	0.00	O
ATOM	4121	H1	WAT	8157	11.293	39.044	29.821	0.00	0.00	H
ATOM	4122	H2	WAT	8157	11.045	38.858	31.302	0.00	0.00	H
END										

DATASET 57

HEADER APOPTOSIS 29-OCT-11 XXXX
 TITLE 3D MODEL OF BAK IN COMPLEX WITH THE BH3 DOMAIN OF BIM
 COMPND MOLECULE: APOPTOSIS REGULATOR BAK;
 COMPND 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
 COMPND 3 PROTEIN;
 SOURCE MOLECULE 1 (RESIDUES 1-24): BIM;
 SOURCE 2 NCBI ACCESSION: O43521;
 SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 4 ORGANISM_COMMON: HUMAN;
 SOURCE 5 MOLECULE 2 (RESIDUES 25-187): BAK;
 SOURCE 6 NCBI ACCESSION: Q16611;
 SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 8 ORGANISM_COMMON: HUMAN;
 KEYWDS HETERODIMER, APOPTOSIS
 EXPDTA THEORETICAL MODEL
 JRNL AUTH Y-P PANG, H DAI, A SMITH, XW MENG, PA SCHNEIDER, SH KAUFMANN
 JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING:
 JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
 JRNL REF SCIENTIFIC REPORTS, SUBMITTED
 REMARK 220 THIS IS AN AVERAGE OF CLUSTER 2 CONTAINING 250 SIMILAR
 REMARK 220 CONFORMERS IDENTIFIED BY CLUSTER ANALYSIS OF 80 10-NS MOLECULAR
 REMARK 220 DYNAMICS SIMULATIONS OF BAK*BIM USING PMEMD WITH THE
 REMARK 220 FF99SB FORCE FIELD. NO ENERGY MINIMIZATION IS APPLIED
 REMARK 220 TO THIS AVERAGE STRUCTURE.

MOL 1

ATOM	1	N	ARG	1	6.143	27.394	13.378	0.00	0.00	
ATOM	2	H	ARG	1	6.581	27.345	14.044	0.00	0.00	
ATOM	3	CA	ARG	1	5.812	28.600	12.702	0.00	0.00	
ATOM	4	HA	ARG	1	4.981	28.407	12.076	0.00	0.00	
ATOM	5	CB	ARG	1	6.980	28.995	11.820	0.00	0.00	
ATOM	6	HB2	ARG	1	6.741	29.898	11.335	0.00	0.00	
ATOM	7	HB3	ARG	1	7.826	29.168	12.426	0.00	0.00	
ATOM	8	CG	ARG	1	7.325	27.985	10.757	0.00	0.00	
ATOM	9	HG2	ARG	1	7.564	27.056	11.192	0.00	0.00	
ATOM	10	HG3	ARG	1	6.473	27.860	10.144	0.00	0.00	
ATOM	11	CD	ARG	1	8.489	28.414	9.893	0.00	0.00	
ATOM	12	HD2	ARG	1	8.558	27.760	9.065	0.00	0.00	
ATOM	13	HD3	ARG	1	8.301	29.386	9.541	0.00	0.00	
ATOM	14	NE	ARG	1	9.741	28.385	10.593	0.00	0.00	
ATOM	15	HE	ARG	1	9.712	28.146	11.520	0.00	0.00	
ATOM	16	CZ	ARG	1	10.918	28.582	10.107	0.00	0.00	
ATOM	17	NH1	ARG	1	11.127	28.886	8.923	0.00	0.00	
ATOM	18	1HH1	ARG	1	10.385	28.964	8.326	0.00	0.00	
ATOM	19	2HH1	ARG	1	12.051	28.986	8.618	0.00	0.00	
ATOM	20	NH2	ARG	1	11.942	28.475	10.819	0.00	0.00	
ATOM	21	1HH2	ARG	1	11.834	28.202	11.730	0.00	0.00	
ATOM	22	2HH2	ARG	1	12.831	28.540	10.418	0.00	0.00	
ATOM	23	C	ARG	1	5.360	29.718	13.641	0.00	0.00	
ATOM	24	O	ARG	1	5.861	30.810	13.526	0.00	0.00	
ATOM	25	N	PRO	2	4.475	29.486	14.611	0.00	0.00	
ATOM	26	CD	PRO	2	3.661	28.325	14.750	0.00	0.00	
ATOM	27	HD2	PRO	2	4.197	27.589	15.262	0.00	0.00	
ATOM	28	HD3	PRO	2	3.344	27.961	13.817	0.00	0.00	
ATOM	29	CG	PRO	2	2.474	28.721	15.568	0.00	0.00	
ATOM	30	HG2	PRO	2	2.108	27.917	16.138	0.00	0.00	
ATOM	31	HG3	PRO	2	1.727	29.102	14.946	0.00	0.00	
ATOM	32	CB	PRO	2	3.014	29.807	16.434	0.00	0.00	
ATOM	33	HB2	PRO	2	2.247	30.455	16.764	0.00	0.00	
ATOM	34	HB3	PRO	2	3.502	29.382	17.265	0.00	0.00	
ATOM	35	CA	PRO	2	4.013	30.500	15.544	0.00	0.00	
ATOM	36	HA	PRO	2	3.505	31.243	14.979	0.00	0.00	
ATOM	37	C	PRO	2	5.091	31.186	16.350	0.00	0.00	
ATOM	38	O	PRO	2	4.901	32.293	16.793	0.00	0.00	
ATOM	39	N	GLU	3	6.246	30.580	16.513	0.00	0.00	
ATOM	40	H	GLU	3	6.330	29.657	16.181	0.00	0.00	
ATOM	41	CA	GLU	3	7.404	31.157	17.159	0.00	0.00	
ATOM	42	HA	GLU	3	7.088	31.526	18.109	0.00	0.00	
ATOM	43	CB	GLU	3	8.450	30.103	17.410	0.00	0.00	
ATOM	44	HB2	GLU	3	9.260	30.567	17.907	0.00	0.00	
ATOM	45	HB3	GLU	3	8.059	29.381	18.077	0.00	0.00	
ATOM	46	CG	GLU	3	9.003	29.395	16.198	0.00	0.00	
ATOM	47	HG2	GLU	3	8.838	29.874	15.399	0.00	0.00	
ATOM	48	HG3	GLU	3	9.943	29.348	16.284	0.00	0.00	
ATOM	49	CD	GLU	3	8.582	28.096	15.961	0.00	0.00	
ATOM	50	OE1	GLU	3	8.740	27.409	15.676	0.00	0.00	
ATOM	51	OE2	GLU	3	8.100	27.740	16.039	0.00	0.00	
ATOM	52	C	GLU	3	8.019	32.335	16.428	0.00	0.00	
ATOM	53	O	GLU	3	8.790	33.046	17.016	0.00	0.00	
ATOM	54	N	ILE	4	7.685	32.571	15.176	0.00	0.00	
ATOM	55	H	ILE	4	7.076	31.938	14.737	0.00	0.00	
ATOM	56	CA	ILE	4	8.115	33.730	14.411	0.00	0.00	
ATOM	57	HA	ILE	4	9.121	33.959	14.674	0.00	0.00	
ATOM	58	CB	ILE	4	8.103	33.389	12.930	0.00	0.00	
ATOM	59	HB	ILE	4	7.434	32.874	12.810	0.00	0.00	
ATOM	60	CG2	ILE	4	7.964	34.325	12.035	0.00	0.00	
ATOM	61	1HG2	ILE	4	7.407	35.029	12.117	0.00	0.00	
ATOM	62	2HG2	ILE	4	8.629	34.545	11.924	0.00	0.00	
ATOM	63	3HG2	ILE	4	7.722	34.072	11.390	0.00	0.00	
ATOM	64	CG1	ILE	4	9.112	32.747	12.472	0.00	0.00	
ATOM	65	2HG1	ILE	4	9.283	32.746	12.762	0.00	0.00	
ATOM	66	3HG1	ILE	4	9.103	32.370	12.418	0.00	0.00	
ATOM	67	CD1	ILE	4	9.928	32.547	11.692	0.00	0.00	

ATOM	68	1HD1	ILE	4	10.202	32.545	11.580	0.00	0.00
ATOM	69	2HD1	ILE	4	10.091	32.363	11.541	0.00	0.00
ATOM	70	3HD1	ILE	4	10.086	32.591	11.385	0.00	0.00
ATOM	71	C	ILE	4	7.307	34.966	14.748	0.00	0.00
ATOM	72	O	ILE	4	7.787	36.065	14.591	0.00	0.00
ATOM	73	N	TRP	5	6.107	34.820	15.283	0.00	0.00
ATOM	74	H	TRP	5	5.784	33.900	15.438	0.00	0.00
ATOM	75	CA	TRP	5	5.201	35.899	15.646	0.00	0.00
ATOM	76	HA	TRP	5	5.303	36.671	14.918	0.00	0.00
ATOM	77	CB	TRP	5	3.768	35.414	15.559	0.00	0.00
ATOM	78	HB2	TRP	5	3.596	34.712	16.327	0.00	0.00
ATOM	79	HB3	TRP	5	3.112	36.231	15.739	0.00	0.00
ATOM	80	CG	TRP	5	3.347	34.790	14.300	0.00	0.00
ATOM	81	CD1	TRP	5	3.740	35.066	13.145	0.00	0.00
ATOM	82	HD1	TRP	5	4.408	35.779	12.977	0.00	0.00
ATOM	83	NE1	TRP	5	3.171	34.292	12.218	0.00	0.00
ATOM	84	HE1	TRP	5	3.341	34.327	11.304	0.00	0.00
ATOM	85	CE2	TRP	5	2.368	33.469	12.729	0.00	0.00
ATOM	86	CZ2	TRP	5	1.587	32.524	12.197	0.00	0.00
ATOM	87	HZ2	TRP	5	1.568	32.319	11.200	0.00	0.00
ATOM	88	CH2	TRP	5	0.845	31.856	12.984	0.00	0.00
ATOM	89	HH2	TRP	5	0.242	31.128	12.591	0.00	0.00
ATOM	90	CZ3	TRP	5	0.889	32.135	14.284	0.00	0.00
ATOM	91	HZ3	TRP	5	0.317	31.628	14.887	0.00	0.00
ATOM	92	CE3	TRP	5	1.678	33.086	14.813	0.00	0.00
ATOM	93	HE3	TRP	5	1.708	33.295	15.813	0.00	0.00
ATOM	94	CD2	TRP	5	2.447	33.776	14.051	0.00	0.00
ATOM	95	C	TRP	5	5.537	36.554	16.984	0.00	0.00
ATOM	96	O	TRP	5	4.697	36.757	17.819	0.00	0.00
ATOM	97	N	ILE	6	6.789	36.859	17.193	0.00	0.00
ATOM	98	H	ILE	6	7.403	36.601	16.472	0.00	0.00
ATOM	99	CA	ILE	6	7.357	37.506	18.375	0.00	0.00
ATOM	100	HA	ILE	6	6.552	37.761	19.039	0.00	0.00
ATOM	101	CB	ILE	6	8.263	36.508	19.103	0.00	0.00
ATOM	102	HB	ILE	6	7.750	35.571	19.115	0.00	0.00
ATOM	103	CG2	ILE	6	9.565	36.286	18.363	0.00	0.00
ATOM	104	1HG2	ILE	6	9.832	36.502	17.981	0.00	0.00
ATOM	105	2HG2	ILE	6	10.067	36.262	18.482	0.00	0.00
ATOM	106	3HG2	ILE	6	9.752	35.905	18.097	0.00	0.00
ATOM	107	CG1	ILE	6	8.528	36.886	20.551	0.00	0.00
ATOM	108	2HG1	ILE	6	9.189	37.243	20.718	0.00	0.00
ATOM	109	3HG1	ILE	6	8.033	37.368	20.850	0.00	0.00
ATOM	110	CD1	ILE	6	8.566	36.127	21.420	0.00	0.00
ATOM	111	1HD1	ILE	6	8.703	35.926	21.530	0.00	0.00
ATOM	112	2HD1	ILE	6	8.632	36.084	21.714	0.00	0.00
ATOM	113	3HD1	ILE	6	8.386	35.834	21.654	0.00	0.00
ATOM	114	C	ILE	6	8.056	38.827	18.052	0.00	0.00
ATOM	115	O	ILE	6	8.405	39.574	18.941	0.00	0.00
ATOM	116	N	ALA	7	8.249	39.161	16.784	0.00	0.00
ATOM	117	H	ALA	7	7.887	38.568	16.085	0.00	0.00
ATOM	118	CA	ALA	7	9.004	40.332	16.371	0.00	0.00
ATOM	119	HA	ALA	7	9.970	40.275	16.831	0.00	0.00
ATOM	120	CB	ALA	7	9.226	40.266	14.883	0.00	0.00
ATOM	121	HB1	ALA	7	8.964	40.276	14.489	0.00	0.00
ATOM	122	HB2	ALA	7	9.456	40.525	14.549	0.00	0.00
ATOM	123	HB3	ALA	7	9.426	39.968	14.550	0.00	0.00
ATOM	124	C	ALA	7	8.387	41.671	16.794	0.00	0.00
ATOM	125	O	ALA	7	9.104	42.643	16.946	0.00	0.00
ATOM	126	N	GLN	8	7.084	41.724	17.059	0.00	0.00
ATOM	127	H	GLN	8	6.545	40.903	16.901	0.00	0.00
ATOM	128	CA	GLN	8	6.416	42.893	17.621	0.00	0.00
ATOM	129	HA	GLN	8	6.668	43.735	16.997	0.00	0.00
ATOM	130	CB	GLN	8	4.893	42.738	17.553	0.00	0.00
ATOM	131	HB2	GLN	8	4.472	43.697	17.761	0.00	0.00
ATOM	132	HB3	GLN	8	4.604	42.484	16.552	0.00	0.00
ATOM	133	CG	GLN	8	4.234	41.752	18.510	0.00	0.00
ATOM	134	HG2	GLN	8	4.540	41.965	19.502	0.00	0.00
ATOM	135	HG3	GLN	8	3.180	41.905	18.485	0.00	0.00
ATOM	136	CD	GLN	8	4.477	40.310	18.224	0.00	0.00
ATOM	137	OE1	GLN	8	5.006	39.917	17.495	0.00	0.00
ATOM	138	NE2	GLN	8	4.105	39.460	18.786	0.00	0.00
ATOM	139	1HE2	GLN	8	4.245	38.510	18.593	0.00	0.00
ATOM	140	2HE2	GLN	8	3.653	39.746	19.385	0.00	0.00
ATOM	141	C	GLN	8	6.911	43.246	19.027	0.00	0.00
ATOM	142	O	GLN	8	6.983	44.413	19.361	0.00	0.00
ATOM	143	N	GLU	9	7.327	42.274	19.831	0.00	0.00
ATOM	144	H	GLU	9	7.284	41.338	19.505	0.00	0.00
ATOM	145	CA	GLU	9	7.952	42.516	21.133	0.00	0.00
ATOM	146	HA	GLU	9	7.397	43.289	21.642	0.00	0.00
ATOM	147	CB	GLU	9	7.886	41.244	21.974	0.00	0.00
ATOM	148	HB2	GLU	9	6.891	40.859	21.945	0.00	0.00
ATOM	149	HB3	GLU	9	8.532	40.519	21.532	0.00	0.00
ATOM	150	CG	GLU	9	8.304	41.411	23.424	0.00	0.00
ATOM	151	HG2	GLU	9	8.377	40.448	23.869	0.00	0.00
ATOM	152	HG3	GLU	9	9.263	41.841	23.470	0.00	0.00
ATOM	153	CD	GLU	9	7.352	42.216	24.244	0.00	0.00
ATOM	154	OE1	GLU	9	6.657	42.593	24.196	0.00	0.00
ATOM	155	OE2	GLU	9	7.277	42.469	24.983	0.00	0.00
ATOM	156	C	GLU	9	9.387	43.014	20.977	0.00	0.00
ATOM	157	O	GLU	9	9.795	43.940	21.655	0.00	0.00
ATOM	158	N	LEU	10	10.133	42.473	20.014	0.00	0.00
ATOM	159	H	LEU	10	9.733	41.728	19.495	0.00	0.00
ATOM	160	CA	LEU	10	11.493	42.911	19.684	0.00	0.00
ATOM	161	HA	LEU	10	12.071	42.891	20.597	0.00	0.00
ATOM	162	CB	LEU	10	12.092	41.897	18.700	0.00	0.00
ATOM	163	HB2	LEU	10	11.939	40.910	19.086	0.00	0.00
ATOM	164	HB3	LEU	10	11.550	41.961	17.781	0.00	0.00
ATOM	165	CG	LEU	10	13.574	42.058	18.375	0.00	0.00
ATOM	166	HG	LEU	10	13.726	43.020	17.954	0.00	0.00
ATOM	167	CD1	LEU	10	14.469	41.929	19.566	0.00	0.00
ATOM	168	1HD1	LEU	10	14.797	42.197	19.799	0.00	0.00
ATOM	169	2HD1	LEU	10	14.440	41.857	20.032	0.00	0.00
ATOM	170	3HD1	LEU	10	14.848	41.661	19.722	0.00	0.00
ATOM	171	CD2	LEU	10	13.999	41.018	17.362	0.00	0.00
ATOM	172	1HD2	LEU	10	14.473	40.881	17.159	0.00	0.00

ATOM	173	ZHD2	LEU	10	13.961	40.483	17.336	0.00	0.00
ATOM	174	3HD2	LEU	10	13.882	40.933	16.847	0.00	0.00
ATOM	175	C	LEU	10	11.520	44.361	19.166	0.00	0.00
ATOM	176	O	LEU	10	12.393	45.127	19.536	0.00	0.00
ATOM	177	N	ARG	11	10.510	44.771	18.391	0.00	0.00
ATOM	178	H	ARG	11	9.862	44.078	18.087	0.00	0.00
ATOM	179	CA	ARG	11	10.269	46.179	18.039	0.00	0.00
ATOM	180	HA	ARG	11	11.183	46.599	17.641	0.00	0.00
ATOM	181	CB	ARG	11	9.167	46.315	16.983	0.00	0.00
ATOM	182	HB2	ARG	11	8.296	45.772	17.302	0.00	0.00
ATOM	183	HB3	ARG	11	8.898	47.354	16.907	0.00	0.00
ATOM	184	CG	ARG	11	9.569	45.828	15.595	0.00	0.00
ATOM	185	HG2	ARG	11	10.506	46.279	15.340	0.00	0.00
ATOM	186	HG3	ARG	11	9.696	44.765	15.598	0.00	0.00
ATOM	187	CD	ARG	11	8.581	46.206	14.502	0.00	0.00
ATOM	188	HD2	ARG	11	8.498	47.273	14.473	0.00	0.00
ATOM	189	HD3	ARG	11	8.965	45.897	13.546	0.00	0.00
ATOM	190	NE	ARG	11	7.244	45.661	14.712	0.00	0.00
ATOM	191	HE	ARG	11	6.635	46.199	15.262	0.00	0.00
ATOM	192	CZ	ARG	11	6.692	44.628	14.159	0.00	0.00
ATOM	193	NH1	ARG	11	7.324	43.825	13.408	0.00	0.00
ATOM	194	1HH1	ARG	11	8.274	43.981	13.201	0.00	0.00
ATOM	195	2HH1	ARG	11	6.831	43.099	12.971	0.00	0.00
ATOM	196	NH2	ARG	11	5.457	44.371	14.358	0.00	0.00
ATOM	197	1HH2	ARG	11	4.908	45.002	14.864	0.00	0.00
ATOM	198	2HH2	ARG	11	5.040	43.604	13.926	0.00	0.00
ATOM	199	C	ARG	11	9.926	47.026	19.259	0.00	0.00
ATOM	200	O	ARG	11	10.512	48.079	19.423	0.00	0.00
ATOM	201	N	ARG	12	9.037	46.562	20.132	0.00	0.00
ATOM	202	H	ARG	12	8.621	45.686	19.923	0.00	0.00
ATOM	203	CA	ARG	12	8.558	47.300	21.313	0.00	0.00
ATOM	204	HA	ARG	12	8.159	48.246	20.976	0.00	0.00
ATOM	205	CB	ARG	12	7.435	46.519	21.999	0.00	0.00
ATOM	206	HB2	ARG	12	6.729	46.196	21.264	0.00	0.00
ATOM	207	HB3	ARG	12	7.839	45.646	22.467	0.00	0.00
ATOM	208	CG	ARG	12	6.696	47.356	23.025	0.00	0.00
ATOM	209	HG2	ARG	12	7.391	47.838	23.665	0.00	0.00
ATOM	210	HG3	ARG	12	6.148	48.106	22.517	0.00	0.00
ATOM	211	CD	ARG	12	5.728	46.561	23.873	0.00	0.00
ATOM	212	HD2	ARG	12	5.136	47.228	24.457	0.00	0.00
ATOM	213	HD3	ARG	12	5.070	46.025	23.240	0.00	0.00
ATOM	214	NE	ARG	12	6.399	45.624	24.736	0.00	0.00
ATOM	215	HE	ARG	12	6.440	44.692	24.465	0.00	0.00
ATOM	216	CZ	ARG	12	6.982	45.862	25.818	0.00	0.00
ATOM	217	NH1	ARG	12	7.013	46.998	26.315	0.00	0.00
ATOM	218	1HH1	ARG	12	6.555	47.748	25.917	0.00	0.00
ATOM	219	2HH1	ARG	12	7.491	47.113	27.123	0.00	0.00
ATOM	220	NH2	ARG	12	7.569	44.933	26.423	0.00	0.00
ATOM	221	1HH2	ARG	12	7.566	44.042	26.066	0.00	0.00
ATOM	222	2HH2	ARG	12	8.022	45.109	27.232	0.00	0.00
ATOM	223	C	ARG	12	9.673	47.636	22.285	0.00	0.00
ATOM	224	O	ARG	12	9.752	48.774	22.714	0.00	0.00
ATOM	225	N	ILE	13	10.558	46.696	22.608	0.00	0.00
ATOM	226	H	ILE	13	10.418	45.775	22.251	0.00	0.00
ATOM	227	CA	ILE	13	11.692	46.953	23.506	0.00	0.00
ATOM	228	HA	ILE	13	11.314	47.504	24.355	0.00	0.00
ATOM	229	CB	ILE	13	12.298	45.660	24.080	0.00	0.00
ATOM	230	HB	ILE	13	13.072	45.982	24.757	0.00	0.00
ATOM	231	CG2	ILE	13	11.246	44.929	24.911	0.00	0.00
ATOM	232	1HG2	ILE	13	10.671	44.984	24.915	0.00	0.00
ATOM	233	2HG2	ILE	13	11.120	44.360	24.949	0.00	0.00
ATOM	234	3HG2	ILE	13	11.170	44.902	25.498	0.00	0.00
ATOM	235	CG1	ILE	13	12.952	44.748	23.038	0.00	0.00
ATOM	236	2HG1	ILE	13	12.247	44.384	22.398	0.00	0.00
ATOM	237	3HG1	ILE	13	13.622	45.278	22.479	0.00	0.00
ATOM	238	CD1	ILE	13	13.703	43.609	23.561	0.00	0.00
ATOM	239	1HD1	ILE	13	13.932	43.354	23.683	0.00	0.00
ATOM	240	2HD1	ILE	13	13.856	43.339	23.705	0.00	0.00
ATOM	241	3HD1	ILE	13	13.883	43.308	23.656	0.00	0.00
ATOM	242	C	ILE	13	12.748	47.861	22.875	0.00	0.00
ATOM	243	O	ILE	13	13.312	48.687	23.562	0.00	0.00
ATOM	244	N	GLY	14	12.958	47.778	21.566	0.00	0.00
ATOM	245	H	GLY	14	12.470	47.082	21.055	0.00	0.00
ATOM	246	CA	GLY	14	13.801	48.711	20.833	0.00	0.00
ATOM	247	HA2	GLY	14	14.781	48.720	21.272	0.00	0.00
ATOM	248	HA3	GLY	14	13.886	48.377	19.817	0.00	0.00
ATOM	249	C	GLY	14	13.251	50.131	20.815	0.00	0.00
ATOM	250	O	GLY	14	13.968	51.072	21.090	0.00	0.00
ATOM	251	N	ASP	15	11.957	50.295	20.579	0.00	0.00
ATOM	252	H	ASP	15	11.424	49.489	20.341	0.00	0.00
ATOM	253	CA	ASP	15	11.283	51.592	20.588	0.00	0.00
ATOM	254	HA	ASP	15	11.865	52.282	19.992	0.00	0.00
ATOM	255	CB	ASP	15	9.897	51.462	19.963	0.00	0.00
ATOM	256	HB2	ASP	15	9.396	50.669	20.392	0.00	0.00
ATOM	257	HB3	ASP	15	9.352	52.316	20.164	0.00	0.00
ATOM	258	CG	ASP	15	9.877	51.294	18.495	0.00	0.00
ATOM	259	OD1	ASP	15	10.707	51.611	17.781	0.00	0.00
ATOM	260	OD2	ASP	15	8.987	50.894	18.011	0.00	0.00
ATOM	261	C	ASP	15	11.176	52.195	21.995	0.00	0.00
ATOM	262	O	ASP	15	11.237	53.400	22.145	0.00	0.00
ATOM	263	N	GLU	16	11.063	51.386	23.042	0.00	0.00
ATOM	264	H	GLU	16	10.988	50.414	22.861	0.00	0.00
ATOM	265	CA	GLU	16	11.064	51.851	24.431	0.00	0.00
ATOM	266	HA	GLU	16	10.414	52.713	24.489	0.00	0.00
ATOM	267	CB	GLU	16	10.480	50.778	25.358	0.00	0.00
ATOM	268	HB2	GLU	16	9.573	50.406	24.936	0.00	0.00
ATOM	269	HB3	GLU	16	11.162	49.963	25.453	0.00	0.00
ATOM	270	CG	GLU	16	10.160	51.334	26.730	0.00	0.00
ATOM	271	HG2	GLU	16	11.051	51.678	27.185	0.00	0.00
ATOM	272	HG3	GLU	16	9.515	52.163	26.611	0.00	0.00
ATOM	273	CD	GLU	16	9.491	50.317	27.632	0.00	0.00
ATOM	274	OE1	GLU	16	10.147	49.654	28.389	0.00	0.00
ATOM	275	OE2	GLU	16	8.300	50.195	27.608	0.00	0.00
ATOM	276	C	GLU	16	12.458	52.304	24.872	0.00	0.00
ATOM	277	O	GLU	16	12.592	53.356	25.482	0.00	0.00

ATOM	278	N	PHE	17	13.509	51.585	24.495	0.00	0.00
ATOM	279	H	PHE	17	13.358	50.726	24.014	0.00	0.00
ATOM	280	CA	PHE	17	14.882	52.040	24.706	0.00	0.00
ATOM	281	HA	PHE	17	14.994	52.297	25.750	0.00	0.00
ATOM	282	CB	PHE	17	15.864	50.916	24.386	0.00	0.00
ATOM	283	HB2	PHE	17	15.575	50.033	24.916	0.00	0.00
ATOM	284	HB3	PHE	17	15.820	50.677	23.345	0.00	0.00
ATOM	285	CG	PHE	17	17.283	51.240	24.753	0.00	0.00
ATOM	286	CD1	PHE	17	17.731	51.051	26.035	0.00	0.00
ATOM	287	HD1	PHE	17	17.081	50.659	26.756	0.00	0.00
ATOM	288	CE1	PHE	17	19.030	51.371	26.386	0.00	0.00
ATOM	289	HE1	PHE	17	19.371	51.208	27.364	0.00	0.00
ATOM	290	CZ	PHE	17	19.889	51.884	25.461	0.00	0.00
ATOM	291	HZ	PHE	17	20.879	52.127	25.727	0.00	0.00
ATOM	292	CE2	PHE	17	19.449	52.083	24.182	0.00	0.00
ATOM	293	HE2	PHE	17	20.106	52.487	23.478	0.00	0.00
ATOM	294	CD2	PHE	17	18.149	51.758	23.828	0.00	0.00
ATOM	295	HD2	PHE	17	17.809	51.917	22.853	0.00	0.00
ATOM	296	C	PHE	17	15.192	53.305	23.910	0.00	0.00
ATOM	297	O	PHE	17	15.879	54.181	24.410	0.00	0.00
ATOM	298	N	ASN	18	14.644	53.463	22.709	0.00	0.00
ATOM	299	H	ASN	18	14.124	52.704	22.329	0.00	0.00
ATOM	300	CA	ASN	18	14.779	54.681	21.916	0.00	0.00
ATOM	301	HA	ASN	18	15.829	54.904	21.829	0.00	0.00
ATOM	302	CB	ASN	18	14.229	54.436	20.513	0.00	0.00
ATOM	303	HB2	ASN	18	14.570	53.497	20.136	0.00	0.00
ATOM	304	HB3	ASN	18	13.164	54.395	20.539	0.00	0.00
ATOM	305	CG	ASN	18	14.665	55.490	19.537	0.00	0.00
ATOM	306	OD1	ASN	18	15.789	55.626	19.221	0.00	0.00
ATOM	307	ND2	ASN	18	13.814	56.268	19.058	0.00	0.00
ATOM	308	1HD2	ASN	18	14.086	56.971	18.427	0.00	0.00
ATOM	309	2HD2	ASN	18	12.895	56.146	19.303	0.00	0.00
ATOM	310	C	ASN	18	14.109	55.882	22.582	0.00	0.00
ATOM	311	O	ASN	18	14.649	56.964	22.565	0.00	0.00
ATOM	312	N	ALA	19	12.985	55.697	23.243	0.00	0.00
ATOM	313	H	ALA	19	12.586	54.797	23.221	0.00	0.00
ATOM	314	CA	ALA	19	12.294	56.735	23.989	0.00	0.00
ATOM	315	HA	ALA	19	12.199	57.598	23.367	0.00	0.00
ATOM	316	CB	ALA	19	10.900	56.269	24.327	0.00	0.00
ATOM	317	HB1	ALA	19	10.810	55.724	24.790	0.00	0.00
ATOM	318	HB2	ALA	19	10.413	56.743	24.627	0.00	0.00
ATOM	319	HB3	ALA	19	10.454	56.025	23.796	0.00	0.00
ATOM	320	C	ALA	19	13.056	57.165	25.230	0.00	0.00
ATOM	321	O	ALA	19	13.119	58.313	25.535	0.00	0.00
ATOM	322	N	TYR	20	13.710	56.273	25.909	0.00	0.00
ATOM	323	H	TYR	20	13.593	55.344	25.643	0.00	0.00
ATOM	324	CA	TYR	20	14.588	56.576	27.026	0.00	0.00
ATOM	325	HA	TYR	20	14.127	57.330	27.611	0.00	0.00
ATOM	326	CB	TYR	20	14.727	55.363	27.900	0.00	0.00
ATOM	327	HB2	TYR	20	14.880	54.508	27.309	0.00	0.00
ATOM	328	HB3	TYR	20	15.590	55.500	28.487	0.00	0.00
ATOM	329	CG	TYR	20	13.589	55.091	28.808	0.00	0.00
ATOM	330	CD1	TYR	20	12.737	54.081	28.613	0.00	0.00
ATOM	331	HD1	TYR	20	12.887	53.501	27.822	0.00	0.00
ATOM	332	CE1	TYR	20	11.697	53.820	29.461	0.00	0.00
ATOM	333	HE1	TYR	20	11.054	53.048	29.312	0.00	0.00
ATOM	334	CZ	TYR	20	11.506	54.561	30.511	0.00	0.00
ATOM	335	OH	TYR	20	10.513	54.305	31.334	0.00	0.00
ATOM	336	HH	TYR	20	10.020	53.594	31.098	0.00	0.00
ATOM	337	CE2	TYR	20	12.357	55.576	30.711	0.00	0.00
ATOM	338	HE2	TYR	20	12.210	56.137	31.513	0.00	0.00
ATOM	339	CD2	TYR	20	13.396	55.837	29.868	0.00	0.00
ATOM	340	HD2	TYR	20	14.049	56.601	30.032	0.00	0.00
ATOM	341	C	TYR	20	15.945	57.150	26.626	0.00	0.00
ATOM	342	O	TYR	20	16.563	57.795	27.419	0.00	0.00
ATOM	343	N	TYR	21	16.386	56.988	25.397	0.00	0.00
ATOM	344	H	TYR	21	15.858	56.434	24.792	0.00	0.00
ATOM	345	CA	TYR	21	17.600	57.565	24.892	0.00	0.00
ATOM	346	HA	TYR	21	18.348	57.438	25.624	0.00	0.00
ATOM	347	CB	TYR	21	18.045	56.837	23.645	0.00	0.00
ATOM	348	HB2	TYR	21	17.981	55.844	23.766	0.00	0.00
ATOM	349	HB3	TYR	21	17.445	57.050	22.882	0.00	0.00
ATOM	350	CG	TYR	21	19.361	57.090	23.223	0.00	0.00
ATOM	351	CD1	TYR	21	20.330	56.477	23.737	0.00	0.00
ATOM	352	HD1	TYR	21	20.136	55.836	24.429	0.00	0.00
ATOM	353	CE1	TYR	21	21.544	56.710	23.356	0.00	0.00
ATOM	354	HE1	TYR	21	22.287	56.247	23.753	0.00	0.00
ATOM	355	CZ	TYR	21	21.797	57.551	22.447	0.00	0.00
ATOM	356	OH	TYR	21	22.962	57.753	22.066	0.00	0.00
ATOM	357	HH	TYR	21	23.347	58.274	21.723	0.00	0.00
ATOM	358	CE2	TYR	21	20.832	58.166	21.935	0.00	0.00
ATOM	359	HE2	TYR	21	21.031	58.812	21.253	0.00	0.00
ATOM	360	CD2	TYR	21	19.618	57.938	22.324	0.00	0.00
ATOM	361	HD2	TYR	21	18.887	58.409	21.925	0.00	0.00
ATOM	362	C	TYR	21	17.470	59.034	24.671	0.00	0.00
ATOM	363	O	TYR	21	18.356	59.759	24.968	0.00	0.00
ATOM	364	N	ALA	22	16.344	59.495	24.240	0.00	0.00
ATOM	365	H	ALA	22	15.659	58.856	24.004	0.00	0.00
ATOM	366	CA	ALA	22	16.056	60.877	24.079	0.00	0.00
ATOM	367	HA	ALA	22	16.854	61.320	23.562	0.00	0.00
ATOM	368	CB	ALA	22	14.865	61.010	23.225	0.00	0.00
ATOM	369	HB1	ALA	22	14.822	61.016	22.612	0.00	0.00
ATOM	370	HB2	ALA	22	14.415	60.653	23.213	0.00	0.00
ATOM	371	HB3	ALA	22	14.492	61.466	23.216	0.00	0.00
ATOM	372	C	ALA	22	15.893	61.608	25.386	0.00	0.00
ATOM	373	O	ALA	22	16.064	62.764	25.447	0.00	0.00
ATOM	374	N	ARG	23	15.601	60.936	26.455	0.00	0.00
ATOM	375	H	ARG	23	15.423	60.005	26.311	0.00	0.00
ATOM	376	CA	ARG	23	15.481	61.454	27.795	0.00	0.00
ATOM	377	HA	ARG	23	15.147	62.443	27.743	0.00	0.00
ATOM	378	CB	ARG	23	14.478	60.661	28.555	0.00	0.00
ATOM	379	HB2	ARG	23	14.722	59.671	28.497	0.00	0.00
ATOM	380	HB3	ARG	23	14.511	60.931	29.557	0.00	0.00
ATOM	381	CG	ARG	23	13.110	60.848	28.083	0.00	0.00
ATOM	382	HG2	ARG	23	12.807	61.702	28.177	0.00	0.00

ATOM	383	HG3	ARG	23	13.016	60.680	27.205	0.00	0.00
ATOM	384	CD	ARG	23	12.267	60.103	28.676	0.00	0.00
ATOM	385	HD2	ARG	23	11.958	59.857	28.509	0.00	0.00
ATOM	386	HD3	ARG	23	12.479	59.761	28.841	0.00	0.00
ATOM	387	NE	ARG	23	11.577	60.165	29.222	0.00	0.00
ATOM	388	HE	ARG	23	11.669	60.592	29.204	0.00	0.00
ATOM	389	CZ	ARG	23	10.824	59.716	29.733	0.00	0.00
ATOM	390	NH1	ARG	23	10.580	59.145	29.836	0.00	0.00
ATOM	391	1HH1	ARG	23	10.949	59.037	29.532	0.00	0.00
ATOM	392	2HH1	ARG	23	10.010	58.827	30.237	0.00	0.00
ATOM	393	NH2	ARG	23	10.285	59.835	30.168	0.00	0.00
ATOM	394	1HH2	ARG	23	10.442	60.265	30.113	0.00	0.00
ATOM	395	2HH2	ARG	23	9.725	59.498	30.556	0.00	0.00
ATOM	396	C	ARG	23	16.767	61.526	28.536	0.00	0.00
ATOM	397	O	ARG	23	16.813	61.934	29.582	0.00	0.00
ATOM	398	N	ARG	24	17.812	61.133	28.010	0.00	0.00
ATOM	399	H	ARG	24	17.689	60.832	27.147	0.00	0.00
ATOM	400	CA	ARG	24	19.122	61.127	28.582	0.00	0.00
ATOM	401	HA	ARG	24	19.059	61.344	29.547	0.00	0.00
ATOM	402	CB	ARG	24	19.741	59.865	28.485	0.00	0.00
ATOM	403	HB2	ARG	24	20.726	59.915	28.831	0.00	0.00
ATOM	404	HB3	ARG	24	19.759	59.598	27.534	0.00	0.00
ATOM	405	CG	ARG	24	19.041	58.897	29.231	0.00	0.00
ATOM	406	HG2	ARG	24	18.060	58.798	28.903	0.00	0.00
ATOM	407	HG3	ARG	24	19.020	59.181	30.163	0.00	0.00
ATOM	408	CD	ARG	24	19.694	57.682	29.180	0.00	0.00
ATOM	409	HD2	ARG	24	19.877	57.520	29.768	0.00	0.00
ATOM	410	HD3	ARG	24	20.213	57.828	28.838	0.00	0.00
ATOM	411	NE	ARG	24	19.376	56.555	28.807	0.00	0.00
ATOM	412	HE	ARG	24	18.755	56.636	28.312	0.00	0.00
ATOM	413	CZ	ARG	24	19.837	55.433	29.071	0.00	0.00
ATOM	414	NH1	ARG	24	20.650	55.157	29.712	0.00	0.00
ATOM	415	1HH1	ARG	24	20.971	55.810	30.039	0.00	0.00
ATOM	416	2HH1	ARG	24	20.970	54.298	29.866	0.00	0.00
ATOM	417	NH2	ARG	24	19.479	54.527	28.701	0.00	0.00
ATOM	418	1HH2	ARG	24	18.871	54.655	28.175	0.00	0.00
ATOM	419	2HH2	ARG	24	19.829	53.687	28.959	0.00	0.00
ATOM	420	C	ARG	24	19.987	62.097	28.037	0.00	0.00
ATOM	421	O	ARG	24	20.172	62.536	27.362	0.00	0.00
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ATOM	422	N	SER	25	32.304	56.891	7.008	0.00	0.00
ATOM	423	H	SER	25	32.921	56.749	7.078	0.00	0.00
ATOM	424	CA	SER	25	31.540	57.668	6.964	0.00	0.00
ATOM	425	HA	SER	25	30.953	57.375	7.459	0.00	0.00
ATOM	426	CB	SER	25	32.009	58.640	7.609	0.00	0.00
ATOM	427	HB2	SER	25	31.842	59.186	7.340	0.00	0.00
ATOM	428	HB3	SER	25	31.853	58.724	8.218	0.00	0.00
ATOM	429	OG	SER	25	32.843	58.737	7.786	0.00	0.00
ATOM	430	HG	SER	25	33.131	59.029	7.981	0.00	0.00
ATOM	431	C	SER	25	31.024	57.924	5.659	0.00	0.00
ATOM	432	O	SER	25	30.164	58.468	5.554	0.00	0.00
ATOM	433	N	ALA	26	31.528	57.530	4.659	0.00	0.00
ATOM	434	H	ALA	26	32.247	57.099	4.820	0.00	0.00
ATOM	435	CA	ALA	26	31.165	57.786	3.359	0.00	0.00
ATOM	436	HA	ALA	26	30.427	58.452	3.381	0.00	0.00
ATOM	437	CB	ALA	26	32.259	58.419	2.750	0.00	0.00
ATOM	438	HB1	ALA	26	32.443	58.578	2.556	0.00	0.00
ATOM	439	HB2	ALA	26	32.555	58.642	2.668	0.00	0.00
ATOM	440	HB3	ALA	26	32.556	58.504	2.586	0.00	0.00
ATOM	441	C	ALA	26	30.673	56.604	2.551	0.00	0.00
ATOM	442	O	ALA	26	29.973	56.739	1.679	0.00	0.00
ATOM	443	N	SER	27	31.014	55.454	2.827	0.00	0.00
ATOM	444	H	SER	27	31.600	55.410	3.548	0.00	0.00
ATOM	445	CA	SER	27	30.588	54.261	2.150	0.00	0.00
ATOM	446	HA	SER	27	29.794	54.506	1.484	0.00	0.00
ATOM	447	CB	SER	27	31.705	53.719	1.324	0.00	0.00
ATOM	448	HB2	SER	27	32.130	54.114	0.999	0.00	0.00
ATOM	449	HB3	SER	27	32.229	53.330	1.551	0.00	0.00
ATOM	450	OG	SER	27	31.551	53.216	0.686	0.00	0.00
ATOM	451	HG	SER	27	31.793	53.130	0.170	0.00	0.00
ATOM	452	C	SER	27	30.092	53.199	3.111	0.00	0.00
ATOM	453	O	SER	27	30.796	52.803	4.010	0.00	0.00
ATOM	454	N	GLU	28	28.888	52.694	2.898	0.00	0.00
ATOM	455	H	GLU	28	28.363	53.067	2.151	0.00	0.00
ATOM	456	CA	GLU	28	28.280	51.635	3.703	0.00	0.00
ATOM	457	HA	GLU	28	28.246	51.973	4.727	0.00	0.00
ATOM	458	CB	GLU	28	26.837	51.421	3.248	0.00	0.00
ATOM	459	HB2	GLU	28	26.363	50.749	3.933	0.00	0.00
ATOM	460	HB3	GLU	28	26.320	52.355	3.314	0.00	0.00
ATOM	461	CG	GLU	28	26.666	50.877	1.840	0.00	0.00
ATOM	462	HG2	GLU	28	27.278	51.431	1.173	0.00	0.00
ATOM	463	HG3	GLU	28	27.007	49.874	1.813	0.00	0.00
ATOM	464	CD	GLU	28	25.235	50.932	1.371	0.00	0.00
ATOM	465	OE1	GLU	28	24.912	51.759	0.595	0.00	0.00
ATOM	466	OE2	GLU	28	24.405	50.161	1.770	0.00	0.00
ATOM	467	C	GLU	28	29.075	50.329	3.711	0.00	0.00
ATOM	468	O	GLU	28	29.134	49.659	4.722	0.00	0.00
ATOM	469	N	GLU	29	29.757	49.998	2.625	0.00	0.00
ATOM	470	H	GLU	29	29.708	50.611	1.848	0.00	0.00
ATOM	471	CA	GLU	29	30.594	48.806	2.519	0.00	0.00
ATOM	472	HA	GLU	29	30.040	47.957	2.879	0.00	0.00
ATOM	473	CB	GLU	29	30.969	48.557	1.069	0.00	0.00
ATOM	474	HB2	GLU	29	31.224	49.307	0.660	0.00	0.00
ATOM	475	HB3	GLU	29	31.673	47.995	0.982	0.00	0.00
ATOM	476	CG	GLU	29	30.071	48.041	0.302	0.00	0.00
ATOM	477	HG2	GLU	29	29.824	47.304	0.699	0.00	0.00
ATOM	478	HG3	GLU	29	29.375	48.582	0.386	0.00	0.00
ATOM	479	CD	GLU	29	30.442	47.787	-1.107	0.00	0.00
ATOM	480	OE1	GLU	29	30.579	47.585	-1.664	0.00	0.00
ATOM	481	OE2	GLU	29	30.590	47.782	-1.680	0.00	0.00
ATOM	482	C	GLU	29	31.855	48.898	3.381	0.00	0.00
ATOM	483	O	GLU	29	32.306	47.915	3.893	0.00	0.00
ATOM	484	N	GLN	30	32.387	50.082	3.596	0.00	0.00
ATOM	485	H	GLN	30	31.942	50.849	3.183	0.00	0.00

ATOM	486	CA	GLN	30	33.520	50.331	4.484	0.00	0.00
ATOM	487	HA	GLN	30	34.182	49.485	4.444	0.00	0.00
ATOM	488	CB	GLN	30	34.294	51.558	4.023	0.00	0.00
ATOM	489	HB2	GLN	30	33.649	52.397	4.039	0.00	0.00
ATOM	490	HB3	GLN	30	35.086	51.744	4.712	0.00	0.00
ATOM	491	CG	GLN	30	34.885	51.449	2.642	0.00	0.00
ATOM	492	HG2	GLN	30	34.127	51.325	1.939	0.00	0.00
ATOM	493	HG3	GLN	30	35.372	52.346	2.405	0.00	0.00
ATOM	494	CD	GLN	30	35.848	50.372	2.494	0.00	0.00
ATOM	495	OE1	GLN	30	36.078	49.708	2.644	0.00	0.00
ATOM	496	NE2	GLN	30	36.442	50.146	2.194	0.00	0.00
ATOM	497	1HE2	GLN	30	37.070	49.443	2.100	0.00	0.00
ATOM	498	2HE2	GLN	30	36.272	50.671	2.061	0.00	0.00
ATOM	499	C	GLN	30	33.090	50.450	5.941	0.00	0.00
ATOM	500	O	GLN	30	33.792	49.989	6.819	0.00	0.00
ATOM	501	N	VAL	31	31.899	50.981	6.211	0.00	0.00
ATOM	502	H	VAL	31	31.391	51.374	5.455	0.00	0.00
ATOM	503	CA	VAL	31	31.289	50.972	7.542	0.00	0.00
ATOM	504	HA	VAL	31	32.011	51.358	8.245	0.00	0.00
ATOM	505	CB	VAL	31	30.057	51.887	7.595	0.00	0.00
ATOM	506	HB	VAL	31	29.391	51.636	6.794	0.00	0.00
ATOM	507	CG1	VAL	31	29.290	51.780	8.889	0.00	0.00
ATOM	508	1HG1	VAL	31	29.133	51.384	9.205	0.00	0.00
ATOM	509	2HG1	VAL	31	29.349	51.975	9.384	0.00	0.00
ATOM	510	3HG1	VAL	31	28.800	51.915	9.016	0.00	0.00
ATOM	511	CG2	VAL	31	30.463	53.335	7.443	0.00	0.00
ATOM	512	1HG2	VAL	31	30.573	53.665	7.208	0.00	0.00
ATOM	513	2HG2	VAL	31	30.374	53.754	7.480	0.00	0.00
ATOM	514	3HG2	VAL	31	30.723	53.654	7.534	0.00	0.00
ATOM	515	C	VAL	31	30.976	49.554	8.000	0.00	0.00
ATOM	516	O	VAL	31	31.158	49.253	9.163	0.00	0.00
ATOM	517	N	ALA	32	30.589	48.643	7.116	0.00	0.00
ATOM	518	H	ALA	32	30.383	48.937	6.192	0.00	0.00
ATOM	519	CA	ALA	32	30.428	47.232	7.444	0.00	0.00
ATOM	520	HA	ALA	32	29.758	47.153	8.283	0.00	0.00
ATOM	521	CB	ALA	32	29.760	46.529	6.278	0.00	0.00
ATOM	522	HB1	ALA	32	29.872	46.555	5.705	0.00	0.00
ATOM	523	HB2	ALA	32	29.705	45.958	6.180	0.00	0.00
ATOM	524	HB3	ALA	32	29.215	46.558	6.111	0.00	0.00
ATOM	525	C	ALA	32	31.742	46.562	7.858	0.00	0.00
ATOM	526	O	ALA	32	31.729	45.749	8.741	0.00	0.00
ATOM	527	N	GLN	33	32.880	46.947	7.300	0.00	0.00
ATOM	528	H	GLN	33	32.835	47.620	6.586	0.00	0.00
ATOM	529	CA	GLN	33	34.196	46.465	7.724	0.00	0.00
ATOM	530	HA	GLN	33	34.136	45.395	7.848	0.00	0.00
ATOM	531	CB	GLN	33	35.255	46.766	6.663	0.00	0.00
ATOM	532	HB2	GLN	33	35.340	47.811	6.530	0.00	0.00
ATOM	533	HB3	GLN	33	36.192	46.423	7.015	0.00	0.00
ATOM	534	CG	GLN	33	35.032	46.154	5.307	0.00	0.00
ATOM	535	HG2	GLN	33	34.214	46.541	4.887	0.00	0.00
ATOM	536	HG3	GLN	33	35.813	46.372	4.685	0.00	0.00
ATOM	537	CD	GLN	33	34.892	44.739	5.317	0.00	0.00
ATOM	538	OE1	GLN	33	34.256	43.995	5.511	0.00	0.00
ATOM	539	NE2	GLN	33	35.461	44.322	5.115	0.00	0.00
ATOM	540	1HE2	GLN	33	35.980	44.919	4.971	0.00	0.00
ATOM	541	2HE2	GLN	33	35.366	43.406	5.135	0.00	0.00
ATOM	542	C	GLN	33	34.620	47.028	9.080	0.00	0.00
ATOM	543	O	GLN	33	35.170	46.311	9.885	0.00	0.00
ATOM	544	N	ASP	34	34.326	48.285	9.376	0.00	0.00
ATOM	545	H	ASP	34	33.927	48.845	8.666	0.00	0.00
ATOM	546	CA	ASP	34	34.554	48.880	10.698	0.00	0.00
ATOM	547	HA	ASP	34	35.569	48.708	11.008	0.00	0.00
ATOM	548	CB	ASP	34	34.305	50.384	10.660	0.00	0.00
ATOM	549	HB2	ASP	34	33.341	50.571	10.242	0.00	0.00
ATOM	550	HB3	ASP	34	34.294	50.755	11.667	0.00	0.00
ATOM	551	CG	ASP	34	35.331	51.178	9.900	0.00	0.00
ATOM	552	OD1	ASP	34	36.455	50.779	9.758	0.00	0.00
ATOM	553	OD2	ASP	34	35.013	52.238	9.458	0.00	0.00
ATOM	554	C	ASP	34	33.662	48.253	11.765	0.00	0.00
ATOM	555	O	ASP	34	34.097	48.020	12.878	0.00	0.00
ATOM	556	N	THR	35	32.425	47.915	11.416	0.00	0.00
ATOM	557	H	THR	35	32.137	48.137	10.489	0.00	0.00
ATOM	558	CA	THR	35	31.463	47.282	12.318	0.00	0.00
ATOM	559	HA	THR	35	31.380	47.903	13.198	0.00	0.00
ATOM	560	CB	THR	35	30.069	47.183	11.691	0.00	0.00
ATOM	561	HB	THR	35	30.086	46.466	10.886	0.00	0.00
ATOM	562	CG2	THR	35	28.997	46.789	12.684	0.00	0.00
ATOM	563	1HG2	THR	35	28.824	46.551	12.967	0.00	0.00
ATOM	564	2HG2	THR	35	28.765	46.844	13.012	0.00	0.00
ATOM	565	3HG2	THR	35	28.610	46.684	12.800	0.00	0.00
ATOM	566	OG1	THR	35	29.640	48.416	11.190	0.00	0.00
ATOM	567	HG1	THR	35	30.190	48.656	10.473	0.00	0.00
ATOM	568	C	THR	35	31.925	45.905	12.785	0.00	0.00
ATOM	569	O	THR	35	31.596	45.509	13.885	0.00	0.00
ATOM	570	N	GLU	36	32.741	45.188	12.019	0.00	0.00
ATOM	571	H	GLU	36	32.999	45.551	11.131	0.00	0.00
ATOM	572	CA	GLU	36	33.335	43.922	12.447	0.00	0.00
ATOM	573	HA	GLU	36	32.547	43.277	12.802	0.00	0.00
ATOM	574	CB	GLU	36	34.016	43.243	11.269	0.00	0.00
ATOM	575	HB2	GLU	36	33.849	43.560	10.557	0.00	0.00
ATOM	576	HB3	GLU	36	34.806	43.280	11.294	0.00	0.00
ATOM	577	CG	GLU	36	33.866	42.081	11.011	0.00	0.00
ATOM	578	HG2	GLU	36	33.936	41.801	11.754	0.00	0.00
ATOM	579	HG3	GLU	36	33.115	42.034	10.865	0.00	0.00
ATOM	580	CD	GLU	36	34.639	41.359	9.957	0.00	0.00
ATOM	581	OE1	GLU	36	35.482	41.202	9.924	0.00	0.00
ATOM	582	OE2	GLU	36	34.419	40.934	9.153	0.00	0.00
ATOM	583	C	GLU	36	34.319	44.101	13.607	0.00	0.00
ATOM	584	O	GLU	36	34.304	43.331	14.540	0.00	0.00
ATOM	585	N	GLU	37	35.134	45.145	13.589	0.00	0.00
ATOM	586	H	GLU	37	35.062	45.772	12.830	0.00	0.00
ATOM	587	CA	GLU	37	36.062	45.467	14.671	0.00	0.00
ATOM	588	HA	GLU	37	36.564	44.562	14.979	0.00	0.00
ATOM	589	CB	GLU	37	37.123	46.445	14.176	0.00	0.00
ATOM	590	HB2	GLU	37	37.013	46.799	13.635	0.00	0.00

ATOM	591	HB3	GLU	37	37.344	46.971	14.545	0.00	0.00
ATOM	592	CG	GLU	37	38.064	46.226	13.919	0.00	0.00
ATOM	593	HG2	GLU	37	38.202	45.945	14.332	0.00	0.00
ATOM	594	HG3	GLU	37	37.754	45.811	13.626	0.00	0.00
ATOM	595	CD	GLU	37	39.237	46.937	13.516	0.00	0.00
ATOM	596	OE1	GLU	37	40.164	47.026	14.171	0.00	0.00
ATOM	597	OE2	GLU	37	39.258	47.402	12.554	0.00	0.00
ATOM	598	C	GLU	37	35.342	46.015	15.909	0.00	0.00
ATOM	599	O	GLU	37	35.688	45.658	17.026	0.00	0.00
ATOM	600	N	VAL	38	34.292	46.808	15.717	0.00	0.00
ATOM	601	H	VAL	38	34.081	47.076	14.782	0.00	0.00
ATOM	602	CA	VAL	38	33.404	47.258	16.797	0.00	0.00
ATOM	603	HA	VAL	38	34.009	47.711	17.570	0.00	0.00
ATOM	604	CB	VAL	38	32.388	48.304	16.303	0.00	0.00
ATOM	605	HB	VAL	38	31.863	47.917	15.462	0.00	0.00
ATOM	606	CG1	VAL	38	31.358	48.688	17.336	0.00	0.00
ATOM	607	1HG1	VAL	38	31.175	48.490	17.740	0.00	0.00
ATOM	608	2HG1	VAL	38	31.295	49.061	17.651	0.00	0.00
ATOM	609	3HG1	VAL	38	30.846	48.801	17.360	0.00	0.00
ATOM	610	CG2	VAL	38	33.072	49.572	15.884	0.00	0.00
ATOM	611	1HG2	VAL	38	33.448	49.729	15.677	0.00	0.00
ATOM	612	2HG2	VAL	38	33.028	49.948	15.607	0.00	0.00
ATOM	613	3HG2	VAL	38	33.239	49.973	16.037	0.00	0.00
ATOM	614	C	VAL	38	32.694	46.071	17.443	0.00	0.00
ATOM	615	O	VAL	38	32.696	45.973	18.659	0.00	0.00
ATOM	616	N	PHE	39	32.133	45.144	16.670	0.00	0.00
ATOM	617	H	PHE	39	32.164	45.272	15.682	0.00	0.00
ATOM	618	CA	PHE	39	31.376	44.004	17.188	0.00	0.00
ATOM	619	HA	PHE	39	30.660	44.385	17.904	0.00	0.00
ATOM	620	CB	PHE	39	30.577	43.331	16.077	0.00	0.00
ATOM	621	HB2	PHE	39	30.012	44.088	15.565	0.00	0.00
ATOM	622	HB3	PHE	39	31.251	42.903	15.361	0.00	0.00
ATOM	623	CG	PHE	39	29.605	42.282	16.565	0.00	0.00
ATOM	624	CD1	PHE	39	28.394	42.632	17.088	0.00	0.00
ATOM	625	HD1	PHE	39	28.157	43.643	17.131	0.00	0.00
ATOM	626	CE1	PHE	39	27.504	41.660	17.544	0.00	0.00
ATOM	627	HE1	PHE	39	26.580	41.930	17.929	0.00	0.00
ATOM	628	CZ	PHE	39	27.827	40.336	17.486	0.00	0.00
ATOM	629	HZ	PHE	39	27.146	39.591	17.827	0.00	0.00
ATOM	630	CE2	PHE	39	29.029	39.985	16.970	0.00	0.00
ATOM	631	HE2	PHE	39	29.271	38.974	16.921	0.00	0.00
ATOM	632	CD2	PHE	39	29.917	40.958	16.519	0.00	0.00
ATOM	633	HD2	PHE	39	30.838	40.683	16.129	0.00	0.00
ATOM	634	C	PHE	39	32.257	43.002	17.941	0.00	0.00
ATOM	635	O	PHE	39	31.895	42.598	19.036	0.00	0.00
ATOM	636	N	ARG	40	33.442	42.657	17.424	0.00	0.00
ATOM	637	H	ARG	40	33.684	43.008	16.525	0.00	0.00
ATOM	638	CA	ARG	40	34.406	41.794	18.134	0.00	0.00
ATOM	639	HA	ARG	40	33.927	40.858	18.373	0.00	0.00
ATOM	640	CB	ARG	40	35.624	41.516	17.262	0.00	0.00
ATOM	641	HB2	ARG	40	35.980	42.429	16.848	0.00	0.00
ATOM	642	HB3	ARG	40	36.399	41.110	17.876	0.00	0.00
ATOM	643	CG	ARG	40	35.356	40.535	16.146	0.00	0.00
ATOM	644	HG2	ARG	40	35.076	39.617	16.558	0.00	0.00
ATOM	645	HG3	ARG	40	34.564	40.872	15.535	0.00	0.00
ATOM	646	CD	ARG	40	36.566	40.321	15.310	0.00	0.00
ATOM	647	HD2	ARG	40	36.997	40.804	15.368	0.00	0.00
ATOM	648	HD3	ARG	40	36.935	39.786	15.472	0.00	0.00
ATOM	649	NE	ARG	40	36.661	40.154	14.222	0.00	0.00
ATOM	650	HE	ARG	40	36.218	39.646	13.950	0.00	0.00
ATOM	651	CZ	ARG	40	37.297	40.565	13.541	0.00	0.00
ATOM	652	NH1	ARG	40	37.952	41.219	13.769	0.00	0.00
ATOM	653	1HH1	ARG	40	38.018	41.435	14.494	0.00	0.00
ATOM	654	2HH1	ARG	40	38.425	41.473	13.212	0.00	0.00
ATOM	655	NH2	ARG	40	37.298	40.311	12.598	0.00	0.00
ATOM	656	1HH2	ARG	40	36.842	39.796	12.364	0.00	0.00
ATOM	657	2HH2	ARG	40	37.792	40.609	12.089	0.00	0.00
ATOM	658	C	ARG	40	34.840	42.399	19.464	0.00	0.00
ATOM	659	O	ARG	40	34.847	41.717	20.472	0.00	0.00
ATOM	660	N	SER	41	35.125	43.692	19.485	0.00	0.00
ATOM	661	H	SER	41	35.105	44.174	18.616	0.00	0.00
ATOM	662	CA	SER	41	35.487	44.435	20.691	0.00	0.00
ATOM	663	HA	SER	41	36.293	43.918	21.189	0.00	0.00
ATOM	664	CB	SER	41	35.991	45.820	20.319	0.00	0.00
ATOM	665	HB2	SER	41	35.196	46.395	19.890	0.00	0.00
ATOM	666	HB3	SER	41	36.335	46.315	21.205	0.00	0.00
ATOM	667	OG	SER	41	37.042	45.737	19.397	0.00	0.00
ATOM	668	HG	SER	41	36.679	45.696	18.555	0.00	0.00
ATOM	669	C	SER	41	34.327	44.537	21.683	0.00	0.00
ATOM	670	O	SER	41	34.515	44.360	22.866	0.00	0.00
ATOM	671	N	TYR	42	33.107	44.757	21.207	0.00	0.00
ATOM	672	H	TYR	42	33.015	44.920	20.230	0.00	0.00
ATOM	673	CA	TYR	42	31.876	44.776	21.998	0.00	0.00
ATOM	674	HA	TYR	42	31.978	45.504	22.790	0.00	0.00
ATOM	675	CB	TYR	42	30.731	45.226	21.091	0.00	0.00
ATOM	676	HB2	TYR	42	30.841	46.275	20.908	0.00	0.00
ATOM	677	HB3	TYR	42	30.839	44.747	20.139	0.00	0.00
ATOM	678	CG	TYR	42	29.323	44.966	21.553	0.00	0.00
ATOM	679	CD1	TYR	42	28.763	45.720	22.558	0.00	0.00
ATOM	680	HD1	TYR	42	29.353	46.459	23.028	0.00	0.00
ATOM	681	CE1	TYR	42	27.432	45.525	22.933	0.00	0.00
ATOM	682	HE1	TYR	42	26.995	46.106	23.696	0.00	0.00
ATOM	683	CZ	TYR	42	26.656	44.573	22.296	0.00	0.00
ATOM	684	OH	TYR	42	25.374	44.385	22.651	0.00	0.00
ATOM	685	HH	TYR	42	24.958	43.762	22.115	0.00	0.00
ATOM	686	CE2	TYR	42	27.215	43.821	21.281	0.00	0.00
ATOM	687	HE2	TYR	42	26.629	43.096	20.781	0.00	0.00
ATOM	688	CD2	TYR	42	28.549	44.016	20.918	0.00	0.00
ATOM	689	HD2	TYR	42	28.977	43.444	20.144	0.00	0.00
ATOM	690	C	TYR	42	31.593	43.429	22.668	0.00	0.00
ATOM	691	O	TYR	42	31.349	43.402	23.864	0.00	0.00
ATOM	692	N	VAL	43	31.709	42.307	21.956	0.00	0.00
ATOM	693	H	VAL	43	31.908	42.394	20.983	0.00	0.00
ATOM	694	CA	VAL	43	31.550	40.960	22.528	0.00	0.00
ATOM	695	HA	VAL	43	30.590	40.914	23.025	0.00	0.00

ATOM	696	CB	VAL	43	31.569	39.880	21.430	0.00	0.00
ATOM	697	HB	VAL	43	32.460	40.005	20.838	0.00	0.00
ATOM	698	CG1	VAL	43	31.581	38.459	21.976	0.00	0.00
ATOM	699	1HG1	VAL	43	31.638	37.803	21.296	0.00	0.00
ATOM	700	2HG1	VAL	43	32.320	38.269	22.540	0.00	0.00
ATOM	701	3HG1	VAL	43	30.811	38.242	22.475	0.00	0.00
ATOM	702	CG2	VAL	43	30.361	39.989	20.505	0.00	0.00
ATOM	703	1HG2	VAL	43	30.120	39.911	20.201	0.00	0.00
ATOM	704	2HG2	VAL	43	29.979	39.998	20.373	0.00	0.00
ATOM	705	3HG2	VAL	43	30.106	40.146	20.241	0.00	0.00
ATOM	706	C	VAL	43	32.601	40.691	23.607	0.00	0.00
ATOM	707	O	VAL	43	32.267	40.168	24.661	0.00	0.00
ATOM	708	N	PHE	44	33.850	41.103	23.387	0.00	0.00
ATOM	709	H	PHE	44	34.071	41.506	22.505	0.00	0.00
ATOM	710	CA	PHE	44	34.916	40.989	24.378	0.00	0.00
ATOM	711	HA	PHE	44	34.980	39.955	24.687	0.00	0.00
ATOM	712	CB	PHE	44	36.260	41.369	23.761	0.00	0.00
ATOM	713	HB2	PHE	44	36.453	40.748	22.915	0.00	0.00
ATOM	714	HB3	PHE	44	36.224	42.374	23.401	0.00	0.00
ATOM	715	CG	PHE	44	37.420	41.252	24.704	0.00	0.00
ATOM	716	CD1	PHE	44	38.086	40.079	24.839	0.00	0.00
ATOM	717	HD1	PHE	44	37.795	39.268	24.258	0.00	0.00
ATOM	718	CE1	PHE	44	39.133	39.964	25.729	0.00	0.00
ATOM	719	HE1	PHE	44	39.638	39.067	25.820	0.00	0.00
ATOM	720	CZ	PHE	44	39.522	41.019	26.492	0.00	0.00
ATOM	721	HZ	PHE	44	40.325	40.940	27.171	0.00	0.00
ATOM	722	CE2	PHE	44	38.867	42.193	26.359	0.00	0.00
ATOM	723	HE2	PHE	44	39.169	43.007	26.933	0.00	0.00
ATOM	724	CD2	PHE	44	37.821	42.315	25.466	0.00	0.00
ATOM	725	HD2	PHE	44	37.335	43.225	25.357	0.00	0.00
ATOM	726	C	PHE	44	34.628	41.815	25.638	0.00	0.00
ATOM	727	O	PHE	44	34.643	41.271	26.730	0.00	0.00
ATOM	728	N	TYR	45	34.321	43.101	25.504	0.00	0.00
ATOM	729	H	TYR	45	34.330	43.497	24.589	0.00	0.00
ATOM	730	CA	TYR	45	34.110	43.987	26.645	0.00	0.00
ATOM	731	HA	TYR	45	34.900	43.790	27.356	0.00	0.00
ATOM	732	CB	TYR	45	34.238	45.456	26.239	0.00	0.00
ATOM	733	HB2	TYR	45	33.651	45.632	25.358	0.00	0.00
ATOM	734	HB3	TYR	45	33.830	46.063	27.023	0.00	0.00
ATOM	735	CG	TYR	45	35.654	45.911	26.008	0.00	0.00
ATOM	736	CD1	TYR	45	36.569	45.869	27.038	0.00	0.00
ATOM	737	HD1	TYR	45	36.266	45.543	27.997	0.00	0.00
ATOM	738	CE1	TYR	45	37.883	46.259	26.826	0.00	0.00
ATOM	739	HE1	TYR	45	38.576	46.214	27.615	0.00	0.00
ATOM	740	CZ	TYR	45	38.296	46.708	25.587	0.00	0.00
ATOM	741	OH	TYR	45	39.558	47.094	25.382	0.00	0.00
ATOM	742	HH	TYR	45	40.081	46.976	26.134	0.00	0.00
ATOM	743	CE2	TYR	45	37.379	46.778	24.560	0.00	0.00
ATOM	744	HE2	TYR	45	37.688	47.135	23.616	0.00	0.00
ATOM	745	CD2	TYR	45	36.063	46.385	24.771	0.00	0.00
ATOM	746	HD2	TYR	45	35.367	46.446	23.983	0.00	0.00
ATOM	747	C	TYR	45	32.819	43.691	27.406	0.00	0.00
ATOM	748	O	TYR	45	32.829	43.750	28.622	0.00	0.00
ATOM	749	N	ARG	46	31.736	43.265	26.748	0.00	0.00
ATOM	750	H	ARG	46	31.772	43.238	25.753	0.00	0.00
ATOM	751	CA	ARG	46	30.534	42.766	27.429	0.00	0.00
ATOM	752	HA	ARG	46	30.201	43.512	28.141	0.00	0.00
ATOM	753	CB	ARG	46	29.412	42.468	26.428	0.00	0.00
ATOM	754	HB2	ARG	46	29.809	41.863	25.625	0.00	0.00
ATOM	755	HB3	ARG	46	28.665	41.879	26.941	0.00	0.00
ATOM	756	CG	ARG	46	28.705	43.677	25.825	0.00	0.00
ATOM	757	HG2	ARG	46	29.421	44.291	25.308	0.00	0.00
ATOM	758	HG3	ARG	46	27.995	43.326	25.098	0.00	0.00
ATOM	759	CD	ARG	46	27.969	44.559	26.825	0.00	0.00
ATOM	760	HD2	ARG	46	28.695	45.025	27.472	0.00	0.00
ATOM	761	HD3	ARG	46	27.485	45.350	26.276	0.00	0.00
ATOM	762	NE	ARG	46	26.942	43.841	27.585	0.00	0.00
ATOM	763	HE	ARG	46	26.175	43.471	27.070	0.00	0.00
ATOM	764	CZ	ARG	46	26.914	43.639	28.881	0.00	0.00
ATOM	765	NH1	ARG	46	27.803	44.093	29.690	0.00	0.00
ATOM	766	1HH1	ARG	46	28.510	44.711	29.373	0.00	0.00
ATOM	767	2HH1	ARG	46	27.690	43.927	30.664	0.00	0.00
ATOM	768	NH2	ARG	46	25.968	42.965	29.426	0.00	0.00
ATOM	769	1HH2	ARG	46	25.191	42.672	28.885	0.00	0.00
ATOM	770	2HH2	ARG	46	25.966	42.860	30.410	0.00	0.00
ATOM	771	C	ARG	46	30.833	41.525	28.264	0.00	0.00
ATOM	772	O	ARG	46	30.471	41.486	29.427	0.00	0.00
ATOM	773	N	HIP	47	31.568	40.558	27.720	0.00	0.00
ATOM	774	H	HIP	47	31.826	40.648	26.764	0.00	0.00
ATOM	775	CA	HIP	47	31.977	39.363	28.460	0.00	0.00
ATOM	776	HA	HIP	47	31.087	38.943	28.903	0.00	0.00
ATOM	777	CB	HIP	47	32.550	38.324	27.493	0.00	0.00
ATOM	778	HB2	HIP	47	31.844	38.158	26.701	0.00	0.00
ATOM	779	HB3	HIP	47	33.445	38.712	27.045	0.00	0.00
ATOM	780	CG	HIP	47	32.861	36.996	28.116	0.00	0.00
ATOM	781	ND1	HIP	47	32.040	36.258	28.916	0.00	0.00
ATOM	782	HD1	HIP	47	31.123	36.512	29.202	0.00	0.00
ATOM	783	CE1	HIP	47	32.676	35.150	29.276	0.00	0.00
ATOM	784	HE1	HIP	47	32.292	34.385	29.901	0.00	0.00
ATOM	785	NE2	HIP	47	33.883	35.165	28.728	0.00	0.00
ATOM	786	HE2	HIP	47	34.574	34.472	28.848	0.00	0.00
ATOM	787	CD2	HIP	47	34.013	36.312	28.002	0.00	0.00
ATOM	788	HD2	HIP	47	34.867	36.620	27.459	0.00	0.00
ATOM	789	C	HIP	47	32.922	39.680	29.620	0.00	0.00
ATOM	790	O	HIP	47	32.833	39.054	30.651	0.00	0.00
ATOM	791	N	GLN	48	33.773	40.685	29.503	0.00	0.00
ATOM	792	H	GLN	48	33.839	41.133	28.626	0.00	0.00
ATOM	793	CA	GLN	48	34.619	41.154	30.597	0.00	0.00
ATOM	794	HA	GLN	48	35.052	40.286	31.051	0.00	0.00
ATOM	795	CB	GLN	48	35.743	42.007	30.042	0.00	0.00
ATOM	796	HB2	GLN	48	36.164	41.525	29.205	0.00	0.00
ATOM	797	HB3	GLN	48	35.351	42.922	29.710	0.00	0.00
ATOM	798	CG	GLN	48	36.845	42.310	31.021	0.00	0.00
ATOM	799	HG2	GLN	48	37.526	42.938	30.600	0.00	0.00
ATOM	800	HG3	GLN	48	36.487	42.786	31.833	0.00	0.00

ATOM	801	CD	GLN	48	37.540	41.179	31.464	0.00	0.00
ATOM	802	OE1	GLN	48	37.686	40.227	31.039	0.00	0.00
ATOM	803	NE2	GLN	48	37.991	41.223	32.324	0.00	0.00
ATOM	804	1HE2	GLN	48	38.424	40.486	32.616	0.00	0.00
ATOM	805	2HE2	GLN	48	37.890	41.988	32.688	0.00	0.00
ATOM	806	C	GLN	48	33.827	41.865	31.696	0.00	0.00
ATOM	807	O	GLN	48	34.087	41.635	32.858	0.00	0.00
ATOM	808	N	GLN	49	32.826	42.667	31.357	0.00	0.00
ATOM	809	H	GLN	49	32.677	42.843	30.392	0.00	0.00
ATOM	810	CA	GLN	49	31.942	43.329	32.318	0.00	0.00
ATOM	811	HA	GLN	49	32.542	43.893	33.020	0.00	0.00
ATOM	812	CB	GLN	49	31.014	44.290	31.574	0.00	0.00
ATOM	813	HB2	GLN	49	30.641	43.820	30.740	0.00	0.00
ATOM	814	HB3	GLN	49	30.212	44.531	32.168	0.00	0.00
ATOM	815	CG	GLN	49	31.629	45.561	31.162	0.00	0.00
ATOM	816	HG2	GLN	49	31.759	46.140	32.000	0.00	0.00
ATOM	817	HG3	GLN	49	32.568	45.374	30.772	0.00	0.00
ATOM	818	CD	GLN	49	30.828	46.332	30.150	0.00	0.00
ATOM	819	OE1	GLN	49	29.991	45.901	29.479	0.00	0.00
ATOM	820	NE2	GLN	49	31.049	47.493	29.983	0.00	0.00
ATOM	821	1HE2	GLN	49	30.501	47.986	29.335	0.00	0.00
ATOM	822	2HE2	GLN	49	31.714	47.860	30.533	0.00	0.00
ATOM	823	C	GLN	49	31.108	42.340	33.134	0.00	0.00
ATOM	824	O	GLN	49	30.963	42.511	34.331	0.00	0.00
ATOM	825	N	GLU	50	30.600	41.276	32.523	0.00	0.00
ATOM	826	H	GLU	50	30.680	41.220	31.534	0.00	0.00
ATOM	827	CA	GLU	50	29.835	40.235	33.219	0.00	0.00
ATOM	828	HA	GLU	50	29.130	40.714	33.882	0.00	0.00
ATOM	829	CB	GLU	50	29.042	39.401	32.213	0.00	0.00
ATOM	830	HB2	GLU	50	29.709	39.043	31.458	0.00	0.00
ATOM	831	HB3	GLU	50	28.621	38.560	32.724	0.00	0.00
ATOM	832	CG	GLU	50	27.913	40.172	31.559	0.00	0.00
ATOM	833	HG2	GLU	50	27.342	40.645	32.323	0.00	0.00
ATOM	834	HG3	GLU	50	28.312	40.936	30.934	0.00	0.00
ATOM	835	CD	GLU	50	26.995	39.289	30.746	0.00	0.00
ATOM	836	OE1	GLU	50	27.418	38.679	29.773	0.00	0.00
ATOM	837	OE2	GLU	50	25.834	39.175	31.076	0.00	0.00
ATOM	838	C	GLU	50	30.711	39.344	34.108	0.00	0.00
ATOM	839	O	GLU	50	30.234	38.810	35.072	0.00	0.00
ATOM	840	N	GLN	51	31.992	39.213	33.831	0.00	0.00
ATOM	841	H	GLN	51	32.311	39.643	33.008	0.00	0.00
ATOM	842	CA	GLN	51	32.964	38.545	34.696	0.00	0.00
ATOM	843	HA	GLN	51	32.504	37.683	35.146	0.00	0.00
ATOM	844	CB	GLN	51	34.148	38.076	33.870	0.00	0.00
ATOM	845	HB2	GLN	51	34.498	38.877	33.261	0.00	0.00
ATOM	846	HB3	GLN	51	34.941	37.796	34.529	0.00	0.00
ATOM	847	CG	GLN	51	33.824	36.894	32.988	0.00	0.00
ATOM	848	HG2	GLN	51	33.362	36.362	33.330	0.00	0.00
ATOM	849	HG3	GLN	51	33.424	37.044	32.306	0.00	0.00
ATOM	850	CD	GLN	51	34.662	36.218	32.553	0.00	0.00
ATOM	851	OE1	GLN	51	34.916	35.468	32.901	0.00	0.00
ATOM	852	NE2	GLN	51	35.129	36.466	31.788	0.00	0.00
ATOM	853	1HE2	GLN	51	35.695	36.048	31.515	0.00	0.00
ATOM	854	2HE2	GLN	51	34.927	37.081	31.494	0.00	0.00
ATOM	855	C	GLN	51	33.432	39.427	35.848	0.00	0.00
ATOM	856	O	GLN	51	33.585	38.954	36.951	0.00	0.00
ATOM	857	N	GLU	52	33.581	40.721	35.634	0.00	0.00
ATOM	858	H	GLU	52	33.489	41.043	34.706	0.00	0.00
ATOM	859	CA	GLU	52	33.928	41.679	36.671	0.00	0.00
ATOM	860	HA	GLU	52	34.803	41.328	37.175	0.00	0.00
ATOM	861	CB	GLU	52	34.249	43.016	36.034	0.00	0.00
ATOM	862	HB2	GLU	52	34.862	42.882	35.250	0.00	0.00
ATOM	863	HB3	GLU	52	33.426	43.451	35.676	0.00	0.00
ATOM	864	CG	GLU	52	34.894	43.953	36.891	0.00	0.00
ATOM	865	HG2	GLU	52	34.325	44.207	37.558	0.00	0.00
ATOM	866	HG3	GLU	52	35.582	43.532	37.294	0.00	0.00
ATOM	867	CD	GLU	52	35.375	45.112	36.292	0.00	0.00
ATOM	868	OE1	GLU	52	35.130	45.782	36.230	0.00	0.00
ATOM	869	OE2	GLU	52	36.014	45.366	35.891	0.00	0.00
ATOM	870	C	GLU	52	32.839	41.815	37.716	0.00	0.00
ATOM	871	O	GLU	52	33.124	41.981	38.874	0.00	0.00
ATOM	872	N	ALA	53	31.597	41.661	37.334	0.00	0.00
ATOM	873	H	ALA	53	31.428	41.546	36.374	0.00	0.00
ATOM	874	CA	ALA	53	30.476	41.614	38.233	0.00	0.00
ATOM	875	HA	ALA	53	30.537	42.451	38.882	0.00	0.00
ATOM	876	CB	ALA	53	29.228	41.747	37.430	0.00	0.00
ATOM	877	HB1	ALA	53	28.938	41.835	37.217	0.00	0.00
ATOM	878	HB2	ALA	53	28.927	41.734	37.213	0.00	0.00
ATOM	879	HB3	ALA	53	28.904	41.769	37.298	0.00	0.00
ATOM	880	C	ALA	53	30.439	40.378	39.110	0.00	0.00
ATOM	881	O	ALA	53	29.839	40.388	40.138	0.00	0.00
ATOM	882	N	GLU	54	31.105	39.333	38.737	0.00	0.00
ATOM	883	H	GLU	54	31.537	39.379	37.865	0.00	0.00
ATOM	884	CA	GLU	54	31.275	38.129	39.518	0.00	0.00
ATOM	885	HA	GLU	54	30.558	38.115	40.287	0.00	0.00
ATOM	886	CB	GLU	54	31.039	36.934	38.658	0.00	0.00
ATOM	887	HB2	GLU	54	31.170	37.015	37.829	0.00	0.00
ATOM	888	HB3	GLU	54	31.533	36.344	38.866	0.00	0.00
ATOM	889	CG	GLU	54	29.973	36.391	38.614	0.00	0.00
ATOM	890	HG2	GLU	54	29.833	36.504	38.784	0.00	0.00
ATOM	891	HG3	GLU	54	29.866	36.452	38.408	0.00	0.00
ATOM	892	CD	GLU	54	29.246	35.615	38.592	0.00	0.00
ATOM	893	OE1	GLU	54	28.928	35.288	38.365	0.00	0.00
ATOM	894	OE2	GLU	54	28.967	35.322	38.803	0.00	0.00
ATOM	895	C	GLU	54	32.608	38.047	40.199	0.00	0.00
ATOM	896	O	GLU	54	32.827	37.181	40.958	0.00	0.00
ATOM	897	N	GLY	55	33.498	38.942	39.945	0.00	0.00
ATOM	898	H	GLY	55	33.251	39.612	39.311	0.00	0.00
ATOM	899	CA	GLY	55	34.816	38.977	40.484	0.00	0.00
ATOM	900	HA2	GLY	55	35.201	39.931	40.346	0.00	0.00
ATOM	901	HA3	GLY	55	34.797	38.801	41.512	0.00	0.00
ATOM	902	C	GLY	55	35.750	38.019	39.865	0.00	0.00
ATOM	903	O	GLY	55	36.709	37.715	40.420	0.00	0.00
ATOM	904	N	VAL	56	35.468	37.515	38.733	0.00	0.00
ATOM	905	H	VAL	56	34.690	37.850	38.319	0.00	0.00

ATOM	906	CA	VAL	56	36.222	36.542	38.021	0.00	0.00
ATOM	907	HA	VAL	56	36.863	36.088	38.644	0.00	0.00
ATOM	908	CB	VAL	56	35.382	35.543	37.478	0.00	0.00
ATOM	909	HB	VAL	56	34.734	35.986	36.870	0.00	0.00
ATOM	910	CG1	VAL	56	36.103	34.507	36.737	0.00	0.00
ATOM	911	1HG1	VAL	56	36.716	34.446	36.648	0.00	0.00
ATOM	912	2HG1	VAL	56	36.115	33.863	36.813	0.00	0.00
ATOM	913	3HG1	VAL	56	35.983	34.454	36.186	0.00	0.00
ATOM	914	CG2	VAL	56	34.629	34.926	38.486	0.00	0.00
ATOM	915	1HG2	VAL	56	34.556	34.595	38.767	0.00	0.00
ATOM	916	2HG2	VAL	56	34.458	34.904	38.873	0.00	0.00
ATOM	917	3HG2	VAL	56	34.313	34.827	38.546	0.00	0.00
ATOM	918	C	VAL	56	37.012	37.117	37.010	0.00	0.00
ATOM	919	O	VAL	56	36.560	37.884	36.373	0.00	0.00
ATOM	920	N	ALA	57	38.188	36.741	36.847	0.00	0.00
ATOM	921	H	ALA	57	38.501	36.103	37.388	0.00	0.00
ATOM	922	CA	ALA	57	39.055	37.156	35.893	0.00	0.00
ATOM	923	HA	ALA	57	38.732	37.916	35.657	0.00	0.00
ATOM	924	CB	ALA	57	40.214	37.351	36.356	0.00	0.00
ATOM	925	HB1	ALA	57	40.585	37.485	36.575	0.00	0.00
ATOM	926	HB2	ALA	57	40.487	37.287	36.434	0.00	0.00
ATOM	927	HB3	ALA	57	40.419	37.431	36.388	0.00	0.00
ATOM	928	C	ALA	57	39.254	36.416	34.775	0.00	0.00
ATOM	929	O	ALA	57	39.132	35.460	34.837	0.00	0.00
ATOM	930	N	ALA	58	39.574	36.869	33.742	0.00	0.00
ATOM	931	H	ALA	58	39.655	37.649	33.755	0.00	0.00
ATOM	932	CA	ALA	58	39.816	36.301	32.594	0.00	0.00
ATOM	933	HA	ALA	58	39.204	35.736	32.647	0.00	0.00
ATOM	934	CB	ALA	58	39.651	37.010	31.664	0.00	0.00
ATOM	935	HB1	ALA	58	39.533	37.190	31.362	0.00	0.00
ATOM	936	HB2	ALA	58	39.647	37.216	31.377	0.00	0.00
ATOM	937	HB3	ALA	58	39.643	37.128	31.571	0.00	0.00
ATOM	938	C	ALA	58	40.987	35.787	32.245	0.00	0.00
ATOM	939	O	ALA	58	41.738	36.209	32.532	0.00	0.00
ATOM	940	N	PRO	59	41.180	34.900	31.616	0.00	0.00
ATOM	941	CD	PRO	59	40.366	34.286	31.295	0.00	0.00
ATOM	942	HD2	PRO	59	39.948	34.650	30.756	0.00	0.00
ATOM	943	HD3	PRO	59	39.784	34.079	32.056	0.00	0.00
ATOM	944	CG	PRO	59	40.988	33.371	30.638	0.00	0.00
ATOM	945	HG2	PRO	59	41.056	33.383	29.814	0.00	0.00
ATOM	946	HG3	PRO	59	40.629	32.802	30.926	0.00	0.00
ATOM	947	CB	PRO	59	42.068	33.333	30.797	0.00	0.00
ATOM	948	HB2	PRO	59	42.102	32.869	31.424	0.00	0.00
ATOM	949	HB3	PRO	59	42.587	33.064	30.029	0.00	0.00
ATOM	950	CA	PRO	59	42.275	34.386	31.213	0.00	0.00
ATOM	951	HA	PRO	59	42.649	34.337	31.956	0.00	0.00
ATOM	952	C	PRO	59	43.055	34.927	30.231	0.00	0.00
ATOM	953	O	PRO	59	42.718	35.424	29.556	0.00	0.00
ATOM	954	N	ALA	60	44.106	34.819	30.135	0.00	0.00
ATOM	955	H	ALA	60	44.326	34.407	30.725	0.00	0.00
ATOM	956	CA	ALA	60	44.979	35.218	29.225	0.00	0.00
ATOM	957	HA	ALA	60	44.570	35.853	28.717	0.00	0.00
ATOM	958	CB	ALA	60	45.897	35.789	29.914	0.00	0.00
ATOM	959	HB1	ALA	60	46.068	35.834	30.090	0.00	0.00
ATOM	960	HB2	ALA	60	46.169	35.947	29.981	0.00	0.00
ATOM	961	HB3	ALA	60	46.127	36.008	30.164	0.00	0.00
ATOM	962	C	ALA	60	45.506	34.245	28.275	0.00	0.00
ATOM	963	O	ALA	60	45.626	33.229	28.577	0.00	0.00
ATOM	964	N	ASP	61	45.850	34.554	27.129	0.00	0.00
ATOM	965	H	ASP	61	45.740	35.402	26.945	0.00	0.00
ATOM	966	CA	ASP	61	46.413	33.767	26.100	0.00	0.00
ATOM	967	HA	ASP	61	46.740	32.912	26.530	0.00	0.00
ATOM	968	CB	ASP	61	45.402	33.445	25.132	0.00	0.00
ATOM	969	HB2	ASP	61	44.606	33.097	25.660	0.00	0.00
ATOM	970	HB3	ASP	61	45.111	34.268	24.636	0.00	0.00
ATOM	971	CG	ASP	61	45.827	32.489	24.131	0.00	0.00
ATOM	972	OD1	ASP	61	45.840	32.012	23.911	0.00	0.00
ATOM	973	OD2	ASP	61	46.138	32.216	23.545	0.00	0.00
ATOM	974	C	ASP	61	47.533	34.422	25.416	0.00	0.00
ATOM	975	O	ASP	61	47.456	35.549	25.207	0.00	0.00
ATOM	976	N	PRO	62	48.560	33.766	25.037	0.00	0.00
ATOM	977	CD	PRO	62	48.855	32.487	25.350	0.00	0.00
ATOM	978	HD2	PRO	62	48.292	31.864	24.862	0.00	0.00
ATOM	979	HD3	PRO	62	48.769	32.305	26.350	0.00	0.00
ATOM	980	CG	PRO	62	50.165	32.303	24.949	0.00	0.00
ATOM	981	HG2	PRO	62	50.249	31.671	24.405	0.00	0.00
ATOM	982	HG3	PRO	62	50.615	32.170	25.643	0.00	0.00
ATOM	983	CB	PRO	62	50.634	33.315	24.321	0.00	0.00
ATOM	984	HB2	PRO	62	51.378	33.544	24.716	0.00	0.00
ATOM	985	HB3	PRO	62	50.840	33.068	23.462	0.00	0.00
ATOM	986	CA	PRO	62	49.645	34.333	24.392	0.00	0.00
ATOM	987	HA	PRO	62	49.984	35.066	24.997	0.00	0.00
ATOM	988	C	PRO	62	49.413	34.891	23.051	0.00	0.00
ATOM	989	O	PRO	62	50.093	35.707	22.647	0.00	0.00
ATOM	990	N	GLU	63	48.465	34.479	22.360	0.00	0.00
ATOM	991	H	GLU	63	47.938	33.816	22.750	0.00	0.00
ATOM	992	CA	GLU	63	48.141	34.939	21.066	0.00	0.00
ATOM	993	HA	GLU	63	48.801	35.644	20.767	0.00	0.00
ATOM	994	CB	GLU	63	48.231	33.876	20.079	0.00	0.00
ATOM	995	HB2	GLU	63	47.628	33.152	20.387	0.00	0.00
ATOM	996	HB3	GLU	63	47.898	34.195	19.164	0.00	0.00
ATOM	997	CG	GLU	63	49.527	33.330	19.874	0.00	0.00
ATOM	998	HG2	GLU	63	49.876	33.190	20.585	0.00	0.00
ATOM	999	HG3	GLU	63	49.520	32.621	19.489	0.00	0.00
ATOM	1000	CD	GLU	63	50.362	33.877	19.221	0.00	0.00
ATOM	1001	OE1	GLU	63	50.664	33.848	18.976	0.00	0.00
ATOM	1002	OE2	GLU	63	50.735	34.325	18.933	0.00	0.00
ATOM	1003	C	GLU	63	46.838	35.568	21.019	0.00	0.00
ATOM	1004	O	GLU	63	46.680	36.445	20.292	0.00	0.00
ATOM	1005	N	MET	64	45.929	35.143	21.800	0.00	0.00
ATOM	1006	H	MET	64	46.158	34.414	22.349	0.00	0.00
ATOM	1007	CA	MET	64	44.636	35.634	21.932	0.00	0.00
ATOM	1008	HA	MET	64	44.135	34.943	22.491	0.00	0.00
ATOM	1009	CB	MET	64	44.639	36.837	22.752	0.00	0.00
ATOM	1010	HB2	MET	64	45.313	36.725	23.506	0.00	0.00

ATOM	1011	HB3	MET	64	44.937	37.604	22.162	0.00	0.00
ATOM	1012	CG	MET	64	43.384	37.193	23.376	0.00	0.00
ATOM	1013	HG2	MET	64	43.426	38.039	23.789	0.00	0.00
ATOM	1014	HG3	MET	64	42.741	37.266	22.709	0.00	0.00
ATOM	1015	SD	MET	64	42.834	36.260	24.543	0.00	0.00
ATOM	1016	CE	MET	64	42.441	36.774	25.413	0.00	0.00
ATOM	1017	HE1	MET	64	42.276	36.946	25.569	0.00	0.00
ATOM	1018	HE2	MET	64	42.353	36.813	25.654	0.00	0.00
ATOM	1019	HE3	MET	64	42.443	36.877	25.543	0.00	0.00
ATOM	1020	C	MET	64	43.916	35.741	20.643	0.00	0.00
ATOM	1021	O	MET	64	43.280	36.631	20.408	0.00	0.00
ATOM	1022	N	VAL	65	44.008	34.829	19.795	0.00	0.00
ATOM	1023	H	VAL	65	44.532	34.123	20.050	0.00	0.00
ATOM	1024	CA	VAL	65	43.436	34.834	18.485	0.00	0.00
ATOM	1025	HA	VAL	65	43.322	35.818	18.215	0.00	0.00
ATOM	1026	CB	VAL	65	44.339	34.218	17.490	0.00	0.00
ATOM	1027	HB	VAL	65	43.880	34.267	16.562	0.00	0.00
ATOM	1028	CG1	VAL	65	45.586	34.939	17.393	0.00	0.00
ATOM	1029	1HG1	VAL	65	45.881	35.097	17.119	0.00	0.00
ATOM	1030	2HG1	VAL	65	46.057	34.979	17.486	0.00	0.00
ATOM	1031	3HG1	VAL	65	45.727	35.258	17.484	0.00	0.00
ATOM	1032	CG2	VAL	65	44.634	32.836	17.740	0.00	0.00
ATOM	1033	1HG2	VAL	65	44.913	32.555	17.982	0.00	0.00
ATOM	1034	2HG2	VAL	65	44.463	32.399	17.904	0.00	0.00
ATOM	1035	3HG2	VAL	65	44.741	32.541	17.498	0.00	0.00
ATOM	1036	C	VAL	65	42.079	34.257	18.369	0.00	0.00
ATOM	1037	O	VAL	65	41.495	34.327	17.344	0.00	0.00
ATOM	1038	N	THR	66	41.548	33.711	19.394	0.00	0.00
ATOM	1039	H	THR	66	42.064	33.689	20.205	0.00	0.00
ATOM	1040	CA	THR	66	40.220	33.189	19.418	0.00	0.00
ATOM	1041	HA	THR	66	40.094	32.613	18.573	0.00	0.00
ATOM	1042	CB	THR	66	40.014	32.330	20.576	0.00	0.00
ATOM	1043	HB	THR	66	39.002	32.114	20.656	0.00	0.00
ATOM	1044	CG2	THR	66	40.766	31.084	20.483	0.00	0.00
ATOM	1045	1HG2	THR	66	40.831	30.738	20.500	0.00	0.00
ATOM	1046	2HG2	THR	66	40.972	30.786	20.342	0.00	0.00
ATOM	1047	3HG2	THR	66	41.035	30.812	20.541	0.00	0.00
ATOM	1048	OG1	THR	66	40.398	32.934	21.688	0.00	0.00
ATOM	1049	HG1	THR	66	40.600	32.572	22.210	0.00	0.00
ATOM	1050	C	THR	66	39.149	34.218	19.393	0.00	0.00
ATOM	1051	O	THR	66	38.131	34.007	18.812	0.00	0.00
ATOM	1052	N	LEU	67	39.395	35.351	19.946	0.00	0.00
ATOM	1053	H	LEU	67	40.242	35.433	20.417	0.00	0.00
ATOM	1054	CA	LEU	67	38.629	36.540	19.800	0.00	0.00
ATOM	1055	HA	LEU	67	38.102	36.492	18.894	0.00	0.00
ATOM	1056	CB	LEU	67	37.603	36.618	20.904	0.00	0.00
ATOM	1057	HB2	LEU	67	37.004	35.747	20.870	0.00	0.00
ATOM	1058	HB3	LEU	67	38.114	36.623	21.814	0.00	0.00
ATOM	1059	CG	LEU	67	36.679	37.791	20.873	0.00	0.00
ATOM	1060	HG	LEU	67	37.233	38.665	20.957	0.00	0.00
ATOM	1061	CD1	LEU	67	35.883	37.861	19.658	0.00	0.00
ATOM	1062	1HD1	LEU	67	35.761	37.929	19.329	0.00	0.00
ATOM	1063	2HD1	LEU	67	35.662	37.803	19.344	0.00	0.00
ATOM	1064	3HD1	LEU	67	35.655	37.928	19.419	0.00	0.00
ATOM	1065	CD2	LEU	67	35.735	37.739	22.001	0.00	0.00
ATOM	1066	1HD2	LEU	67	35.368	37.181	22.122	0.00	0.00
ATOM	1067	2HD2	LEU	67	35.964	37.823	22.630	0.00	0.00
ATOM	1068	3HD2	LEU	67	35.185	38.187	22.083	0.00	0.00
ATOM	1069	C	LEU	67	39.591	37.718	19.767	0.00	0.00
ATOM	1070	O	LEU	67	39.976	38.198	20.779	0.00	0.00
ATOM	1071	N	PRO	68	40.034	38.165	18.635	0.00	0.00
ATOM	1072	CD	PRO	68	39.748	37.618	17.375	0.00	0.00
ATOM	1073	HD2	PRO	68	38.799	37.875	17.069	0.00	0.00
ATOM	1074	HD3	PRO	68	39.822	36.582	17.376	0.00	0.00
ATOM	1075	CG	PRO	68	40.737	38.190	16.455	0.00	0.00
ATOM	1076	HG2	PRO	68	40.314	38.587	15.734	0.00	0.00
ATOM	1077	HG3	PRO	68	41.353	37.547	16.152	0.00	0.00
ATOM	1078	CB	PRO	68	41.436	39.157	17.143	0.00	0.00
ATOM	1079	HB2	PRO	68	42.299	38.962	17.022	0.00	0.00
ATOM	1080	HB3	PRO	68	41.257	39.960	16.807	0.00	0.00
ATOM	1081	CA	PRO	68	41.063	39.158	18.526	0.00	0.00
ATOM	1082	HA	PRO	68	41.865	38.846	19.068	0.00	0.00
ATOM	1083	C	PRO	68	40.721	40.513	18.995	0.00	0.00
ATOM	1084	O	PRO	68	39.724	41.027	18.660	0.00	0.00
ATOM	1085	N	LEU	69	41.574	41.093	19.753	0.00	0.00
ATOM	1086	H	LEU	69	42.359	40.605	19.972	0.00	0.00
ATOM	1087	CA	LEU	69	41.456	42.358	20.318	0.00	0.00
ATOM	1088	HA	LEU	69	40.858	42.922	19.723	0.00	0.00
ATOM	1089	CB	LEU	69	40.796	42.206	21.583	0.00	0.00
ATOM	1090	HB2	LEU	69	39.973	41.626	21.420	0.00	0.00
ATOM	1091	HB3	LEU	69	41.402	41.710	22.195	0.00	0.00
ATOM	1092	CG	LEU	69	40.375	43.365	22.288	0.00	0.00
ATOM	1093	HG	LEU	69	40.470	43.215	22.810	0.00	0.00
ATOM	1094	CD1	LEU	69	40.692	44.178	22.268	0.00	0.00
ATOM	1095	1HD1	LEU	69	40.745	44.085	22.323	0.00	0.00
ATOM	1096	2HD1	LEU	69	40.780	44.412	22.282	0.00	0.00
ATOM	1097	3HD1	LEU	69	40.771	44.642	22.207	0.00	0.00
ATOM	1098	CD2	LEU	69	39.433	43.905	22.406	0.00	0.00
ATOM	1099	1HD2	LEU	69	39.462	43.953	22.639	0.00	0.00
ATOM	1100	2HD2	LEU	69	39.229	44.324	22.297	0.00	0.00
ATOM	1101	3HD2	LEU	69	38.916	43.829	22.374	0.00	0.00
ATOM	1102	C	LEU	69	42.794	43.016	20.427	0.00	0.00
ATOM	1103	O	LEU	69	43.668	42.512	20.955	0.00	0.00
ATOM	1104	N	GLN	70	42.953	44.143	19.951	0.00	0.00
ATOM	1105	H	GLN	70	42.208	44.488	19.514	0.00	0.00
ATOM	1106	CA	GLN	70	44.135	44.940	20.026	0.00	0.00
ATOM	1107	HA	GLN	70	44.895	44.349	20.416	0.00	0.00
ATOM	1108	CB	GLN	70	44.544	45.331	18.665	0.00	0.00
ATOM	1109	HB2	GLN	70	44.281	45.032	18.124	0.00	0.00
ATOM	1110	HB3	GLN	70	44.432	45.950	18.490	0.00	0.00
ATOM	1111	CG	GLN	70	45.454	45.286	18.253	0.00	0.00
ATOM	1112	HG2	GLN	70	45.718	45.581	18.771	0.00	0.00
ATOM	1113	HG3	GLN	70	45.572	44.680	18.400	0.00	0.00
ATOM	1114	CD	GLN	70	45.844	45.666	16.946	0.00	0.00
ATOM	1115	OE1	GLN	70	45.619	45.990	16.401	0.00	0.00

ATOM	1116	NE2	GLN	70	46.451	45.648	16.393	0.00	0.00
ATOM	1117	1HE2	GLN	70	46.649	45.383	16.816	0.00	0.00
ATOM	1118	2HE2	GLN	70	46.703	45.896	15.542	0.00	0.00
ATOM	1119	C	GLN	70	43.952	46.138	20.899	0.00	0.00
ATOM	1120	O	GLN	70	43.159	46.938	20.626	0.00	0.00
ATOM	1121	N	PRO	71	44.676	46.315	21.927	0.00	0.00
ATOM	1122	CD	PRO	71	45.552	45.406	22.410	0.00	0.00
ATOM	1123	HD2	PRO	71	46.377	45.401	21.897	0.00	0.00
ATOM	1124	HD3	PRO	71	45.200	44.449	22.408	0.00	0.00
ATOM	1125	CG	PRO	71	45.800	45.866	23.702	0.00	0.00
ATOM	1126	HG2	PRO	71	46.603	45.819	23.926	0.00	0.00
ATOM	1127	HG3	PRO	71	45.347	45.405	24.207	0.00	0.00
ATOM	1128	CB	PRO	71	45.475	47.112	23.880	0.00	0.00
ATOM	1129	HB2	PRO	71	45.117	47.215	24.695	0.00	0.00
ATOM	1130	HB3	PRO	71	46.252	47.630	23.861	0.00	0.00
ATOM	1131	CA	PRO	71	44.528	47.383	22.833	0.00	0.00
ATOM	1132	HA	PRO	71	43.586	47.325	23.217	0.00	0.00
ATOM	1133	C	PRO	71	44.712	48.751	22.314	0.00	0.00
ATOM	1134	O	PRO	71	44.247	49.658	22.834	0.00	0.00
ATOM	1135	N	SER	72	45.359	48.917	21.278	0.00	0.00
ATOM	1136	H	SER	72	45.751	48.148	20.926	0.00	0.00
ATOM	1137	CA	SER	72	45.585	50.151	20.625	0.00	0.00
ATOM	1138	HA	SER	72	45.557	50.896	21.316	0.00	0.00
ATOM	1139	CB	SER	72	46.908	50.123	20.082	0.00	0.00
ATOM	1140	HB2	SER	72	47.078	50.796	19.575	0.00	0.00
ATOM	1141	HB3	SER	72	47.543	50.127	20.667	0.00	0.00
ATOM	1142	OG	SER	72	47.126	49.240	19.497	0.00	0.00
ATOM	1143	HG	SER	72	47.615	49.091	19.387	0.00	0.00
ATOM	1144	C	SER	72	44.599	50.551	19.591	0.00	0.00
ATOM	1145	O	SER	72	44.714	51.552	19.020	0.00	0.00
ATOM	1146	N	SER	73	43.622	49.801	19.334	0.00	0.00
ATOM	1147	H	SER	73	43.553	49.012	19.850	0.00	0.00
ATOM	1148	CA	SER	73	42.636	50.067	18.343	0.00	0.00
ATOM	1149	HA	SER	73	43.130	50.380	17.478	0.00	0.00
ATOM	1150	CB	SER	73	41.916	48.813	18.004	0.00	0.00
ATOM	1151	HB2	SER	73	42.401	48.240	17.569	0.00	0.00
ATOM	1152	HB3	SER	73	41.649	48.375	18.684	0.00	0.00
ATOM	1153	OG	SER	73	40.979	48.940	17.361	0.00	0.00
ATOM	1154	HG	SER	73	40.774	48.207	16.945	0.00	0.00
ATOM	1155	C	SER	73	41.679	51.151	18.743	0.00	0.00
ATOM	1156	O	SER	73	41.121	51.118	19.775	0.00	0.00
ATOM	1157	N	THR	74	41.435	52.099	17.900	0.00	0.00
ATOM	1158	H	THR	74	41.923	52.076	17.079	0.00	0.00
ATOM	1159	CA	THR	74	40.451	53.148	18.085	0.00	0.00
ATOM	1160	HA	THR	74	40.550	53.546	19.056	0.00	0.00
ATOM	1161	CB	THR	74	40.647	54.256	17.118	0.00	0.00
ATOM	1162	HB	THR	74	40.244	54.358	16.624	0.00	0.00
ATOM	1163	CG2	THR	74	40.679	55.210	17.310	0.00	0.00
ATOM	1164	1HG2	THR	74	40.601	55.447	17.322	0.00	0.00
ATOM	1165	2HG2	THR	74	40.760	55.561	17.309	0.00	0.00
ATOM	1166	3HG2	THR	74	40.688	55.333	17.428	0.00	0.00
ATOM	1167	OG1	THR	74	41.348	54.321	16.640	0.00	0.00
ATOM	1168	HG1	THR	74	41.539	54.521	16.351	0.00	0.00
ATOM	1169	C	THR	74	39.058	52.626	17.972	0.00	0.00
ATOM	1170	O	THR	74	38.209	53.023	18.726	0.00	0.00
ATOM	1171	N	MET	75	38.812	51.677	17.100	0.00	0.00
ATOM	1172	H	MET	75	39.539	51.402	16.508	0.00	0.00
ATOM	1173	CA	MET	75	37.540	50.999	16.988	0.00	0.00
ATOM	1174	HA	MET	75	36.767	51.742	17.008	0.00	0.00
ATOM	1175	CB	MET	75	37.476	50.271	15.661	0.00	0.00
ATOM	1176	HB2	MET	75	38.178	50.181	15.341	0.00	0.00
ATOM	1177	HB3	MET	75	37.209	49.529	15.715	0.00	0.00
ATOM	1178	CG	MET	75	36.835	50.641	14.676	0.00	0.00
ATOM	1179	HG2	MET	75	37.369	50.712	14.144	0.00	0.00
ATOM	1180	HG3	MET	75	36.516	49.989	14.518	0.00	0.00
ATOM	1181	SD	MET	75	35.732	51.941	14.550	0.00	0.00
ATOM	1182	CE	MET	75	36.291	52.829	13.306	0.00	0.00
ATOM	1183	HE1	MET	75	36.429	52.945	13.108	0.00	0.00
ATOM	1184	HE2	MET	75	36.387	53.007	12.987	0.00	0.00
ATOM	1185	HE3	MET	75	36.391	53.070	13.063	0.00	0.00
ATOM	1186	C	MET	75	37.268	50.067	18.151	0.00	0.00
ATOM	1187	O	MET	75	36.132	49.859	18.526	0.00	0.00
ATOM	1188	N	GLY	76	38.296	49.591	18.806	0.00	0.00
ATOM	1189	H	GLY	76	39.201	49.761	18.442	0.00	0.00
ATOM	1190	CA	GLY	76	38.181	48.909	20.069	0.00	0.00
ATOM	1191	HA2	GLY	76	37.570	48.056	19.955	0.00	0.00
ATOM	1192	HA3	GLY	76	39.154	48.595	20.350	0.00	0.00
ATOM	1193	C	GLY	76	37.600	49.754	21.179	0.00	0.00
ATOM	1194	O	GLY	76	36.753	49.297	21.924	0.00	0.00
ATOM	1195	N	GLN	77	37.970	51.021	21.239	0.00	0.00
ATOM	1196	H	GLN	77	38.658	51.336	20.600	0.00	0.00
ATOM	1197	CA	GLN	77	37.423	51.983	22.180	0.00	0.00
ATOM	1198	HA	GLN	77	37.454	51.553	23.160	0.00	0.00
ATOM	1199	CB	GLN	77	38.286	53.236	22.179	0.00	0.00
ATOM	1200	HB2	GLN	77	38.823	53.238	21.717	0.00	0.00
ATOM	1201	HB3	GLN	77	37.982	53.894	22.000	0.00	0.00
ATOM	1202	CG	GLN	77	38.833	53.650	23.044	0.00	0.00
ATOM	1203	HG2	GLN	77	38.834	53.907	23.010	0.00	0.00
ATOM	1204	HG3	GLN	77	38.834	53.691	23.422	0.00	0.00
ATOM	1205	CD	GLN	77	39.412	53.696	23.450	0.00	0.00
ATOM	1206	OE1	GLN	77	39.428	53.601	23.653	0.00	0.00
ATOM	1207	NE2	GLN	77	39.909	53.849	23.583	0.00	0.00
ATOM	1208	1HE2	GLN	77	40.295	53.871	23.841	0.00	0.00
ATOM	1209	2HE2	GLN	77	39.921	53.940	23.436	0.00	0.00
ATOM	1210	C	GLN	77	35.960	52.309	21.900	0.00	0.00
ATOM	1211	O	GLN	77	35.186	52.445	22.824	0.00	0.00
ATOM	1212	N	VAL	78	35.546	52.346	20.645	0.00	0.00
ATOM	1213	H	VAL	78	36.231	52.257	19.933	0.00	0.00
ATOM	1214	CA	VAL	78	34.133	52.453	20.258	0.00	0.00
ATOM	1215	HA	VAL	78	33.706	53.295	20.775	0.00	0.00
ATOM	1216	CB	VAL	78	33.979	52.701	18.758	0.00	0.00
ATOM	1217	HB	VAL	78	34.387	51.873	18.230	0.00	0.00
ATOM	1218	CG1	VAL	78	32.539	52.847	18.345	0.00	0.00
ATOM	1219	1HG1	VAL	78	32.136	52.418	18.207	0.00	0.00
ATOM	1220	2HG1	VAL	78	32.113	53.102	18.642	0.00	0.00

ATOM	1221	3HG1	VAL	78	32.315	53.131	17.855	0.00	0.00
ATOM	1222	CG2	VAL	78	34.699	53.953	18.309	0.00	0.00
ATOM	1223	1HG2	VAL	78	34.793	54.399	18.429	0.00	0.00
ATOM	1224	2HG2	VAL	78	35.128	54.118	18.186	0.00	0.00
ATOM	1225	3HG2	VAL	78	34.706	54.257	17.961	0.00	0.00
ATOM	1226	C	VAL	78	33.357	51.211	20.699	0.00	0.00
ATOM	1227	O	VAL	78	32.278	51.325	21.256	0.00	0.00
ATOM	1228	N	GLY	79	33.933	50.025	20.559	0.00	0.00
ATOM	1229	H	GLY	79	34.805	49.990	20.078	0.00	0.00
ATOM	1230	CA	GLY	79	33.381	48.778	21.085	0.00	0.00
ATOM	1231	HA2	GLY	79	32.419	48.598	20.648	0.00	0.00
ATOM	1232	HA3	GLY	79	34.036	47.976	20.809	0.00	0.00
ATOM	1233	C	GLY	79	33.224	48.757	22.600	0.00	0.00
ATOM	1234	O	GLY	79	32.233	48.250	23.090	0.00	0.00
ATOM	1235	N	ARG	80	34.133	49.366	23.349	0.00	0.00
ATOM	1236	H	ARG	80	34.936	49.710	22.886	0.00	0.00
ATOM	1237	CA	ARG	80	34.034	49.551	24.799	0.00	0.00
ATOM	1238	HA	ARG	80	33.742	48.606	25.231	0.00	0.00
ATOM	1239	CB	ARG	80	35.409	49.940	25.350	0.00	0.00
ATOM	1240	HB2	ARG	80	36.159	49.335	24.896	0.00	0.00
ATOM	1241	HB3	ARG	80	35.632	50.954	25.107	0.00	0.00
ATOM	1242	CG	ARG	80	35.510	49.762	26.843	0.00	0.00
ATOM	1243	HG2	ARG	80	34.824	50.399	27.332	0.00	0.00
ATOM	1244	HG3	ARG	80	35.264	48.765	27.094	0.00	0.00
ATOM	1245	CD	ARG	80	36.893	50.065	27.334	0.00	0.00
ATOM	1246	HD2	ARG	80	37.578	49.500	26.801	0.00	0.00
ATOM	1247	HD3	ARG	80	37.105	51.062	27.155	0.00	0.00
ATOM	1248	NE	ARG	80	37.031	49.787	28.718	0.00	0.00
ATOM	1249	HE	ARG	80	36.577	49.420	29.166	0.00	0.00
ATOM	1250	CZ	ARG	80	37.695	49.951	29.427	0.00	0.00
ATOM	1251	NH1	ARG	80	37.722	49.630	30.613	0.00	0.00
ATOM	1252	1HH1	ARG	80	37.238	49.262	30.978	0.00	0.00
ATOM	1253	2HH1	ARG	80	38.218	49.737	31.140	0.00	0.00
ATOM	1254	NH2	ARG	80	38.339	50.420	29.005	0.00	0.00
ATOM	1255	1HH2	ARG	80	38.338	50.704	28.110	0.00	0.00
ATOM	1256	2HH2	ARG	80	38.809	50.524	29.599	0.00	0.00
ATOM	1257	C	ARG	80	32.961	50.555	25.195	0.00	0.00
ATOM	1258	O	ARG	80	32.210	50.303	26.112	0.00	0.00
ATOM	1259	N	GLN	81	32.821	51.645	24.461	0.00	0.00
ATOM	1260	H	GLN	81	33.491	51.798	23.746	0.00	0.00
ATOM	1261	CA	GLN	81	31.758	52.631	24.631	0.00	0.00
ATOM	1262	HA	GLN	81	31.728	52.909	25.672	0.00	0.00
ATOM	1263	CB	GLN	81	32.113	53.872	23.817	0.00	0.00
ATOM	1264	HB2	GLN	81	33.013	54.068	23.867	0.00	0.00
ATOM	1265	HB3	GLN	81	31.949	53.764	22.917	0.00	0.00
ATOM	1266	CG	GLN	81	31.522	55.020	24.142	0.00	0.00
ATOM	1267	HG2	GLN	81	30.617	54.879	24.060	0.00	0.00
ATOM	1268	HG3	GLN	81	31.676	55.117	25.045	0.00	0.00
ATOM	1269	CD	GLN	81	31.932	56.234	23.388	0.00	0.00
ATOM	1270	OE1	GLN	81	32.482	56.344	22.581	0.00	0.00
ATOM	1271	NE2	GLN	81	31.681	57.199	23.605	0.00	0.00
ATOM	1272	1HE2	GLN	81	31.962	57.985	23.103	0.00	0.00
ATOM	1273	2HE2	GLN	81	31.226	57.142	24.254	0.00	0.00
ATOM	1274	C	GLN	81	30.375	52.069	24.266	0.00	0.00
ATOM	1275	O	GLN	81	29.395	52.435	24.860	0.00	0.00
ATOM	1276	N	LEU	82	30.285	51.135	23.338	0.00	0.00
ATOM	1277	H	LEU	82	31.096	50.960	22.801	0.00	0.00
ATOM	1278	CA	LEU	82	29.070	50.388	23.022	0.00	0.00
ATOM	1279	HA	LEU	82	28.246	51.088	23.013	0.00	0.00
ATOM	1280	CB	LEU	82	29.222	49.790	21.617	0.00	0.00
ATOM	1281	HB2	LEU	82	29.507	50.570	20.941	0.00	0.00
ATOM	1282	HB3	LEU	82	30.021	49.077	21.633	0.00	0.00
ATOM	1283	CG	LEU	82	27.990	49.095	21.050	0.00	0.00
ATOM	1284	HG	LEU	82	27.677	48.328	21.718	0.00	0.00
ATOM	1285	CD1	LEU	82	26.839	50.041	20.854	0.00	0.00
ATOM	1286	1HD1	LEU	82	26.529	50.250	21.007	0.00	0.00
ATOM	1287	2HD1	LEU	82	26.680	50.401	20.742	0.00	0.00
ATOM	1288	3HD1	LEU	82	26.454	50.153	20.680	0.00	0.00
ATOM	1289	CD2	LEU	82	28.320	48.471	19.718	0.00	0.00
ATOM	1290	1HD2	LEU	82	28.514	48.282	19.436	0.00	0.00
ATOM	1291	2HD2	LEU	82	28.387	48.427	19.347	0.00	0.00
ATOM	1292	3HD2	LEU	82	28.309	48.231	19.403	0.00	0.00
ATOM	1293	C	LEU	82	28.751	49.329	24.088	0.00	0.00
ATOM	1294	O	LEU	82	27.595	49.076	24.369	0.00	0.00
ATOM	1295	N	ALA	83	29.750	48.738	24.728	0.00	0.00
ATOM	1296	H	ALA	83	30.680	48.946	24.439	0.00	0.00
ATOM	1297	CA	ALA	83	29.569	47.762	25.789	0.00	0.00
ATOM	1298	HA	ALA	83	28.922	46.986	25.412	0.00	0.00
ATOM	1299	CB	ALA	83	30.911	47.113	26.119	0.00	0.00
ATOM	1300	HB1	ALA	83	31.024	46.652	26.430	0.00	0.00
ATOM	1301	HB2	ALA	83	31.283	46.884	25.780	0.00	0.00
ATOM	1302	HB3	ALA	83	31.375	47.309	26.384	0.00	0.00
ATOM	1303	C	ALA	83	28.873	48.342	27.023	0.00	0.00
ATOM	1304	O	ALA	83	28.016	47.683	27.583	0.00	0.00
ATOM	1305	N	ILE	84	29.132	49.590	27.398	0.00	0.00
ATOM	1306	H	ILE	84	29.845	50.088	26.918	0.00	0.00
ATOM	1307	CA	ILE	84	28.402	50.259	28.488	0.00	0.00
ATOM	1308	HA	ILE	84	28.322	49.542	29.292	0.00	0.00
ATOM	1309	CB	ILE	84	29.152	51.460	29.070	0.00	0.00
ATOM	1310	HB	ILE	84	28.551	51.866	29.858	0.00	0.00
ATOM	1311	CG2	ILE	84	30.447	51.004	29.702	0.00	0.00
ATOM	1312	1HG2	ILE	84	30.711	51.170	30.158	0.00	0.00
ATOM	1313	2HG2	ILE	84	30.612	50.526	29.908	0.00	0.00
ATOM	1314	3HG2	ILE	84	30.965	50.991	29.531	0.00	0.00
ATOM	1315	CG1	ILE	84	29.388	52.568	28.067	0.00	0.00
ATOM	1316	ZHG1	ILE	84	30.073	52.290	27.429	0.00	0.00
ATOM	1317	3HG1	ILE	84	28.569	52.760	27.557	0.00	0.00
ATOM	1318	CD1	ILE	84	29.809	53.827	28.576	0.00	0.00
ATOM	1319	1HD1	ILE	84	29.934	54.173	28.600	0.00	0.00
ATOM	1320	2HD1	ILE	84	29.816	54.159	28.716	0.00	0.00
ATOM	1321	3HD1	ILE	84	29.961	54.070	28.758	0.00	0.00
ATOM	1322	C	ILE	84	26.943	50.602	28.139	0.00	0.00
ATOM	1323	O	ILE	84	26.150	50.797	29.030	0.00	0.00
ATOM	1324	N	ILE	85	26.560	50.602	26.872	0.00	0.00
ATOM	1325	H	ILE	85	27.253	50.467	26.183	0.00	0.00

ATOM	1326	CA	ILE	85	25.163	50.664	26.424	0.00	0.00
ATOM	1327	HA	ILE	85	24.597	51.275	27.112	0.00	0.00
ATOM	1328	CB	ILE	85	25.061	51.321	25.036	0.00	0.00
ATOM	1329	HB	ILE	85	25.583	50.714	24.348	0.00	0.00
ATOM	1330	CG2	ILE	85	23.636	51.398	24.567	0.00	0.00
ATOM	1331	1HG2	ILE	85	23.220	51.403	24.656	0.00	0.00
ATOM	1332	2HG2	ILE	85	23.294	51.223	24.328	0.00	0.00
ATOM	1333	3HG2	ILE	85	23.348	51.604	24.350	0.00	0.00
ATOM	1334	CG1	ILE	85	25.688	52.691	24.979	0.00	0.00
ATOM	1335	2HG1	ILE	85	25.962	52.879	25.364	0.00	0.00
ATOM	1336	3HG1	ILE	85	26.090	52.881	24.635	0.00	0.00
ATOM	1337	CD1	ILE	85	25.479	53.590	24.840	0.00	0.00
ATOM	1338	1HD1	ILE	85	25.405	53.947	24.930	0.00	0.00
ATOM	1339	2HD1	ILE	85	25.630	53.849	24.753	0.00	0.00
ATOM	1340	3HD1	ILE	85	25.272	53.640	24.724	0.00	0.00
ATOM	1341	C	ILE	85	24.525	49.272	26.463	0.00	0.00
ATOM	1342	O	ILE	85	23.396	49.129	26.903	0.00	0.00
ATOM	1343	N	GLY	86	25.260	48.228	26.094	0.00	0.00
ATOM	1344	H	GLY	86	26.159	48.404	25.705	0.00	0.00
ATOM	1345	CA	GLY	86	24.853	46.832	26.277	0.00	0.00
ATOM	1346	HA2	GLY	86	23.933	46.648	25.749	0.00	0.00
ATOM	1347	HA3	GLY	86	25.610	46.202	25.840	0.00	0.00
ATOM	1348	C	GLY	86	24.673	46.426	27.743	0.00	0.00
ATOM	1349	O	GLY	86	23.812	45.631	28.063	0.00	0.00
ATOM	1350	N	ASP	87	25.419	47.021	28.658	0.00	0.00
ATOM	1351	H	ASP	87	26.181	47.574	28.341	0.00	0.00
ATOM	1352	CA	ASP	87	25.230	46.907	30.107	0.00	0.00
ATOM	1353	HA	ASP	87	25.126	45.861	30.355	0.00	0.00
ATOM	1354	CB	ASP	87	26.475	47.435	30.808	0.00	0.00
ATOM	1355	HB2	ASP	87	27.333	46.912	30.443	0.00	0.00
ATOM	1356	HB3	ASP	87	26.600	48.465	30.566	0.00	0.00
ATOM	1357	CG	ASP	87	26.418	47.287	32.301	0.00	0.00
ATOM	1358	OD1	ASP	87	26.427	46.195	32.796	0.00	0.00
ATOM	1359	OD2	ASP	87	26.388	48.263	32.989	0.00	0.00
ATOM	1360	C	ASP	87	23.972	47.637	30.598	0.00	0.00
ATOM	1361	O	ASP	87	23.387	47.249	31.582	0.00	0.00
ATOM	1362	N	ASP	88	23.507	48.660	29.906	0.00	0.00
ATOM	1363	H	ASP	88	24.002	48.939	29.098	0.00	0.00
ATOM	1364	CA	ASP	88	22.295	49.401	30.261	0.00	0.00
ATOM	1365	HA	ASP	88	22.275	49.488	31.338	0.00	0.00
ATOM	1366	CB	ASP	88	22.373	50.811	29.692	0.00	0.00
ATOM	1367	HB2	ASP	88	23.348	51.209	29.864	0.00	0.00
ATOM	1368	HB3	ASP	88	22.216	50.789	28.638	0.00	0.00
ATOM	1369	CG	ASP	88	21.380	51.754	30.335	0.00	0.00
ATOM	1370	OD1	ASP	88	21.140	52.049	31.025	0.00	0.00
ATOM	1371	OD2	ASP	88	20.853	52.242	30.156	0.00	0.00
ATOM	1372	C	ASP	88	21.006	48.679	29.846	0.00	0.00
ATOM	1373	O	ASP	88	20.012	48.782	30.527	0.00	0.00
ATOM	1374	N	ILE	89	21.024	47.880	28.789	0.00	0.00
ATOM	1375	H	ILE	89	21.849	47.875	28.240	0.00	0.00
ATOM	1376	CA	ILE	89	19.927	46.962	28.434	0.00	0.00
ATOM	1377	HA	ILE	89	19.000	47.437	28.723	0.00	0.00
ATOM	1378	CB	ILE	89	19.815	46.697	26.923	0.00	0.00
ATOM	1379	HB	ILE	89	18.968	46.052	26.780	0.00	0.00
ATOM	1380	CG2	ILE	89	19.503	47.982	26.178	0.00	0.00
ATOM	1381	1HG2	ILE	89	19.786	48.298	25.753	0.00	0.00
ATOM	1382	2HG2	ILE	89	19.051	48.086	25.848	0.00	0.00
ATOM	1383	3HG2	ILE	89	19.417	48.493	26.383	0.00	0.00
ATOM	1384	CG1	ILE	89	21.026	45.995	26.330	0.00	0.00
ATOM	1385	2HG1	ILE	89	21.737	46.621	26.222	0.00	0.00
ATOM	1386	3HG1	ILE	89	21.341	45.313	26.924	0.00	0.00
ATOM	1387	CD1	ILE	89	20.897	45.353	25.088	0.00	0.00
ATOM	1388	1HD1	ILE	89	21.050	45.213	24.785	0.00	0.00
ATOM	1389	2HD1	ILE	89	20.774	45.053	24.868	0.00	0.00
ATOM	1390	3HD1	ILE	89	20.792	45.310	24.719	0.00	0.00
ATOM	1391	C	ILE	89	19.948	45.654	29.232	0.00	0.00
ATOM	1392	O	ILE	89	19.018	44.868	29.131	0.00	0.00
ATOM	1393	N	ASN	90	20.972	45.408	30.051	0.00	0.00
ATOM	1394	H	ASN	90	21.708	46.074	30.090	0.00	0.00
ATOM	1395	CA	ASN	90	21.103	44.193	30.854	0.00	0.00
ATOM	1396	HA	ASN	90	20.968	43.352	30.200	0.00	0.00
ATOM	1397	CB	ASN	90	22.521	44.100	31.408	0.00	0.00
ATOM	1398	HB2	ASN	90	23.217	44.371	30.645	0.00	0.00
ATOM	1399	HB3	ASN	90	22.637	44.785	32.213	0.00	0.00
ATOM	1400	CG	ASN	90	22.887	42.729	31.882	0.00	0.00
ATOM	1401	OD1	ASN	90	22.628	41.763	31.340	0.00	0.00
ATOM	1402	ND2	ASN	90	23.528	42.596	32.885	0.00	0.00
ATOM	1403	1HD2	ASN	90	23.805	41.704	33.183	0.00	0.00
ATOM	1404	2HD2	ASN	90	23.738	43.378	33.347	0.00	0.00
ATOM	1405	C	ASN	90	20.030	44.065	31.943	0.00	0.00
ATOM	1406	O	ASN	90	19.804	43.021	32.431	0.00	0.00
ATOM	1407	N	ARG	91	19.317	45.107	32.282	0.00	0.00
ATOM	1408	H	ARG	91	19.570	45.914	31.842	0.00	0.00
ATOM	1409	CA	ARG	91	18.069	45.111	33.049	0.00	0.00
ATOM	1410	HA	ARG	91	17.942	44.130	33.481	0.00	0.00
ATOM	1411	CB	ARG	91	18.155	46.099	34.214	0.00	0.00
ATOM	1412	HB2	ARG	91	17.309	45.942	34.853	0.00	0.00
ATOM	1413	HB3	ARG	91	19.039	45.884	34.780	0.00	0.00
ATOM	1414	CG	ARG	91	18.167	47.564	33.805	0.00	0.00
ATOM	1415	HG2	ARG	91	18.859	47.706	33.016	0.00	0.00
ATOM	1416	HG3	ARG	91	17.204	47.834	33.476	0.00	0.00
ATOM	1417	CD	ARG	91	18.557	48.464	34.942	0.00	0.00
ATOM	1418	HD2	ARG	91	17.894	48.278	35.743	0.00	0.00
ATOM	1419	HD3	ARG	91	19.530	48.228	35.262	0.00	0.00
ATOM	1420	NE	ARG	91	18.493	49.874	34.586	0.00	0.00
ATOM	1421	HE	ARG	91	17.730	50.380	34.909	0.00	0.00
ATOM	1422	CZ	ARG	91	19.323	50.557	33.869	0.00	0.00
ATOM	1423	NH1	ARG	91	20.391	50.081	33.411	0.00	0.00
ATOM	1424	1HH1	ARG	91	20.638	49.149	33.578	0.00	0.00
ATOM	1425	2HH1	ARG	91	20.928	50.650	32.834	0.00	0.00
ATOM	1426	NH2	ARG	91	19.084	51.765	33.577	0.00	0.00
ATOM	1427	1HH2	ARG	91	18.279	52.179	33.900	0.00	0.00
ATOM	1428	2HH2	ARG	91	19.699	52.234	32.984	0.00	0.00
ATOM	1429	C	ARG	91	16.862	45.344	32.143	0.00	0.00
ATOM	1430	O	ARG	91	16.938	46.103	31.194	0.00	0.00

ATOM	1431	N	ARG	92	15.751	44.703	32.460	0.00	0.00
ATOM	1432	H	ARG	92	15.821	44.125	33.262	0.00	0.00
ATOM	1433	CA	ARG	92	14.461	44.667	31.747	0.00	0.00
ATOM	1434	HA	ARG	92	13.838	43.992	32.299	0.00	0.00
ATOM	1435	CB	ARG	92	13.766	46.016	31.783	0.00	0.00
ATOM	1436	HB2	ARG	92	14.290	46.699	31.164	0.00	0.00
ATOM	1437	HB3	ARG	92	12.785	45.898	31.380	0.00	0.00
ATOM	1438	CG	ARG	92	13.644	46.616	33.160	0.00	0.00
ATOM	1439	HG2	ARG	92	13.245	45.897	33.804	0.00	0.00
ATOM	1440	HG3	ARG	92	14.597	46.895	33.517	0.00	0.00
ATOM	1441	CD	ARG	92	12.756	47.814	33.209	0.00	0.00
ATOM	1442	HD2	ARG	92	11.814	47.515	32.931	0.00	0.00
ATOM	1443	HD3	ARG	92	12.699	48.180	34.189	0.00	0.00
ATOM	1444	NE	ARG	92	13.168	48.852	32.379	0.00	0.00
ATOM	1445	HE	ARG	92	12.965	48.858	31.715	0.00	0.00
ATOM	1446	CZ	ARG	92	13.740	49.820	32.430	0.00	0.00
ATOM	1447	NH1	ARG	92	14.034	49.995	33.259	0.00	0.00
ATOM	1448	1HH1	ARG	92	13.808	49.415	33.925	0.00	0.00
ATOM	1449	2HH1	ARG	92	14.444	50.759	33.256	0.00	0.00
ATOM	1450	NH2	ARG	92	14.036	50.655	31.633	0.00	0.00
ATOM	1451	1HH2	ARG	92	13.848	50.549	30.966	0.00	0.00
ATOM	1452	2HH2	ARG	92	14.474	51.371	31.666	0.00	0.00
ATOM	1453	C	ARG	92	14.453	44.095	30.335	0.00	0.00
ATOM	1454	O	ARG	92	13.521	43.469	29.989	0.00	0.00
ATOM	1455	N	TYR	93	15.431	44.291	29.518	0.00	0.00
ATOM	1456	H	TYR	93	16.156	44.828	29.857	0.00	0.00
ATOM	1457	CA	TYR	93	15.383	43.999	28.081	0.00	0.00
ATOM	1458	HA	TYR	93	14.365	43.762	27.803	0.00	0.00
ATOM	1459	CB	TYR	93	15.779	45.252	27.305	0.00	0.00
ATOM	1460	HB2	TYR	93	16.819	45.455	27.489	0.00	0.00
ATOM	1461	HB3	TYR	93	15.675	45.044	26.256	0.00	0.00
ATOM	1462	CG	TYR	93	14.974	46.497	27.627	0.00	0.00
ATOM	1463	CD1	TYR	93	15.607	47.642	28.062	0.00	0.00
ATOM	1464	HD1	TYR	93	16.655	47.641	28.165	0.00	0.00
ATOM	1465	CE1	TYR	93	14.867	48.781	28.393	0.00	0.00
ATOM	1466	HE1	TYR	93	15.344	49.651	28.744	0.00	0.00
ATOM	1467	CZ	TYR	93	13.490	48.784	28.280	0.00	0.00
ATOM	1468	OH	TYR	93	12.788	49.877	28.629	0.00	0.00
ATOM	1469	HH	TYR	93	11.868	49.752	28.503	0.00	0.00
ATOM	1470	CE2	TYR	93	12.854	47.644	27.835	0.00	0.00
ATOM	1471	HE2	TYR	93	11.805	47.636	27.749	0.00	0.00
ATOM	1472	CD2	TYR	93	13.596	46.504	27.514	0.00	0.00
ATOM	1473	HD2	TYR	93	13.105	45.621	27.203	0.00	0.00
ATOM	1474	C	TYR	93	16.211	42.786	27.647	0.00	0.00
ATOM	1475	O	TYR	93	15.751	42.011	26.831	0.00	0.00
ATOM	1476	N	ASP	94	17.384	42.561	28.212	0.00	0.00
ATOM	1477	H	ASP	94	17.738	43.248	28.838	0.00	0.00
ATOM	1478	CA	ASP	94	18.243	41.426	27.868	0.00	0.00
ATOM	1479	HA	ASP	94	18.399	41.434	26.802	0.00	0.00
ATOM	1480	CB	ASP	94	19.591	41.619	28.543	0.00	0.00
ATOM	1481	HB2	ASP	94	19.995	42.559	28.222	0.00	0.00
ATOM	1482	HB3	ASP	94	19.448	41.656	29.604	0.00	0.00
ATOM	1483	CG	ASP	94	20.603	40.539	28.222	0.00	0.00
ATOM	1484	OD1	ASP	94	21.358	40.687	27.282	0.00	0.00
ATOM	1485	OD2	ASP	94	20.702	39.566	28.942	0.00	0.00
ATOM	1486	C	ASP	94	17.616	40.072	28.220	0.00	0.00
ATOM	1487	O	ASP	94	17.777	39.106	27.496	0.00	0.00
ATOM	1488	N	SER	95	16.829	40.009	29.278	0.00	0.00
ATOM	1489	H	SER	95	16.735	40.834	29.821	0.00	0.00
ATOM	1490	CA	SER	95	16.044	38.839	29.660	0.00	0.00
ATOM	1491	HA	SER	95	16.699	37.995	29.708	0.00	0.00
ATOM	1492	CB	SER	95	15.446	39.025	31.031	0.00	0.00
ATOM	1493	HB2	SER	95	14.897	39.400	31.165	0.00	0.00
ATOM	1494	HB3	SER	95	15.218	38.505	31.372	0.00	0.00
ATOM	1495	OG	SER	95	15.886	39.369	31.723	0.00	0.00
ATOM	1496	HG	SER	95	16.009	39.324	31.904	0.00	0.00
ATOM	1497	C	SER	95	14.948	38.483	28.670	0.00	0.00
ATOM	1498	O	SER	95	14.486	37.371	28.670	0.00	0.00
ATOM	1499	N	GLU	96	14.547	39.381	27.789	0.00	0.00
ATOM	1500	H	GLU	96	14.976	40.269	27.797	0.00	0.00
ATOM	1501	CA	GLU	96	13.556	39.107	26.753	0.00	0.00
ATOM	1502	HA	GLU	96	12.754	38.542	27.203	0.00	0.00
ATOM	1503	CB	GLU	96	12.981	40.424	26.237	0.00	0.00
ATOM	1504	HB2	GLU	96	13.009	41.162	27.012	0.00	0.00
ATOM	1505	HB3	GLU	96	13.588	40.784	25.433	0.00	0.00
ATOM	1506	CG	GLU	96	11.547	40.307	25.745	0.00	0.00
ATOM	1507	HG2	GLU	96	11.271	41.227	25.277	0.00	0.00
ATOM	1508	HG3	GLU	96	11.488	39.546	25.002	0.00	0.00
ATOM	1509	CD	GLU	96	10.575	40.021	26.863	0.00	0.00
ATOM	1510	OE1	GLU	96	10.259	39.977	27.442	0.00	0.00
ATOM	1511	OE2	GLU	96	10.108	39.848	27.186	0.00	0.00
ATOM	1512	C	GLU	96	14.123	38.258	25.619	0.00	0.00
ATOM	1513	O	GLU	96	13.418	37.421	25.082	0.00	0.00
ATOM	1514	N	PHE	97	15.412	38.381	25.298	0.00	0.00
ATOM	1515	H	PHE	97	15.958	39.053	25.785	0.00	0.00
ATOM	1516	CA	PHE	97	16.064	37.579	24.263	0.00	0.00
ATOM	1517	HA	PHE	97	15.518	37.706	23.344	0.00	0.00
ATOM	1518	CB	PHE	97	17.493	38.069	24.032	0.00	0.00
ATOM	1519	HB2	PHE	97	18.071	37.806	24.894	0.00	0.00
ATOM	1520	HB3	PHE	97	17.907	37.522	23.209	0.00	0.00
ATOM	1521	CG	PHE	97	17.685	39.541	23.746	0.00	0.00
ATOM	1522	CD1	PHE	97	16.882	40.207	22.834	0.00	0.00
ATOM	1523	HD1	PHE	97	16.111	39.687	22.322	0.00	0.00
ATOM	1524	CE1	PHE	97	17.071	41.568	22.592	0.00	0.00
ATOM	1525	HE1	PHE	97	16.456	42.080	21.899	0.00	0.00
ATOM	1526	CZ	PHE	97	18.052	42.270	23.270	0.00	0.00
ATOM	1527	HZ	PHE	97	18.183	43.314	23.092	0.00	0.00
ATOM	1528	CE2	PHE	97	18.877	41.605	24.158	0.00	0.00
ATOM	1529	HE2	PHE	97	19.638	42.133	24.676	0.00	0.00
ATOM	1530	CD2	PHE	97	18.699	40.243	24.389	0.00	0.00
ATOM	1531	HD2	PHE	97	19.331	39.742	25.078	0.00	0.00
ATOM	1532	C	PHE	97	16.054	36.082	24.573	0.00	0.00
ATOM	1533	O	PHE	97	16.031	35.273	23.668	0.00	0.00
ATOM	1534	N	GLN	98	15.972	35.696	25.835	0.00	0.00
ATOM	1535	H	GLN	98	15.971	36.402	26.526	0.00	0.00

ATOM	1536	CA	GLN	98	15.848	34.303	26.268	0.00	0.00
ATOM	1537	HA	GLN	98	16.643	33.745	25.818	0.00	0.00
ATOM	1538	CB	GLN	98	16.000	34.214	27.773	0.00	0.00
ATOM	1539	HB2	GLN	98	15.570	34.560	28.160	0.00	0.00
ATOM	1540	HB3	GLN	98	15.919	33.605	28.073	0.00	0.00
ATOM	1541	CG	GLN	98	16.827	34.455	28.361	0.00	0.00
ATOM	1542	HG2	GLN	98	17.340	34.192	28.149	0.00	0.00
ATOM	1543	HG3	GLN	98	16.726	35.025	28.098	0.00	0.00
ATOM	1544	CD	GLN	98	17.135	34.300	29.609	0.00	0.00
ATOM	1545	OE1	GLN	98	16.935	34.039	30.152	0.00	0.00
ATOM	1546	NE2	GLN	98	17.628	34.457	30.127	0.00	0.00
ATOM	1547	1HE2	GLN	98	17.845	34.343	30.946	0.00	0.00
ATOM	1548	2HE2	GLN	98	17.794	34.684	29.714	0.00	0.00
ATOM	1549	C	GLN	98	14.539	33.651	25.818	0.00	0.00
ATOM	1550	O	GLN	98	14.442	32.465	25.807	0.00	0.00
ATOM	1551	N	THR	99	13.548	34.406	25.404	0.00	0.00
ATOM	1552	H	THR	99	13.676	35.379	25.459	0.00	0.00
ATOM	1553	CA	THR	99	12.298	33.913	24.818	0.00	0.00
ATOM	1554	HA	THR	99	12.087	32.956	25.255	0.00	0.00
ATOM	1555	CB	THR	99	11.120	34.815	25.135	0.00	0.00
ATOM	1556	HB	THR	99	10.236	34.328	24.796	0.00	0.00
ATOM	1557	CG2	THR	99	10.970	35.101	26.590	0.00	0.00
ATOM	1558	1HG2	THR	99	10.896	35.254	26.948	0.00	0.00
ATOM	1559	2HG2	THR	99	10.858	35.106	26.958	0.00	0.00
ATOM	1560	3HG2	THR	99	11.011	35.140	26.925	0.00	0.00
ATOM	1561	OG1	THR	99	11.207	36.031	24.494	0.00	0.00
ATOM	1562	HG1	THR	99	11.904	36.507	24.778	0.00	0.00
ATOM	1563	C	THR	99	12.381	33.663	23.320	0.00	0.00
ATOM	1564	O	THR	99	11.440	33.166	22.742	0.00	0.00
ATOM	1565	N	MET	100	13.496	33.998	22.694	0.00	0.00
ATOM	1566	H	MET	100	14.202	34.407	23.252	0.00	0.00
ATOM	1567	CA	MET	100	13.750	33.899	21.259	0.00	0.00
ATOM	1568	HA	MET	100	12.904	33.455	20.786	0.00	0.00
ATOM	1569	CB	MET	100	13.915	35.283	20.691	0.00	0.00
ATOM	1570	HB2	MET	100	14.655	35.567	20.856	0.00	0.00
ATOM	1571	HB3	MET	100	13.856	35.294	19.872	0.00	0.00
ATOM	1572	CG	MET	100	13.172	36.294	20.978	0.00	0.00
ATOM	1573	HG2	MET	100	12.504	36.083	20.738	0.00	0.00
ATOM	1574	HG3	MET	100	13.153	36.224	21.731	0.00	0.00
ATOM	1575	SD	MET	100	13.356	37.955	20.545	0.00	0.00
ATOM	1576	CE	MET	100	12.226	38.735	21.557	0.00	0.00
ATOM	1577	HE1	MET	100	11.923	38.882	21.716	0.00	0.00
ATOM	1578	HE2	MET	100	12.008	38.838	21.826	0.00	0.00
ATOM	1579	HE3	MET	100	12.060	38.961	21.740	0.00	0.00
ATOM	1580	C	MET	100	14.947	33.026	20.908	0.00	0.00
ATOM	1581	O	MET	100	14.936	32.356	19.904	0.00	0.00
ATOM	1582	N	LEU	101	15.980	33.004	21.725	0.00	0.00
ATOM	1583	H	LEU	101	15.931	33.580	22.521	0.00	0.00
ATOM	1584	CA	LEU	101	17.243	32.324	21.452	0.00	0.00
ATOM	1585	HA	LEU	101	17.536	32.571	20.453	0.00	0.00
ATOM	1586	CB	LEU	101	18.295	32.839	22.427	0.00	0.00
ATOM	1587	HB2	LEU	101	17.935	33.082	23.205	0.00	0.00
ATOM	1588	HB3	LEU	101	18.883	32.212	22.658	0.00	0.00
ATOM	1589	CG	LEU	101	19.035	33.852	22.101	0.00	0.00
ATOM	1590	HG	LEU	101	18.423	34.181	21.885	0.00	0.00
ATOM	1591	CD1	LEU	101	19.728	34.429	22.796	0.00	0.00
ATOM	1592	1HD1	LEU	101	19.850	34.486	23.149	0.00	0.00
ATOM	1593	2HD1	LEU	101	19.730	34.802	22.896	0.00	0.00
ATOM	1594	3HD1	LEU	101	20.095	34.428	22.849	0.00	0.00
ATOM	1595	CD2	LEU	101	19.971	33.897	21.408	0.00	0.00
ATOM	1596	1HD2	LEU	101	19.775	33.628	20.815	0.00	0.00
ATOM	1597	2HD2	LEU	101	20.374	34.658	21.241	0.00	0.00
ATOM	1598	3HD2	LEU	101	20.444	33.443	21.651	0.00	0.00
ATOM	1599	C	LEU	101	17.171	30.801	21.490	0.00	0.00
ATOM	1600	O	LEU	101	18.015	30.152	20.938	0.00	0.00
ATOM	1601	N	GLN	102	16.158	30.215	22.075	0.00	0.00
ATOM	1602	H	GLN	102	15.478	30.799	22.482	0.00	0.00
ATOM	1603	CA	GLN	102	15.935	28.777	22.111	0.00	0.00
ATOM	1604	HA	GLN	102	16.894	28.316	22.250	0.00	0.00
ATOM	1605	CB	GLN	102	15.107	28.387	23.334	0.00	0.00
ATOM	1606	HB2	GLN	102	15.290	27.350	23.512	0.00	0.00
ATOM	1607	HB3	GLN	102	15.480	28.918	24.181	0.00	0.00
ATOM	1608	CG	GLN	102	13.599	28.556	23.282	0.00	0.00
ATOM	1609	HG2	GLN	102	13.213	28.064	22.448	0.00	0.00
ATOM	1610	HG3	GLN	102	13.191	28.078	24.124	0.00	0.00
ATOM	1611	CD	GLN	102	13.099	29.947	23.283	0.00	0.00
ATOM	1612	OE1	GLN	102	13.645	30.830	22.847	0.00	0.00
ATOM	1613	NE2	GLN	102	12.038	30.190	23.751	0.00	0.00
ATOM	1614	1HE2	GLN	102	11.734	31.097	23.722	0.00	0.00
ATOM	1615	2HE2	GLN	102	11.567	29.484	24.124	0.00	0.00
ATOM	1616	C	GLN	102	15.385	28.202	20.812	0.00	0.00
ATOM	1617	O	GLN	102	15.407	27.022	20.625	0.00	0.00
ATOM	1618	N	HIP	103	14.923	29.016	19.891	0.00	0.00
ATOM	1619	H	HIP	103	14.921	29.973	20.108	0.00	0.00
ATOM	1620	CA	HIP	103	14.367	28.598	18.603	0.00	0.00
ATOM	1621	HA	HIP	103	13.928	27.623	18.733	0.00	0.00
ATOM	1622	CB	HIP	103	13.256	29.554	18.187	0.00	0.00
ATOM	1623	HB2	HIP	103	13.670	30.534	18.077	0.00	0.00
ATOM	1624	HB3	HIP	103	12.866	29.263	17.235	0.00	0.00
ATOM	1625	CG	HIP	103	12.114	29.618	19.146	0.00	0.00
ATOM	1626	ND1	HIP	103	11.315	28.609	19.509	0.00	0.00
ATOM	1627	HD1	HIP	103	11.376	27.705	19.165	0.00	0.00
ATOM	1628	CE1	HIP	103	10.406	29.055	20.353	0.00	0.00
ATOM	1629	HE1	HIP	103	9.637	28.499	20.791	0.00	0.00
ATOM	1630	NE2	HIP	103	10.603	30.321	20.538	0.00	0.00
ATOM	1631	HE2	HIP	103	10.057	30.899	21.101	0.00	0.00
ATOM	1632	CD2	HIP	103	11.671	30.691	19.791	0.00	0.00
ATOM	1633	HD2	HIP	103	12.077	31.643	19.717	0.00	0.00
ATOM	1634	C	HIP	103	15.412	28.408	17.497	0.00	0.00
ATOM	1635	O	HIP	103	15.070	28.249	16.372	0.00	0.00
ATOM	1636	N	LEU	104	16.674	28.409	17.803	0.00	0.00
ATOM	1637	H	LEU	104	16.874	28.508	18.740	0.00	0.00
ATOM	1638	CA	LEU	104	17.794	28.148	16.903	0.00	0.00
ATOM	1639	HA	LEU	104	17.416	27.629	16.043	0.00	0.00
ATOM	1640	CB	LEU	104	18.373	29.466	16.389	0.00	0.00

ATOM	1641	HB2	LEU	104	19.085	29.247	15.627	0.00	0.00
ATOM	1642	HB3	LEU	104	17.581	29.990	15.913	0.00	0.00
ATOM	1643	CG	LEU	104	19.010	30.396	17.400	0.00	0.00
ATOM	1644	HG	LEU	104	18.654	30.268	18.249	0.00	0.00
ATOM	1645	CD1	LEU	104	20.332	30.287	17.524	0.00	0.00
ATOM	1646	1HD1	LEU	104	20.613	30.062	17.624	0.00	0.00
ATOM	1647	2HD1	LEU	104	20.649	30.282	17.345	0.00	0.00
ATOM	1648	3HD1	LEU	104	20.697	30.447	17.716	0.00	0.00
ATOM	1649	CD2	LEU	104	18.838	31.705	17.145	0.00	0.00
ATOM	1650	1HD2	LEU	104	18.944	32.232	17.622	0.00	0.00
ATOM	1651	2HD2	LEU	104	19.158	32.022	16.696	0.00	0.00
ATOM	1652	3HD2	LEU	104	18.272	31.810	16.939	0.00	0.00
ATOM	1653	C	LEU	104	18.842	27.234	17.526	0.00	0.00
ATOM	1654	O	LEU	104	18.924	27.119	18.723	0.00	0.00
ATOM	1655	N	GLN	105	19.654	26.601	16.708	0.00	0.00
ATOM	1656	H	GLN	105	19.502	26.720	15.747	0.00	0.00
ATOM	1657	CA	GLN	105	20.805	25.797	17.084	0.00	0.00
ATOM	1658	HA	GLN	105	20.986	25.952	18.116	0.00	0.00
ATOM	1659	CB	GLN	105	20.498	24.341	16.905	0.00	0.00
ATOM	1660	HB2	GLN	105	20.634	24.041	16.891	0.00	0.00
ATOM	1661	HB3	GLN	105	20.339	24.046	17.033	0.00	0.00
ATOM	1662	CG	GLN	105	20.228	23.653	16.596	0.00	0.00
ATOM	1663	HG2	GLN	105	20.109	23.904	16.619	0.00	0.00
ATOM	1664	HG3	GLN	105	20.349	23.921	16.481	0.00	0.00
ATOM	1665	CD	GLN	105	19.946	22.260	16.409	0.00	0.00
ATOM	1666	OE1	GLN	105	19.896	21.666	16.491	0.00	0.00
ATOM	1667	NE2	GLN	105	19.743	21.683	16.146	0.00	0.00
ATOM	1668	1HE2	GLN	105	19.550	20.783	16.015	0.00	0.00
ATOM	1669	ZHE2	GLN	105	19.779	22.151	16.086	0.00	0.00
ATOM	1670	C	GLN	105	22.040	26.209	16.305	0.00	0.00
ATOM	1671	O	GLN	105	21.903	26.655	15.204	0.00	0.00
ATOM	1672	N	PRO	106	23.241	26.065	16.819	0.00	0.00
ATOM	1673	CD	PRO	106	23.533	25.674	18.131	0.00	0.00
ATOM	1674	HD2	PRO	106	23.362	24.699	18.283	0.00	0.00
ATOM	1675	HD3	PRO	106	23.000	26.205	18.811	0.00	0.00
ATOM	1676	CG	PRO	106	24.925	25.940	18.305	0.00	0.00
ATOM	1677	HG2	PRO	106	25.371	25.194	18.329	0.00	0.00
ATOM	1678	HG3	PRO	106	25.043	26.378	19.041	0.00	0.00
ATOM	1679	CB	PRO	106	25.435	26.673	17.280	0.00	0.00
ATOM	1680	HB2	PRO	106	25.484	27.586	17.555	0.00	0.00
ATOM	1681	HB3	PRO	106	26.335	26.371	17.094	0.00	0.00
ATOM	1682	CA	PRO	106	24.452	26.502	16.179	0.00	0.00
ATOM	1683	HA	PRO	106	24.273	27.452	15.751	0.00	0.00
ATOM	1684	C	PRO	106	24.937	25.602	15.072	0.00	0.00
ATOM	1685	O	PRO	106	26.006	25.188	15.063	0.00	0.00
ATOM	1686	N	THR	107	24.160	25.306	14.122	0.00	0.00
ATOM	1687	H	THR	107	23.279	25.666	14.181	0.00	0.00
ATOM	1688	CA	THR	107	24.488	24.585	12.913	0.00	0.00
ATOM	1689	HA	THR	107	25.527	24.361	12.915	0.00	0.00
ATOM	1690	CB	THR	107	23.750	23.272	12.814	0.00	0.00
ATOM	1691	HB	THR	107	23.989	22.812	11.912	0.00	0.00
ATOM	1692	CG2	THR	107	24.077	22.339	13.895	0.00	0.00
ATOM	1693	1HG2	THR	107	24.090	22.086	14.164	0.00	0.00
ATOM	1694	2HG2	THR	107	24.202	22.071	14.113	0.00	0.00
ATOM	1695	3HG2	THR	107	24.182	22.165	14.187	0.00	0.00
ATOM	1696	OG1	THR	107	22.418	23.451	12.856	0.00	0.00
ATOM	1697	HG1	THR	107	22.008	22.936	12.540	0.00	0.00
ATOM	1698	C	THR	107	24.218	25.422	11.697	0.00	0.00
ATOM	1699	O	THR	107	23.341	26.239	11.698	0.00	0.00
ATOM	1700	N	ALA	108	24.954	25.242	10.646	0.00	0.00
ATOM	1701	H	ALA	108	25.629	24.543	10.689	0.00	0.00
ATOM	1702	CA	ALA	108	24.942	26.097	9.490	0.00	0.00
ATOM	1703	HA	ALA	108	25.198	27.063	9.808	0.00	0.00
ATOM	1704	CB	ALA	108	25.998	25.647	8.563	0.00	0.00
ATOM	1705	HB1	ALA	108	26.341	25.550	8.435	0.00	0.00
ATOM	1706	HB2	ALA	108	26.201	25.434	8.309	0.00	0.00
ATOM	1707	HB3	ALA	108	26.225	25.649	8.274	0.00	0.00
ATOM	1708	C	ALA	108	23.610	26.200	8.789	0.00	0.00
ATOM	1709	O	ALA	108	23.338	27.170	8.196	0.00	0.00
ATOM	1710	N	GLU	109	22.763	25.231	8.878	0.00	0.00
ATOM	1711	H	GLU	109	23.058	24.455	9.348	0.00	0.00
ATOM	1712	CA	GLU	109	21.436	25.207	8.306	0.00	0.00
ATOM	1713	HA	GLU	109	21.427	25.834	7.472	0.00	0.00
ATOM	1714	CB	GLU	109	21.103	23.844	7.841	0.00	0.00
ATOM	1715	HB2	GLU	109	21.174	23.197	8.627	0.00	0.00
ATOM	1716	HB3	GLU	109	20.111	23.827	7.513	0.00	0.00
ATOM	1717	CG	GLU	109	21.967	23.354	6.774	0.00	0.00
ATOM	1718	HG2	GLU	109	22.556	23.660	6.745	0.00	0.00
ATOM	1719	HG3	GLU	109	22.158	22.699	6.828	0.00	0.00
ATOM	1720	CD	GLU	109	21.759	23.306	5.683	0.00	0.00
ATOM	1721	OE1	GLU	109	21.600	23.271	5.286	0.00	0.00
ATOM	1722	OE2	GLU	109	21.760	23.300	5.202	0.00	0.00
ATOM	1723	C	GLU	109	20.358	25.736	9.203	0.00	0.00
ATOM	1724	O	GLU	109	19.270	25.869	8.772	0.00	0.00
ATOM	1725	N	ASN	110	20.629	26.058	10.435	0.00	0.00
ATOM	1726	H	ASN	110	21.530	25.915	10.741	0.00	0.00
ATOM	1727	CA	ASN	110	19.654	26.512	11.394	0.00	0.00
ATOM	1728	HA	ASN	110	18.760	26.752	10.883	0.00	0.00
ATOM	1729	CB	ASN	110	19.368	25.368	12.320	0.00	0.00
ATOM	1730	HB2	ASN	110	19.251	24.484	11.758	0.00	0.00
ATOM	1731	HB3	ASN	110	20.181	25.234	12.963	0.00	0.00
ATOM	1732	CG	ASN	110	18.154	25.561	13.134	0.00	0.00
ATOM	1733	OD1	ASN	110	18.019	26.071	14.009	0.00	0.00
ATOM	1734	ND2	ASN	110	17.234	25.147	12.883	0.00	0.00
ATOM	1735	1HD2	ASN	110	16.444	25.278	13.413	0.00	0.00
ATOM	1736	2HD2	ASN	110	17.316	24.698	12.169	0.00	0.00
ATOM	1737	C	ASN	110	20.035	27.771	12.146	0.00	0.00
ATOM	1738	O	ASN	110	19.181	28.446	12.601	0.00	0.00
ATOM	1739	N	ALA	111	21.284	28.123	12.248	0.00	0.00
ATOM	1740	H	ALA	111	21.938	27.526	11.865	0.00	0.00
ATOM	1741	CA	ALA	111	21.774	29.225	13.044	0.00	0.00
ATOM	1742	HA	ALA	111	21.444	29.082	14.043	0.00	0.00
ATOM	1743	CB	ALA	111	23.271	29.196	13.045	0.00	0.00
ATOM	1744	HB1	ALA	111	23.583	28.994	12.722	0.00	0.00
ATOM	1745	HB2	ALA	111	23.655	29.568	13.035	0.00	0.00

ATOM	1746	HB3	ALA	111	23.656	29.005	13.382	0.00	0.00
ATOM	1747	C	ALA	111	21.278	30.589	12.609	0.00	0.00
ATOM	1748	O	ALA	111	21.114	31.451	13.443	0.00	0.00
ATOM	1749	N	TYR	112	20.992	30.780	11.337	0.00	0.00
ATOM	1750	H	TYR	112	21.124	30.025	10.718	0.00	0.00
ATOM	1751	CA	TYR	112	20.648	32.066	10.757	0.00	0.00
ATOM	1752	HA	TYR	112	20.794	32.814	11.500	0.00	0.00
ATOM	1753	CB	TYR	112	21.602	32.365	9.628	0.00	0.00
ATOM	1754	HB2	TYR	112	21.318	31.779	8.795	0.00	0.00
ATOM	1755	HB3	TYR	112	21.471	33.372	9.336	0.00	0.00
ATOM	1756	CG	TYR	112	23.058	32.132	9.931	0.00	0.00
ATOM	1757	CD1	TYR	112	23.716	32.884	10.865	0.00	0.00
ATOM	1758	HD1	TYR	112	23.194	33.637	11.364	0.00	0.00
ATOM	1759	CE1	TYR	112	25.054	32.651	11.156	0.00	0.00
ATOM	1760	HE1	TYR	112	25.562	33.223	11.866	0.00	0.00
ATOM	1761	CZ	TYR	112	25.735	31.654	10.517	0.00	0.00
ATOM	1762	OH	TYR	112	27.021	31.429	10.790	0.00	0.00
ATOM	1763	HH	TYR	112	27.355	30.732	10.295	0.00	0.00
ATOM	1764	CE2	TYR	112	25.078	30.902	9.584	0.00	0.00
ATOM	1765	HE2	TYR	112	25.595	30.143	9.101	0.00	0.00
ATOM	1766	CD2	TYR	112	23.743	31.142	9.293	0.00	0.00
ATOM	1767	HD2	TYR	112	23.243	30.565	8.581	0.00	0.00
ATOM	1768	C	TYR	112	19.209	32.185	10.285	0.00	0.00
ATOM	1769	O	TYR	112	18.722	33.276	10.141	0.00	0.00
ATOM	1770	N	GLU	113	18.516	31.091	10.052	0.00	0.00
ATOM	1771	H	GLU	113	18.977	30.235	10.187	0.00	0.00
ATOM	1772	CA	GLU	113	17.217	31.065	9.398	0.00	0.00
ATOM	1773	HA	GLU	113	17.314	31.597	8.476	0.00	0.00
ATOM	1774	CB	GLU	113	16.887	29.632	9.070	0.00	0.00
ATOM	1775	HB2	GLU	113	17.715	29.234	8.537	0.00	0.00
ATOM	1776	HB3	GLU	113	16.771	29.073	9.960	0.00	0.00
ATOM	1777	CG	GLU	113	15.676	29.453	8.218	0.00	0.00
ATOM	1778	HG2	GLU	113	15.404	30.030	7.916	0.00	0.00
ATOM	1779	HG3	GLU	113	15.832	29.061	7.682	0.00	0.00
ATOM	1780	CD	GLU	113	14.643	28.970	8.475	0.00	0.00
ATOM	1781	OE1	GLU	113	13.865	29.129	8.251	0.00	0.00
ATOM	1782	OE2	GLU	113	14.559	28.401	8.870	0.00	0.00
ATOM	1783	C	GLU	113	16.102	31.748	10.193	0.00	0.00
ATOM	1784	O	GLU	113	15.412	32.572	9.671	0.00	0.00
ATOM	1785	N	TYR	114	15.952	31.454	11.458	0.00	0.00
ATOM	1786	H	TYR	114	16.566	30.792	11.834	0.00	0.00
ATOM	1787	CA	TYR	114	14.981	32.096	12.346	0.00	0.00
ATOM	1788	HA	TYR	114	14.026	32.136	11.844	0.00	0.00
ATOM	1789	CB	TYR	114	14.821	31.242	13.597	0.00	0.00
ATOM	1790	HB2	TYR	114	14.443	30.280	13.317	0.00	0.00
ATOM	1791	HB3	TYR	114	15.784	31.073	14.035	0.00	0.00
ATOM	1792	CG	TYR	114	13.921	31.805	14.663	0.00	0.00
ATOM	1793	CD1	TYR	114	12.565	31.625	14.596	0.00	0.00
ATOM	1794	HD1	TYR	114	12.167	31.084	13.785	0.00	0.00
ATOM	1795	CE1	TYR	114	11.739	32.154	15.587	0.00	0.00
ATOM	1796	HE1	TYR	114	10.701	32.024	15.528	0.00	0.00
ATOM	1797	CZ	TYR	114	12.260	32.859	16.655	0.00	0.00
ATOM	1798	OH	TYR	114	11.462	33.366	17.611	0.00	0.00
ATOM	1799	HH	TYR	114	10.561	33.242	17.421	0.00	0.00
ATOM	1800	CE2	TYR	114	13.624	33.031	16.727	0.00	0.00
ATOM	1801	HE2	TYR	114	14.019	33.563	17.547	0.00	0.00
ATOM	1802	CD2	TYR	114	14.449	32.502	15.734	0.00	0.00
ATOM	1803	HD2	TYR	114	15.489	32.635	15.791	0.00	0.00
ATOM	1804	C	TYR	114	15.383	33.535	12.683	0.00	0.00
ATOM	1805	O	TYR	114	14.569	34.443	12.593	0.00	0.00
ATOM	1806	N	PHE	115	16.657	33.761	12.990	0.00	0.00
ATOM	1807	H	PHE	115	17.255	32.964	13.037	0.00	0.00
ATOM	1808	CA	PHE	115	17.222	35.072	13.298	0.00	0.00
ATOM	1809	HA	PHE	115	16.720	35.463	14.171	0.00	0.00
ATOM	1810	CB	PHE	115	18.705	34.909	13.642	0.00	0.00
ATOM	1811	HB2	PHE	115	18.789	34.218	14.448	0.00	0.00
ATOM	1812	HB3	PHE	115	19.207	34.475	12.808	0.00	0.00
ATOM	1813	CG	PHE	115	19.458	36.148	14.039	0.00	0.00
ATOM	1814	CD1	PHE	115	20.304	36.658	13.468	0.00	0.00
ATOM	1815	HD1	PHE	115	20.395	36.197	12.737	0.00	0.00
ATOM	1816	CE1	PHE	115	21.034	37.768	13.841	0.00	0.00
ATOM	1817	HE1	PHE	115	21.673	38.150	13.399	0.00	0.00
ATOM	1818	CZ	PHE	115	20.931	38.378	14.795	0.00	0.00
ATOM	1819	HZ	PHE	115	21.496	39.221	15.089	0.00	0.00
ATOM	1820	CE2	PHE	115	20.089	37.878	15.365	0.00	0.00
ATOM	1821	HE2	PHE	115	20.002	38.347	16.100	0.00	0.00
ATOM	1822	CD2	PHE	115	19.359	36.766	14.995	0.00	0.00
ATOM	1823	HD2	PHE	115	18.723	36.391	15.451	0.00	0.00
ATOM	1824	C	PHE	115	17.004	36.065	12.156	0.00	0.00
ATOM	1825	O	PHE	115	16.519	37.157	12.397	0.00	0.00
ATOM	1826	N	THR	116	17.270	35.677	10.910	0.00	0.00
ATOM	1827	H	THR	116	17.645	34.765	10.773	0.00	0.00
ATOM	1828	CA	THR	116	17.090	36.535	9.729	0.00	0.00
ATOM	1829	HA	THR	116	17.703	37.412	9.851	0.00	0.00
ATOM	1830	CB	THR	116	17.515	35.823	8.446	0.00	0.00
ATOM	1831	HB	THR	116	16.908	34.969	8.300	0.00	0.00
ATOM	1832	CG2	THR	116	17.450	36.679	7.223	0.00	0.00
ATOM	1833	1HG2	THR	116	17.286	37.056	7.075	0.00	0.00
ATOM	1834	2HG2	THR	116	17.700	36.900	6.918	0.00	0.00
ATOM	1835	3HG2	THR	116	17.309	36.685	6.770	0.00	0.00
ATOM	1836	OG1	THR	116	18.830	35.416	8.531	0.00	0.00
ATOM	1837	HG1	THR	116	18.865	34.682	9.044	0.00	0.00
ATOM	1838	C	THR	116	15.647	37.001	9.584	0.00	0.00
ATOM	1839	O	THR	116	15.419	38.157	9.267	0.00	0.00
ATOM	1840	N	LYS	117	14.674	36.140	9.859	0.00	0.00
ATOM	1841	H	LYS	117	14.936	35.227	10.146	0.00	0.00
ATOM	1842	CA	LYS	117	13.248	36.451	9.746	0.00	0.00
ATOM	1843	HA	LYS	117	13.080	36.942	8.799	0.00	0.00
ATOM	1844	CB	LYS	117	12.430	35.158	9.756	0.00	0.00
ATOM	1845	HB2	LYS	117	12.685	34.564	10.608	0.00	0.00
ATOM	1846	HB3	LYS	117	11.392	35.411	9.824	0.00	0.00
ATOM	1847	CG	LYS	117	12.646	34.358	8.483	0.00	0.00
ATOM	1848	HG2	LYS	117	12.374	34.941	7.674	0.00	0.00
ATOM	1849	HG3	LYS	117	13.649	34.133	8.386	0.00	0.00
ATOM	1850	CD	LYS	117	11.884	33.084	8.420	0.00	0.00

ATOM	1851	HD2	LYS	117	12.178	32.477	9.198	0.00	0.00
ATOM	1852	HD3	LYS	117	10.884	33.289	8.541	0.00	0.00
ATOM	1853	CE	LYS	117	12.072	32.355	7.127	0.00	0.00
ATOM	1854	HE2	LYS	117	12.008	31.969	6.957	0.00	0.00
ATOM	1855	HE3	LYS	117	11.931	32.356	6.712	0.00	0.00
ATOM	1856	NZ	LYS	117	12.505	32.147	6.646	0.00	0.00
ATOM	1857	HZ1	LYS	117	12.696	32.096	6.541	0.00	0.00
ATOM	1858	HZ2	LYS	117	12.560	32.056	6.458	0.00	0.00
ATOM	1859	HZ3	LYS	117	12.589	32.132	6.579	0.00	0.00
ATOM	1860	C	LYS	117	12.797	37.443	10.810	0.00	0.00
ATOM	1861	O	LYS	117	12.238	38.461	10.457	0.00	0.00
ATOM	1862	N	ILE	118	13.097	37.225	12.081	0.00	0.00
ATOM	1863	H	ILE	118	13.588	36.398	12.317	0.00	0.00
ATOM	1864	CA	ILE	118	12.699	38.167	13.138	0.00	0.00
ATOM	1865	HA	ILE	118	11.683	38.463	12.927	0.00	0.00
ATOM	1866	CB	ILE	118	12.661	37.523	14.527	0.00	0.00
ATOM	1867	HB	ILE	118	12.285	38.278	15.183	0.00	0.00
ATOM	1868	CG2	ILE	118	11.669	36.373	14.552	0.00	0.00
ATOM	1869	1HG2	ILE	118	11.243	36.230	14.859	0.00	0.00
ATOM	1870	2HG2	ILE	118	11.303	36.187	14.221	0.00	0.00
ATOM	1871	3HG2	ILE	118	11.713	35.867	14.603	0.00	0.00
ATOM	1872	CG1	ILE	118	14.013	37.087	15.060	0.00	0.00
ATOM	1873	ZHG1	ILE	118	14.334	36.253	14.564	0.00	0.00
ATOM	1874	3HG1	ILE	118	14.695	37.830	14.904	0.00	0.00
ATOM	1875	CD1	ILE	118	14.061	36.793	16.491	0.00	0.00
ATOM	1876	1HD1	ILE	118	14.150	36.766	16.835	0.00	0.00
ATOM	1877	2HD1	ILE	118	14.002	36.745	16.846	0.00	0.00
ATOM	1878	3HD1	ILE	118	14.087	36.648	16.825	0.00	0.00
ATOM	1879	C	ILE	118	13.496	39.475	13.108	0.00	0.00
ATOM	1880	O	ILE	118	12.946	40.520	13.393	0.00	0.00
ATOM	1881	N	ALA	119	14.749	39.455	12.677	0.00	0.00
ATOM	1882	H	ALA	119	15.177	38.576	12.496	0.00	0.00
ATOM	1883	CA	ALA	119	15.553	40.653	12.482	0.00	0.00
ATOM	1884	HA	ALA	119	15.430	41.288	13.343	0.00	0.00
ATOM	1885	CB	ALA	119	17.019	40.265	12.416	0.00	0.00
ATOM	1886	HB1	ALA	119	17.247	39.878	11.688	0.00	0.00
ATOM	1887	HB2	ALA	119	17.575	40.927	12.488	0.00	0.00
ATOM	1888	HB3	ALA	119	17.294	39.719	13.036	0.00	0.00
ATOM	1889	C	ALA	119	15.118	41.473	11.262	0.00	0.00
ATOM	1890	O	ALA	119	15.217	42.678	11.282	0.00	0.00
ATOM	1891	N	THR	120	14.576	40.859	10.218	0.00	0.00
ATOM	1892	H	THR	120	14.555	39.869	10.215	0.00	0.00
ATOM	1893	CA	THR	120	13.960	41.587	9.098	0.00	0.00
ATOM	1894	HA	THR	120	14.628	42.368	8.772	0.00	0.00
ATOM	1895	CB	THR	120	13.715	40.664	7.902	0.00	0.00
ATOM	1896	HB	THR	120	13.055	39.864	8.183	0.00	0.00
ATOM	1897	CG2	THR	120	13.140	41.373	6.700	0.00	0.00
ATOM	1898	1HG2	THR	120	13.257	41.632	6.330	0.00	0.00
ATOM	1899	2HG2	THR	120	12.885	41.293	6.310	0.00	0.00
ATOM	1900	3HG2	THR	120	12.842	41.705	6.583	0.00	0.00
ATOM	1901	OG1	THR	120	14.922	40.116	7.478	0.00	0.00
ATOM	1902	HG1	THR	120	15.133	39.433	8.037	0.00	0.00
ATOM	1903	C	THR	120	12.672	42.269	9.548	0.00	0.00
ATOM	1904	O	THR	120	12.465	43.439	9.271	0.00	0.00
ATOM	1905	N	SER	121	11.862	41.590	10.347	0.00	0.00
ATOM	1906	H	SER	121	12.053	40.625	10.501	0.00	0.00
ATOM	1907	CA	SER	121	10.650	42.135	10.954	0.00	0.00
ATOM	1908	HA	SER	121	10.097	42.644	10.187	0.00	0.00
ATOM	1909	CB	SER	121	9.776	41.012	11.464	0.00	0.00
ATOM	1910	HB2	SER	121	10.311	40.416	12.146	0.00	0.00
ATOM	1911	HB3	SER	121	8.925	41.414	11.963	0.00	0.00
ATOM	1912	OG	SER	121	9.343	40.236	10.418	0.00	0.00
ATOM	1913	HG	SER	121	8.974	40.459	10.190	0.00	0.00
ATOM	1914	C	SER	121	10.888	43.165	12.055	0.00	0.00
ATOM	1915	O	SER	121	9.969	43.826	12.464	0.00	0.00
ATOM	1916	N	LEU	122	12.107	43.360	12.519	0.00	0.00
ATOM	1917	H	LEU	122	12.799	42.732	12.229	0.00	0.00
ATOM	1918	CA	LEU	122	12.492	44.464	13.406	0.00	0.00
ATOM	1919	HA	LEU	122	11.745	44.555	14.183	0.00	0.00
ATOM	1920	CB	LEU	122	13.828	44.084	14.064	0.00	0.00
ATOM	1921	HB2	LEU	122	13.678	43.161	14.586	0.00	0.00
ATOM	1922	HB3	LEU	122	14.545	43.910	13.291	0.00	0.00
ATOM	1923	CG	LEU	122	14.459	45.086	15.027	0.00	0.00
ATOM	1924	HG	LEU	122	14.751	45.967	14.488	0.00	0.00
ATOM	1925	CD1	LEU	122	13.537	45.492	16.149	0.00	0.00
ATOM	1926	1HD1	LEU	122	13.403	45.284	16.622	0.00	0.00
ATOM	1927	2HD1	LEU	122	13.019	45.590	16.175	0.00	0.00
ATOM	1928	3HD1	LEU	122	13.510	45.926	16.471	0.00	0.00
ATOM	1929	CD2	LEU	122	15.710	44.455	15.623	0.00	0.00
ATOM	1930	1HD2	LEU	122	16.080	44.352	15.676	0.00	0.00
ATOM	1931	2HD2	LEU	122	15.990	44.372	15.860	0.00	0.00
ATOM	1932	3HD2	LEU	122	15.983	44.202	15.768	0.00	0.00
ATOM	1933	C	LEU	122	12.544	45.811	12.669	0.00	0.00
ATOM	1934	O	LEU	122	12.254	46.832	13.259	0.00	0.00
ATOM	1935	N	PHE	123	12.860	45.824	11.381	0.00	0.00
ATOM	1936	H	PHE	123	13.080	44.952	10.958	0.00	0.00
ATOM	1937	CA	PHE	123	13.061	47.036	10.589	0.00	0.00
ATOM	1938	HA	PHE	123	12.975	47.895	11.239	0.00	0.00
ATOM	1939	CB	PHE	123	14.488	47.057	10.053	0.00	0.00
ATOM	1940	HB2	PHE	123	14.614	46.236	9.377	0.00	0.00
ATOM	1941	HB3	PHE	123	14.644	47.956	9.493	0.00	0.00
ATOM	1942	CG	PHE	123	15.545	46.995	11.126	0.00	0.00
ATOM	1943	CD1	PHE	123	15.810	48.105	11.918	0.00	0.00
ATOM	1944	HD1	PHE	123	15.273	49.002	11.757	0.00	0.00
ATOM	1945	CE1	PHE	123	16.759	48.036	12.936	0.00	0.00
ATOM	1946	HE1	PHE	123	16.968	48.881	13.541	0.00	0.00
ATOM	1947	CZ	PHE	123	17.428	46.852	13.177	0.00	0.00
ATOM	1948	HZ	PHE	123	18.135	46.784	13.968	0.00	0.00
ATOM	1949	CE2	PHE	123	17.162	45.742	12.388	0.00	0.00
ATOM	1950	HE2	PHE	123	17.661	44.830	12.578	0.00	0.00
ATOM	1951	CD2	PHE	123	16.239	45.823	11.356	0.00	0.00
ATOM	1952	HD2	PHE	123	16.046	44.971	10.755	0.00	0.00
ATOM	1953	C	PHE	123	12.025	47.273	9.490	0.00	0.00
ATOM	1954	O	PHE	123	12.062	48.300	8.847	0.00	0.00
ATOM	1955	N	GLU	124	11.075	46.375	9.292	0.00	0.00

ATOM	1956	H	GLU	124	11.125	45.536	9.808	0.00	0.00
ATOM	1957	CA	GLU	124	10.055	46.492	8.247	0.00	0.00
ATOM	1958	HA	GLU	124	10.576	46.654	7.325	0.00	0.00
ATOM	1959	CB	GLU	124	9.297	45.183	8.092	0.00	0.00
ATOM	1960	HB2	GLU	124	8.750	45.227	7.190	0.00	0.00
ATOM	1961	HB3	GLU	124	9.996	44.394	7.997	0.00	0.00
ATOM	1962	CG	GLU	124	8.349	44.846	9.196	0.00	0.00
ATOM	1963	HG2	GLU	124	7.680	45.636	9.310	0.00	0.00
ATOM	1964	HG3	GLU	124	8.884	44.757	10.080	0.00	0.00
ATOM	1965	CD	GLU	124	7.566	43.591	8.951	0.00	0.00
ATOM	1966	OE1	GLU	124	6.903	43.380	8.734	0.00	0.00
ATOM	1967	OE2	GLU	124	7.605	42.809	8.979	0.00	0.00
ATOM	1968	C	GLU	124	9.099	47.682	8.400	0.00	0.00
ATOM	1969	O	GLU	124	8.478	48.085	7.461	0.00	0.00
ATOM	1970	N	SER	125	9.004	48.261	9.565	0.00	0.00
ATOM	1971	H	SER	125	9.501	47.846	10.297	0.00	0.00
ATOM	1972	CA	SER	125	8.206	49.442	9.881	0.00	0.00
ATOM	1973	HA	SER	125	7.601	49.698	9.031	0.00	0.00
ATOM	1974	CB	SER	125	7.253	49.115	11.006	0.00	0.00
ATOM	1975	HB2	SER	125	6.658	49.969	11.224	0.00	0.00
ATOM	1976	HB3	SER	125	6.612	48.334	10.692	0.00	0.00
ATOM	1977	OG	SER	125	7.923	48.712	12.153	0.00	0.00
ATOM	1978	HG	SER	125	7.335	48.526	12.729	0.00	0.00
ATOM	1979	C	SER	125	9.034	50.678	10.186	0.00	0.00
ATOM	1980	O	SER	125	8.534	51.643	10.556	0.00	0.00
ATOM	1981	N	GLY	126	10.293	50.656	10.048	0.00	0.00
ATOM	1982	H	GLY	126	10.645	49.844	9.724	0.00	0.00
ATOM	1983	CA	GLY	126	11.203	51.750	10.300	0.00	0.00
ATOM	1984	HA2	GLY	126	11.516	52.122	9.378	0.00	0.00
ATOM	1985	HA3	GLY	126	10.708	52.519	10.798	0.00	0.00
ATOM	1986	C	GLY	126	12.433	51.412	11.098	0.00	0.00
ATOM	1987	O	GLY	126	12.527	50.360	11.691	0.00	0.00
ATOM	1988	N	ILE	127	13.377	52.326	11.123	0.00	0.00
ATOM	1989	H	ILE	127	13.207	53.169	10.644	0.00	0.00
ATOM	1990	CA	ILE	127	14.664	52.218	11.811	0.00	0.00
ATOM	1991	HA	ILE	127	14.636	51.331	12.427	0.00	0.00
ATOM	1992	CB	ILE	127	15.801	52.010	10.800	0.00	0.00
ATOM	1993	HB	ILE	127	15.559	51.124	10.243	0.00	0.00
ATOM	1994	CG2	ILE	127	15.920	53.142	9.796	0.00	0.00
ATOM	1995	1HG2	ILE	127	16.042	53.389	9.505	0.00	0.00
ATOM	1996	2HG2	ILE	127	15.864	53.376	9.501	0.00	0.00
ATOM	1997	3HG2	ILE	127	15.945	53.485	9.620	0.00	0.00
ATOM	1998	CG1	ILE	127	17.135	51.759	11.510	0.00	0.00
ATOM	1999	2HG1	ILE	127	17.509	52.651	11.909	0.00	0.00
ATOM	2000	3HG1	ILE	127	16.989	51.093	12.303	0.00	0.00
ATOM	2001	CD1	ILE	127	18.194	51.169	10.644	0.00	0.00
ATOM	2002	1HD1	ILE	127	18.399	50.872	10.508	0.00	0.00
ATOM	2003	2HD1	ILE	127	18.383	51.093	10.283	0.00	0.00
ATOM	2004	3HD1	ILE	127	18.574	51.118	10.532	0.00	0.00
ATOM	2005	C	ILE	127	14.898	53.394	12.752	0.00	0.00
ATOM	2006	O	ILE	127	14.662	54.533	12.417	0.00	0.00
ATOM	2007	N	ASN	128	15.390	53.100	13.941	0.00	0.00
ATOM	2008	H	ASN	128	15.563	52.148	14.144	0.00	0.00
ATOM	2009	CA	ASN	128	15.874	54.045	14.939	0.00	0.00
ATOM	2010	HA	ASN	128	16.285	54.912	14.437	0.00	0.00
ATOM	2011	CB	ASN	128	14.703	54.504	15.818	0.00	0.00
ATOM	2012	HB2	ASN	128	15.037	55.278	16.489	0.00	0.00
ATOM	2013	HB3	ASN	128	13.951	54.953	15.190	0.00	0.00
ATOM	2014	CG	ASN	128	14.071	53.416	16.662	0.00	0.00
ATOM	2015	OD1	ASN	128	14.679	52.744	17.420	0.00	0.00
ATOM	2016	ND2	ASN	128	12.839	53.208	16.546	0.00	0.00
ATOM	2017	1HD2	ASN	128	12.370	52.544	17.116	0.00	0.00
ATOM	2018	2HD2	ASN	128	12.338	53.754	15.923	0.00	0.00
ATOM	2019	C	ASN	128	17.019	53.406	15.744	0.00	0.00
ATOM	2020	O	ASN	128	17.254	52.205	15.647	0.00	0.00
ATOM	2021	N	TRP	129	17.719	54.197	16.547	0.00	0.00
ATOM	2022	H	TRP	129	17.476	55.161	16.582	0.00	0.00
ATOM	2023	CA	TRP	129	18.879	53.751	17.315	0.00	0.00
ATOM	2024	HA	TRP	129	19.608	53.355	16.624	0.00	0.00
ATOM	2025	CB	TRP	129	19.496	54.947	18.030	0.00	0.00
ATOM	2026	HB2	TRP	129	19.798	55.679	17.307	0.00	0.00
ATOM	2027	HB3	TRP	129	18.740	55.406	18.628	0.00	0.00
ATOM	2028	CG	TRP	129	20.663	54.668	18.897	0.00	0.00
ATOM	2029	CD1	TRP	129	20.786	55.070	20.146	0.00	0.00
ATOM	2030	HD1	TRP	129	20.061	55.638	20.651	0.00	0.00
ATOM	2031	HE1	TRP	129	21.970	54.657	20.663	0.00	0.00
ATOM	2032	HE1	TRP	129	22.272	54.885	21.568	0.00	0.00
ATOM	2033	CE2	TRP	129	22.679	53.949	19.773	0.00	0.00
ATOM	2034	CZ2	TRP	129	23.911	53.346	19.832	0.00	0.00
ATOM	2035	HZ2	TRP	129	24.472	53.365	20.722	0.00	0.00
ATOM	2036	CH2	TRP	129	24.385	52.697	18.724	0.00	0.00
ATOM	2037	HH2	TRP	129	25.318	52.215	18.754	0.00	0.00
ATOM	2038	CZ3	TRP	129	23.631	52.674	17.578	0.00	0.00
ATOM	2039	HZ3	TRP	129	24.004	52.186	16.734	0.00	0.00
ATOM	2040	CE3	TRP	129	22.391	53.286	17.529	0.00	0.00
ATOM	2041	HE3	TRP	129	21.825	53.254	16.640	0.00	0.00
ATOM	2042	CD2	TRP	129	21.878	53.943	18.626	0.00	0.00
ATOM	2043	C	TRP	129	18.555	52.624	18.302	0.00	0.00
ATOM	2044	O	TRP	129	19.281	51.643	18.370	0.00	0.00
ATOM	2045	N	GLY	130	17.427	52.693	19.002	0.00	0.00
ATOM	2046	H	GLY	130	16.840	53.483	18.866	0.00	0.00
ATOM	2047	CA	GLY	130	17.024	51.655	19.950	0.00	0.00
ATOM	2048	HA2	GLY	130	17.805	51.531	20.677	0.00	0.00
ATOM	2049	HA3	GLY	130	16.135	51.974	20.464	0.00	0.00
ATOM	2050	C	GLY	130	16.749	50.296	19.307	0.00	0.00
ATOM	2051	O	GLY	130	17.132	49.280	19.869	0.00	0.00
ATOM	2052	N	ARG	131	16.198	50.255	18.093	0.00	0.00
ATOM	2053	H	ARG	131	15.885	51.120	17.709	0.00	0.00
ATOM	2054	CA	ARG	131	16.058	49.023	17.299	0.00	0.00
ATOM	2055	HA	ARG	131	15.616	48.257	17.924	0.00	0.00
ATOM	2056	CB	ARG	131	15.136	49.258	16.097	0.00	0.00
ATOM	2057	HB2	ARG	131	15.489	50.107	15.538	0.00	0.00
ATOM	2058	HB3	ARG	131	15.179	48.391	15.460	0.00	0.00
ATOM	2059	CG	ARG	131	13.671	49.473	16.485	0.00	0.00
ATOM	2060	HG2	ARG	131	13.311	48.617	17.013	0.00	0.00

ATOM	2061	HG3	ARG	131	13.579	50.320	17.132	0.00	0.00
ATOM	2062	CD	ARG	131	12.809	49.696	15.257	0.00	0.00
ATOM	2063	HD2	ARG	131	13.186	50.528	14.717	0.00	0.00
ATOM	2064	HD3	ARG	131	12.874	48.834	14.641	0.00	0.00
ATOM	2065	NE	ARG	131	11.421	49.952	15.609	0.00	0.00
ATOM	2066	HE	ARG	131	11.249	50.342	16.505	0.00	0.00
ATOM	2067	CZ	ARG	131	10.373	49.862	14.845	0.00	0.00
ATOM	2068	NH1	ARG	131	10.416	49.486	13.624	0.00	0.00
ATOM	2069	1HH1	ARG	131	11.284	49.288	13.216	0.00	0.00
ATOM	2070	2HH1	ARG	131	9.586	49.435	13.094	0.00	0.00
ATOM	2071	NH2	ARG	131	9.224	50.157	15.317	0.00	0.00
ATOM	2072	1HH2	ARG	131	9.164	50.457	16.259	0.00	0.00
ATOM	2073	2HH2	ARG	131	8.431	50.181	14.752	0.00	0.00
ATOM	2074	C	ARG	131	17.413	48.446	16.865	0.00	0.00
ATOM	2075	O	ARG	131	17.569	47.239	16.854	0.00	0.00
ATOM	2076	N	VAL	132	18.410	49.278	16.576	0.00	0.00
ATOM	2077	H	VAL	132	18.219	50.253	16.610	0.00	0.00
ATOM	2078	CA	VAL	132	19.785	48.823	16.293	0.00	0.00
ATOM	2079	HA	VAL	132	19.723	47.994	15.601	0.00	0.00
ATOM	2080	CB	VAL	132	20.619	49.922	15.618	0.00	0.00
ATOM	2081	HB	VAL	132	20.675	50.773	16.250	0.00	0.00
ATOM	2082	CG1	VAL	132	22.030	49.479	15.324	0.00	0.00
ATOM	2083	1HG1	VAL	132	22.366	49.519	15.009	0.00	0.00
ATOM	2084	2HG1	VAL	132	22.478	49.505	15.491	0.00	0.00
ATOM	2085	3HG1	VAL	132	22.296	49.095	15.265	0.00	0.00
ATOM	2086	CG2	VAL	132	20.008	50.361	14.305	0.00	0.00
ATOM	2087	1HG2	VAL	132	19.938	50.254	13.875	0.00	0.00
ATOM	2088	2HG2	VAL	132	19.624	50.490	14.090	0.00	0.00
ATOM	2089	3HG2	VAL	132	20.019	50.687	13.987	0.00	0.00
ATOM	2090	C	VAL	132	20.460	48.274	17.551	0.00	0.00
ATOM	2091	O	VAL	132	21.096	47.235	17.491	0.00	0.00
ATOM	2092	N	VAL	133	20.261	48.892	18.714	0.00	0.00
ATOM	2093	H	VAL	133	19.762	49.753	18.703	0.00	0.00
ATOM	2094	CA	VAL	133	20.751	48.383	20.001	0.00	0.00
ATOM	2095	HA	VAL	133	21.806	48.170	19.899	0.00	0.00
ATOM	2096	CB	VAL	133	20.613	49.438	21.113	0.00	0.00
ATOM	2097	HB	VAL	133	19.604	49.787	21.154	0.00	0.00
ATOM	2098	CG1	VAL	133	20.976	48.913	22.478	0.00	0.00
ATOM	2099	1HG1	VAL	133	21.085	48.338	22.596	0.00	0.00
ATOM	2100	2HG1	VAL	133	21.461	49.078	22.854	0.00	0.00
ATOM	2101	3HG1	VAL	133	20.620	48.944	23.005	0.00	0.00
ATOM	2102	CG2	VAL	133	21.526	50.622	20.853	0.00	0.00
ATOM	2103	1HG2	VAL	133	21.726	50.917	20.757	0.00	0.00
ATOM	2104	2HG2	VAL	133	21.728	50.931	20.823	0.00	0.00
ATOM	2105	3HG2	VAL	133	21.785	50.887	20.796	0.00	0.00
ATOM	2106	C	VAL	133	20.082	47.055	20.381	0.00	0.00
ATOM	2107	O	VAL	133	20.758	46.164	20.864	0.00	0.00
ATOM	2108	N	ALA	134	18.798	46.858	20.084	0.00	0.00
ATOM	2109	H	ALA	134	18.264	47.628	19.740	0.00	0.00
ATOM	2110	CA	ALA	134	18.116	45.582	20.296	0.00	0.00
ATOM	2111	HA	ALA	134	18.268	45.293	21.323	0.00	0.00
ATOM	2112	CB	ALA	134	16.622	45.772	20.084	0.00	0.00
ATOM	2113	HB1	ALA	134	16.235	45.968	20.338	0.00	0.00
ATOM	2114	HB2	ALA	134	16.324	45.991	19.762	0.00	0.00
ATOM	2115	HB3	ALA	134	16.222	45.479	20.016	0.00	0.00
ATOM	2116	C	ALA	134	18.697	44.448	19.429	0.00	0.00
ATOM	2117	O	ALA	134	18.886	43.346	19.921	0.00	0.00
ATOM	2118	N	LEU	135	19.059	44.725	18.176	0.00	0.00
ATOM	2119	H	LEU	135	18.861	45.634	17.823	0.00	0.00
ATOM	2120	CA	LEU	135	19.753	43.778	17.297	0.00	0.00
ATOM	2121	HA	LEU	135	19.171	42.869	17.268	0.00	0.00
ATOM	2122	CB	LEU	135	19.827	44.356	15.875	0.00	0.00
ATOM	2123	HB2	LEU	135	18.838	44.564	15.535	0.00	0.00
ATOM	2124	HB3	LEU	135	20.337	45.290	15.913	0.00	0.00
ATOM	2125	CG	LEU	135	20.524	43.471	14.851	0.00	0.00
ATOM	2126	HG	LEU	135	21.484	43.211	15.207	0.00	0.00
ATOM	2127	CD1	LEU	135	19.768	42.219	14.586	0.00	0.00
ATOM	2128	1HD1	LEU	135	19.509	42.015	14.256	0.00	0.00
ATOM	2129	2HD1	LEU	135	19.836	41.753	14.550	0.00	0.00
ATOM	2130	3HD1	LEU	135	19.432	41.959	14.756	0.00	0.00
ATOM	2131	CD2	LEU	135	20.705	44.195	13.553	0.00	0.00
ATOM	2132	1HD2	LEU	135	20.766	44.428	13.286	0.00	0.00
ATOM	2133	2HD2	LEU	135	20.821	44.325	13.223	0.00	0.00
ATOM	2134	3HD2	LEU	135	20.694	44.356	13.203	0.00	0.00
ATOM	2135	C	LEU	135	21.145	43.418	17.831	0.00	0.00
ATOM	2136	O	LEU	135	21.516	42.254	17.836	0.00	0.00
ATOM	2137	N	LEU	136	21.903	44.392	18.318	0.00	0.00
ATOM	2138	H	LEU	136	21.540	45.319	18.283	0.00	0.00
ATOM	2139	CA	LEU	136	23.224	44.181	18.916	0.00	0.00
ATOM	2140	HA	LEU	136	23.792	43.529	18.270	0.00	0.00
ATOM	2141	CB	LEU	136	23.951	45.520	19.023	0.00	0.00
ATOM	2142	HB2	LEU	136	23.308	46.220	19.510	0.00	0.00
ATOM	2143	HB3	LEU	136	24.811	45.399	19.647	0.00	0.00
ATOM	2144	CG	LEU	136	24.393	46.106	17.688	0.00	0.00
ATOM	2145	HG	LEU	136	23.589	46.079	17.003	0.00	0.00
ATOM	2146	CD1	LEU	136	24.804	47.532	17.837	0.00	0.00
ATOM	2147	1HD1	LEU	136	25.241	47.765	17.991	0.00	0.00
ATOM	2148	2HD1	LEU	136	24.624	47.926	18.122	0.00	0.00
ATOM	2149	3HD1	LEU	136	24.844	47.935	17.503	0.00	0.00
ATOM	2150	CD2	LEU	136	25.530	45.351	17.096	0.00	0.00
ATOM	2151	1HD2	LEU	136	25.715	44.982	17.007	0.00	0.00
ATOM	2152	2HD2	LEU	136	25.767	45.241	16.744	0.00	0.00
ATOM	2153	3HD2	LEU	136	25.933	45.284	17.085	0.00	0.00
ATOM	2154	C	LEU	136	23.148	43.464	20.267	0.00	0.00
ATOM	2155	O	LEU	136	24.055	42.716	20.596	0.00	0.00
ATOM	2156	N	GLY	137	22.074	43.633	21.028	0.00	0.00
ATOM	2157	H	GLY	137	21.418	44.323	20.742	0.00	0.00
ATOM	2158	CA	GLY	137	21.806	42.902	22.260	0.00	0.00
ATOM	2159	HA2	GLY	137	22.657	42.982	22.911	0.00	0.00
ATOM	2160	HA3	GLY	137	20.958	43.351	22.745	0.00	0.00
ATOM	2161	C	GLY	137	21.504	41.433	22.018	0.00	0.00
ATOM	2162	O	GLY	137	22.109	40.577	22.642	0.00	0.00
ATOM	2163	N	PHE	138	20.640	41.127	21.056	0.00	0.00
ATOM	2164	H	PHE	138	20.141	41.870	20.622	0.00	0.00
ATOM	2165	CA	PHE	138	20.381	39.769	20.594	0.00	0.00

ATOM	2166	HA	PHE	138	20.076	39.170	21.440	0.00	0.00
ATOM	2167	CB	PHE	138	19.231	39.805	19.587	0.00	0.00
ATOM	2168	HB2	PHE	138	18.415	40.339	20.022	0.00	0.00
ATOM	2169	HB3	PHE	138	19.547	40.359	18.730	0.00	0.00
ATOM	2170	CG	PHE	138	18.695	38.485	19.116	0.00	0.00
ATOM	2171	CD1	PHE	138	17.961	37.772	19.592	0.00	0.00
ATOM	2172	HD1	PHE	138	17.784	38.148	20.296	0.00	0.00
ATOM	2173	CE1	PHE	138	17.442	36.576	19.137	0.00	0.00
ATOM	2174	HE1	PHE	138	16.877	36.039	19.492	0.00	0.00
ATOM	2175	CZ	PHE	138	17.658	36.080	18.222	0.00	0.00
ATOM	2176	HZ	PHE	138	17.267	35.165	17.873	0.00	0.00
ATOM	2177	CE2	PHE	138	18.388	36.786	17.754	0.00	0.00
ATOM	2178	HE2	PHE	138	18.552	36.411	17.053	0.00	0.00
ATOM	2179	CD2	PHE	138	18.900	37.988	18.195	0.00	0.00
ATOM	2180	HD2	PHE	138	19.446	38.527	17.819	0.00	0.00
ATOM	2181	C	PHE	138	21.640	39.133	19.997	0.00	0.00
ATOM	2182	O	PHE	138	21.974	38.005	20.312	0.00	0.00
ATOM	2183	N	GLY	139	22.394	39.887	19.206	0.00	0.00
ATOM	2184	H	GLY	139	22.036	40.781	18.957	0.00	0.00
ATOM	2185	CA	GLY	139	23.655	39.478	18.603	0.00	0.00
ATOM	2186	HA2	GLY	139	23.481	38.640	17.957	0.00	0.00
ATOM	2187	HA3	GLY	139	24.020	40.282	17.995	0.00	0.00
ATOM	2188	C	GLY	139	24.742	39.109	19.602	0.00	0.00
ATOM	2189	O	GLY	139	25.416	38.116	19.404	0.00	0.00
ATOM	2190	N	TYR	140	24.873	39.841	20.714	0.00	0.00
ATOM	2191	H	TYR	140	24.309	40.654	20.815	0.00	0.00
ATOM	2192	CA	TYR	140	25.791	39.479	21.797	0.00	0.00
ATOM	2193	HA	TYR	140	26.782	39.374	21.379	0.00	0.00
ATOM	2194	CB	TYR	140	25.848	40.565	22.875	0.00	0.00
ATOM	2195	HB2	TYR	140	26.316	41.435	22.450	0.00	0.00
ATOM	2196	HB3	TYR	140	24.845	40.828	23.161	0.00	0.00
ATOM	2197	CG	TYR	140	26.634	40.172	24.115	0.00	0.00
ATOM	2198	CD1	TYR	140	27.954	39.727	24.004	0.00	0.00
ATOM	2199	HD1	TYR	140	28.421	39.693	23.046	0.00	0.00
ATOM	2200	CE1	TYR	140	28.656	39.289	25.133	0.00	0.00
ATOM	2201	HE1	TYR	140	29.658	38.934	25.046	0.00	0.00
ATOM	2202	CZ	TYR	140	28.047	39.309	26.388	0.00	0.00
ATOM	2203	OH	TYR	140	28.737	38.901	27.471	0.00	0.00
ATOM	2204	HH	TYR	140	28.219	38.900	28.261	0.00	0.00
ATOM	2205	CE2	TYR	140	26.738	39.780	26.511	0.00	0.00
ATOM	2206	HE2	TYR	140	26.292	39.828	27.478	0.00	0.00
ATOM	2207	CD2	TYR	140	26.032	40.198	25.375	0.00	0.00
ATOM	2208	HD2	TYR	140	25.027	40.541	25.472	0.00	0.00
ATOM	2209	C	TYR	140	25.435	38.135	22.422	0.00	0.00
ATOM	2210	O	TYR	140	26.303	37.296	22.578	0.00	0.00
ATOM	2211	N	ARG	141	24.169	37.885	22.744	0.00	0.00
ATOM	2212	H	ARG	141	23.495	38.591	22.557	0.00	0.00
ATOM	2213	CA	ARG	141	23.742	36.634	23.377	0.00	0.00
ATOM	2214	HA	ARG	141	24.441	36.407	24.172	0.00	0.00
ATOM	2215	CB	ARG	141	22.355	36.801	24.003	0.00	0.00
ATOM	2216	HB2	ARG	141	21.667	37.130	23.241	0.00	0.00
ATOM	2217	HB3	ARG	141	22.020	35.842	24.362	0.00	0.00
ATOM	2218	CG	ARG	141	22.295	37.792	25.167	0.00	0.00
ATOM	2219	HG2	ARG	141	22.630	38.744	24.841	0.00	0.00
ATOM	2220	HG3	ARG	141	21.280	37.904	25.472	0.00	0.00
ATOM	2221	CD	ARG	141	23.105	37.369	26.372	0.00	0.00
ATOM	2222	HD2	ARG	141	22.764	36.430	26.691	0.00	0.00
ATOM	2223	HD3	ARG	141	24.117	37.283	26.094	0.00	0.00
ATOM	2224	NE	ARG	141	23.009	38.314	27.473	0.00	0.00
ATOM	2225	HE	ARG	141	22.241	38.948	27.472	0.00	0.00
ATOM	2226	CZ	ARG	141	23.846	38.470	28.460	0.00	0.00
ATOM	2227	NH1	ARG	141	24.866	37.729	28.646	0.00	0.00
ATOM	2228	1HH1	ARG	141	24.971	36.928	28.119	0.00	0.00
ATOM	2229	2HH1	ARG	141	25.531	37.994	29.337	0.00	0.00
ATOM	2230	NH2	ARG	141	23.688	39.394	29.312	0.00	0.00
ATOM	2231	1HH2	ARG	141	22.875	39.936	29.259	0.00	0.00
ATOM	2232	2HH2	ARG	141	24.344	39.478	30.052	0.00	0.00
ATOM	2233	C	ARG	141	23.845	35.430	22.444	0.00	0.00
ATOM	2234	O	ARG	141	24.205	34.361	22.896	0.00	0.00
ATOM	2235	N	LEU	142	23.649	35.599	21.144	0.00	0.00
ATOM	2236	H	LEU	142	23.306	36.483	20.847	0.00	0.00
ATOM	2237	CA	LEU	142	23.954	34.581	20.133	0.00	0.00
ATOM	2238	HA	LEU	142	23.452	33.670	20.422	0.00	0.00
ATOM	2239	CB	LEU	142	23.392	35.036	18.782	0.00	0.00
ATOM	2240	HB2	LEU	142	22.338	35.189	18.887	0.00	0.00
ATOM	2241	HB3	LEU	142	23.818	35.983	18.534	0.00	0.00
ATOM	2242	CG	LEU	142	23.636	34.091	17.610	0.00	0.00
ATOM	2243	HG	LEU	142	24.678	33.948	17.481	0.00	0.00
ATOM	2244	CD1	LEU	142	23.011	32.759	17.809	0.00	0.00
ATOM	2245	1HD1	LEU	142	22.760	32.466	17.804	0.00	0.00
ATOM	2246	2HD1	LEU	142	22.947	32.379	17.786	0.00	0.00
ATOM	2247	3HD1	LEU	142	22.887	32.448	17.964	0.00	0.00
ATOM	2248	CD2	LEU	142	23.102	34.675	16.342	0.00	0.00
ATOM	2249	1HD2	LEU	142	22.810	34.768	16.071	0.00	0.00
ATOM	2250	2HD2	LEU	142	23.037	34.984	16.066	0.00	0.00
ATOM	2251	3HD2	LEU	142	23.088	34.689	15.946	0.00	0.00
ATOM	2252	C	LEU	142	25.461	34.286	20.060	0.00	0.00
ATOM	2253	O	LEU	142	25.864	33.138	20.123	0.00	0.00
ATOM	2254	N	ALA	143	26.299	35.311	19.986	0.00	0.00
ATOM	2255	H	ALA	143	25.918	36.230	19.941	0.00	0.00
ATOM	2256	CA	ALA	143	27.751	35.170	19.939	0.00	0.00
ATOM	2257	HA	ALA	143	28.007	34.515	19.118	0.00	0.00
ATOM	2258	CB	ALA	143	28.356	36.539	19.660	0.00	0.00
ATOM	2259	HB1	ALA	143	28.454	36.987	19.993	0.00	0.00
ATOM	2260	HB2	ALA	143	28.859	36.673	19.474	0.00	0.00
ATOM	2261	HB3	ALA	143	28.203	36.945	19.311	0.00	0.00
ATOM	2262	C	ALA	143	28.326	34.537	21.214	0.00	0.00
ATOM	2263	O	ALA	143	29.183	33.671	21.138	0.00	0.00
ATOM	2264	N	LEU	144	27.814	34.905	22.382	0.00	0.00
ATOM	2265	H	LEU	144	27.159	35.654	22.382	0.00	0.00
ATOM	2266	CA	LEU	144	28.225	34.371	23.667	0.00	0.00
ATOM	2267	HA	LEU	144	29.293	34.487	23.740	0.00	0.00
ATOM	2268	CB	LEU	144	27.580	35.184	24.789	0.00	0.00
ATOM	2269	HB2	LEU	144	27.792	36.223	24.636	0.00	0.00
ATOM	2270	HB3	LEU	144	26.520	35.063	24.726	0.00	0.00

ATOM	2271	CG	LEU	144	28.023	34.812	26.196	0.00	0.00
ATOM	2272	HG	LEU	144	27.857	33.768	26.353	0.00	0.00
ATOM	2273	CD1	LEU	144	29.474	35.108	26.452	0.00	0.00
ATOM	2274	1HD1	LEU	144	29.855	34.902	26.716	0.00	0.00
ATOM	2275	2HD1	LEU	144	29.860	35.142	26.195	0.00	0.00
ATOM	2276	3HD1	LEU	144	29.763	35.472	26.651	0.00	0.00
ATOM	2277	CD2	LEU	144	27.194	35.561	27.208	0.00	0.00
ATOM	2278	1HD2	LEU	144	26.758	35.519	27.402	0.00	0.00
ATOM	2279	2HD2	LEU	144	27.019	36.007	27.275	0.00	0.00
ATOM	2280	3HD2	LEU	144	27.209	35.685	27.691	0.00	0.00
ATOM	2281	C	LEU	144	27.921	32.880	23.792	0.00	0.00
ATOM	2282	O	LEU	144	28.745	32.138	24.288	0.00	0.00
ATOM	2283	N	HIP	145	26.783	32.411	23.292	0.00	0.00
ATOM	2284	H	HIP	145	26.146	33.064	22.905	0.00	0.00
ATOM	2285	CA	HIP	145	26.420	30.997	23.314	0.00	0.00
ATOM	2286	HA	HIP	145	26.438	30.658	24.334	0.00	0.00
ATOM	2287	CB	HIP	145	25.010	30.807	22.786	0.00	0.00
ATOM	2288	HB2	HIP	145	24.795	31.393	22.220	0.00	0.00
ATOM	2289	HB3	HIP	145	24.923	30.075	22.360	0.00	0.00
ATOM	2290	CG	HIP	145	23.973	30.765	23.529	0.00	0.00
ATOM	2291	ND1	HIP	145	23.605	31.088	24.383	0.00	0.00
ATOM	2292	HD1	HIP	145	23.986	31.396	24.637	0.00	0.00
ATOM	2293	CE1	HIP	145	22.645	30.876	24.864	0.00	0.00
ATOM	2294	HE1	HIP	145	22.165	31.018	25.568	0.00	0.00
ATOM	2295	NE2	HIP	145	22.388	30.439	24.335	0.00	0.00
ATOM	2296	HE2	HIP	145	21.711	30.177	24.537	0.00	0.00
ATOM	2297	CD2	HIP	145	23.211	30.362	23.497	0.00	0.00
ATOM	2298	HD2	HIP	145	23.246	30.027	22.943	0.00	0.00
ATOM	2299	C	HIP	145	27.410	30.115	22.573	0.00	0.00
ATOM	2300	O	HIP	145	27.743	29.074	23.055	0.00	0.00
ATOM	2301	N	VAL	146	27.932	30.531	21.441	0.00	0.00
ATOM	2302	H	VAL	146	27.618	31.389	21.096	0.00	0.00
ATOM	2303	CA	VAL	146	28.940	29.765	20.701	0.00	0.00
ATOM	2304	HA	VAL	146	28.713	28.723	20.840	0.00	0.00
ATOM	2305	CB	VAL	146	28.881	30.007	19.184	0.00	0.00
ATOM	2306	HB	VAL	146	29.607	29.387	18.719	0.00	0.00
ATOM	2307	CG1	VAL	146	27.547	29.600	18.639	0.00	0.00
ATOM	2308	1HG1	VAL	146	27.141	29.725	18.486	0.00	0.00
ATOM	2309	2HG1	VAL	146	27.342	29.397	18.311	0.00	0.00
ATOM	2310	3HG1	VAL	146	27.186	29.365	18.708	0.00	0.00
ATOM	2311	CG2	VAL	146	29.161	31.407	18.743	0.00	0.00
ATOM	2312	1HG2	VAL	146	29.729	31.667	18.576	0.00	0.00
ATOM	2313	2HG2	VAL	146	28.934	31.690	18.227	0.00	0.00
ATOM	2314	3HG2	VAL	146	29.039	31.871	19.084	0.00	0.00
ATOM	2315	C	VAL	146	30.336	29.943	21.277	0.00	0.00
ATOM	2316	O	VAL	146	31.086	28.999	21.342	0.00	0.00
ATOM	2317	N	TYR	147	30.659	31.110	21.802	0.00	0.00
ATOM	2318	H	TYR	147	30.015	31.855	21.703	0.00	0.00
ATOM	2319	CA	TYR	147	31.906	31.386	22.508	0.00	0.00
ATOM	2320	HA	TYR	147	32.719	31.127	21.852	0.00	0.00
ATOM	2321	CB	TYR	147	31.981	32.875	22.791	0.00	0.00
ATOM	2322	HB2	TYR	147	31.864	33.377	21.877	0.00	0.00
ATOM	2323	HB3	TYR	147	31.160	33.148	23.397	0.00	0.00
ATOM	2324	CG	TYR	147	33.197	33.407	23.437	0.00	0.00
ATOM	2325	CD1	TYR	147	33.286	34.085	24.005	0.00	0.00
ATOM	2326	HD1	TYR	147	32.510	34.203	23.980	0.00	0.00
ATOM	2327	CE1	TYR	147	34.388	34.608	24.585	0.00	0.00
ATOM	2328	HE1	TYR	147	34.459	35.127	25.017	0.00	0.00
ATOM	2329	CZ	TYR	147	35.410	34.458	24.619	0.00	0.00
ATOM	2330	OH	TYR	147	36.469	34.955	25.197	0.00	0.00
ATOM	2331	HH	TYR	147	37.091	34.775	25.156	0.00	0.00
ATOM	2332	CE2	TYR	147	35.326	33.782	24.050	0.00	0.00
ATOM	2333	HE2	TYR	147	36.106	33.650	24.065	0.00	0.00
ATOM	2334	CD2	TYR	147	34.224	33.261	23.455	0.00	0.00
ATOM	2335	HD2	TYR	147	34.179	32.755	23.023	0.00	0.00
ATOM	2336	C	TYR	147	32.055	30.558	23.788	0.00	0.00
ATOM	2337	O	TYR	147	33.090	29.979	24.008	0.00	0.00
ATOM	2338	N	GLN	148	31.002	30.410	24.578	0.00	0.00
ATOM	2339	H	GLN	148	30.188	30.923	24.349	0.00	0.00
ATOM	2340	CA	GLN	148	30.953	29.583	25.781	0.00	0.00
ATOM	2341	HA	GLN	148	31.761	29.860	26.415	0.00	0.00
ATOM	2342	CB	GLN	148	29.661	29.836	26.512	0.00	0.00
ATOM	2343	HB2	GLN	148	29.100	30.225	26.105	0.00	0.00
ATOM	2344	HB3	GLN	148	29.282	29.195	26.730	0.00	0.00
ATOM	2345	CG	GLN	148	29.621	30.429	27.525	0.00	0.00
ATOM	2346	HG2	GLN	148	30.108	30.000	27.980	0.00	0.00
ATOM	2347	HG3	GLN	148	30.050	31.068	27.337	0.00	0.00
ATOM	2348	CD	GLN	148	28.363	30.754	28.196	0.00	0.00
ATOM	2349	OE1	GLN	148	27.371	30.653	27.822	0.00	0.00
ATOM	2350	NE2	GLN	148	28.352	31.163	29.218	0.00	0.00
ATOM	2351	1HE2	GLN	148	27.533	31.363	29.663	0.00	0.00
ATOM	2352	2HE2	GLN	148	29.153	31.239	29.563	0.00	0.00
ATOM	2353	C	GLN	148	31.129	28.105	25.501	0.00	0.00
ATOM	2354	O	GLN	148	31.576	27.392	26.335	0.00	0.00
ATOM	2355	N	HIP	149	30.829	27.642	24.322	0.00	0.00
ATOM	2356	H	HIP	149	30.455	28.276	23.700	0.00	0.00
ATOM	2357	CA	HIP	149	31.046	26.272	23.880	0.00	0.00
ATOM	2358	HA	HIP	149	31.197	25.659	24.741	0.00	0.00
ATOM	2359	CB	HIP	149	29.797	25.769	23.200	0.00	0.00
ATOM	2360	HB2	HIP	149	29.558	26.390	22.381	0.00	0.00
ATOM	2361	HB3	HIP	149	29.991	24.803	22.824	0.00	0.00
ATOM	2362	CG	HIP	149	28.626	25.677	24.097	0.00	0.00
ATOM	2363	ND1	HIP	149	27.600	26.257	24.136	0.00	0.00
ATOM	2364	HD1	HIP	149	27.480	26.807	23.555	0.00	0.00
ATOM	2365	CE1	HIP	149	26.780	25.951	25.079	0.00	0.00
ATOM	2366	HE1	HIP	149	25.889	26.260	25.341	0.00	0.00
ATOM	2367	NE2	HIP	149	27.248	25.199	25.638	0.00	0.00
ATOM	2368	HE2	HIP	149	26.838	24.828	26.368	0.00	0.00
ATOM	2369	CD2	HIP	149	28.400	25.015	25.029	0.00	0.00
ATOM	2370	HD2	HIP	149	29.017	24.453	25.250	0.00	0.00
ATOM	2371	C	HIP	149	32.308	26.076	23.053	0.00	0.00
ATOM	2372	O	HIP	149	32.472	25.064	22.442	0.00	0.00
ATOM	2373	N	GLY	150	33.201	27.029	23.017	0.00	0.00
ATOM	2374	H	GLY	150	33.016	27.835	23.534	0.00	0.00
ATOM	2375	CA	GLY	150	34.491	26.931	22.360	0.00	0.00

ATOM	2376	HA2	GLY	150	35.081	27.729	22.696	0.00	0.00
ATOM	2377	HA3	GLY	150	34.955	26.037	22.660	0.00	0.00
ATOM	2378	C	GLY	150	34.493	26.972	20.853	0.00	0.00
ATOM	2379	O	GLY	150	35.477	26.627	20.253	0.00	0.00
ATOM	2380	N	LEU	151	33.408	27.370	20.231	0.00	0.00
ATOM	2381	H	LEU	151	32.656	27.675	20.780	0.00	0.00
ATOM	2382	CA	LEU	151	33.238	27.368	18.795	0.00	0.00
ATOM	2383	HA	LEU	151	33.841	26.581	18.388	0.00	0.00
ATOM	2384	CB	LEU	151	31.790	27.063	18.440	0.00	0.00
ATOM	2385	HB2	LEU	151	31.212	27.758	18.850	0.00	0.00
ATOM	2386	HB3	LEU	151	31.672	27.129	17.454	0.00	0.00
ATOM	2387	CG	LEU	151	31.221	25.790	18.819	0.00	0.00
ATOM	2388	HG	LEU	151	31.321	25.771	19.684	0.00	0.00
ATOM	2389	CD1	LEU	151	29.953	25.607	18.549	0.00	0.00
ATOM	2390	1HD1	LEU	151	29.595	25.377	18.710	0.00	0.00
ATOM	2391	2HD1	LEU	151	29.638	25.823	18.478	0.00	0.00
ATOM	2392	3HD1	LEU	151	29.699	25.478	18.277	0.00	0.00
ATOM	2393	CD2	LEU	151	31.709	24.707	18.303	0.00	0.00
ATOM	2394	1HD2	LEU	151	31.744	24.509	18.087	0.00	0.00
ATOM	2395	2HD2	LEU	151	31.937	24.480	18.123	0.00	0.00
ATOM	2396	3HD2	LEU	151	31.803	24.335	18.341	0.00	0.00
ATOM	2397	C	LEU	151	33.761	28.654	18.182	0.00	0.00
ATOM	2398	O	LEU	151	33.033	29.437	17.623	0.00	0.00
ATOM	2399	N	THR	152	35.040	28.901	18.322	0.00	0.00
ATOM	2400	H	THR	152	35.585	28.217	18.774	0.00	0.00
ATOM	2401	CA	THR	152	35.698	30.139	17.932	0.00	0.00
ATOM	2402	HA	THR	152	35.127	30.954	18.299	0.00	0.00
ATOM	2403	CB	THR	152	37.050	30.242	18.558	0.00	0.00
ATOM	2404	HB	THR	152	37.565	31.030	18.130	0.00	0.00
ATOM	2405	CG2	THR	152	36.980	30.469	19.975	0.00	0.00
ATOM	2406	1HG2	THR	152	36.988	30.497	20.289	0.00	0.00
ATOM	2407	2HG2	THR	152	36.996	30.571	20.340	0.00	0.00
ATOM	2408	3HG2	THR	152	36.927	30.532	20.321	0.00	0.00
ATOM	2409	OG1	THR	152	37.756	29.131	18.397	0.00	0.00
ATOM	2410	HG1	THR	152	38.298	29.132	18.186	0.00	0.00
ATOM	2411	C	THR	152	35.794	30.346	16.451	0.00	0.00
ATOM	2412	O	THR	152	35.812	31.467	16.015	0.00	0.00
ATOM	2413	N	GLY	153	35.772	29.298	15.658	0.00	0.00
ATOM	2414	H	GLY	153	35.776	28.408	16.067	0.00	0.00
ATOM	2415	CA	GLY	153	35.617	29.378	14.224	0.00	0.00
ATOM	2416	HA2	GLY	153	36.322	30.064	13.820	0.00	0.00
ATOM	2417	HA3	GLY	153	35.808	28.415	13.811	0.00	0.00
ATOM	2418	C	GLY	153	34.230	29.802	13.809	0.00	0.00
ATOM	2419	O	GLY	153	34.074	30.664	13.002	0.00	0.00
ATOM	2420	N	PHE	154	33.214	29.274	14.417	0.00	0.00
ATOM	2421	H	PHE	154	33.410	28.581	15.070	0.00	0.00
ATOM	2422	CA	PHE	154	31.830	29.634	14.173	0.00	0.00
ATOM	2423	HA	PHE	154	31.672	29.645	13.113	0.00	0.00
ATOM	2424	CB	PHE	154	30.929	28.562	14.760	0.00	0.00
ATOM	2425	HB2	PHE	154	31.385	27.630	14.612	0.00	0.00
ATOM	2426	HB3	PHE	154	30.846	28.715	15.795	0.00	0.00
ATOM	2427	CG	PHE	154	29.566	28.486	14.186	0.00	0.00
ATOM	2428	CD1	PHE	154	29.333	27.882	13.124	0.00	0.00
ATOM	2429	HD1	PHE	154	30.118	27.471	12.723	0.00	0.00
ATOM	2430	CE1	PHE	154	28.084	27.817	12.583	0.00	0.00
ATOM	2431	HE1	PHE	154	27.918	27.366	11.765	0.00	0.00
ATOM	2432	CZ	PHE	154	27.057	28.343	13.101	0.00	0.00
ATOM	2433	HZ	PHE	154	26.105	28.294	12.674	0.00	0.00
ATOM	2434	CE2	PHE	154	27.278	28.938	14.161	0.00	0.00
ATOM	2435	HE2	PHE	154	26.494	29.347	14.552	0.00	0.00
ATOM	2436	CD2	PHE	154	28.530	29.009	14.707	0.00	0.00
ATOM	2437	HD2	PHE	154	28.699	29.469	15.517	0.00	0.00
ATOM	2438	C	PHE	154	31.480	31.028	14.685	0.00	0.00
ATOM	2439	O	PHE	154	30.707	31.725	14.062	0.00	0.00
ATOM	2440	N	LEU	155	32.117	31.489	15.752	0.00	0.00
ATOM	2441	H	LEU	155	32.691	30.849	16.242	0.00	0.00
ATOM	2442	CA	LEU	155	32.024	32.864	16.231	0.00	0.00
ATOM	2443	HA	LEU	155	30.996	33.058	16.483	0.00	0.00
ATOM	2444	CB	LEU	155	32.876	32.997	17.494	0.00	0.00
ATOM	2445	HB2	LEU	155	32.509	32.302	18.221	0.00	0.00
ATOM	2446	HB3	LEU	155	33.876	32.717	17.247	0.00	0.00
ATOM	2447	CG	LEU	155	32.948	34.381	18.131	0.00	0.00
ATOM	2448	HG	LEU	155	33.364	35.073	17.437	0.00	0.00
ATOM	2449	CD1	LEU	155	31.610	34.891	18.561	0.00	0.00
ATOM	2450	1HD1	LEU	155	31.290	34.736	18.999	0.00	0.00
ATOM	2451	2HD1	LEU	155	31.454	35.430	18.718	0.00	0.00
ATOM	2452	3HD1	LEU	155	31.125	34.904	18.284	0.00	0.00
ATOM	2453	CD2	LEU	155	33.843	34.326	19.338	0.00	0.00
ATOM	2454	1HD2	LEU	155	34.065	34.589	19.650	0.00	0.00
ATOM	2455	2HD2	LEU	155	33.884	34.163	19.778	0.00	0.00
ATOM	2456	3HD2	LEU	155	34.246	34.194	19.461	0.00	0.00
ATOM	2457	C	LEU	155	32.428	33.887	15.166	0.00	0.00
ATOM	2458	O	LEU	155	31.785	34.917	15.034	0.00	0.00
ATOM	2459	N	GLY	156	33.436	33.589	14.355	0.00	0.00
ATOM	2460	H	GLY	156	33.931	32.743	14.518	0.00	0.00
ATOM	2461	CA	GLY	156	33.816	34.405	13.211	0.00	0.00
ATOM	2462	HA2	GLY	156	34.018	35.408	13.532	0.00	0.00
ATOM	2463	HA3	GLY	156	34.713	34.006	12.782	0.00	0.00
ATOM	2464	C	GLY	156	32.756	34.458	12.120	0.00	0.00
ATOM	2465	O	GLY	156	32.493	35.507	11.584	0.00	0.00
ATOM	2466	N	GLN	157	32.076	33.359	11.852	0.00	0.00
ATOM	2467	H	GLN	157	32.322	32.543	12.346	0.00	0.00
ATOM	2468	CA	GLN	157	30.977	33.276	10.892	0.00	0.00
ATOM	2469	HA	GLN	157	31.284	33.779	9.989	0.00	0.00
ATOM	2470	CB	GLN	157	30.683	31.822	10.538	0.00	0.00
ATOM	2471	HB2	GLN	157	30.427	31.273	11.414	0.00	0.00
ATOM	2472	HB3	GLN	157	29.844	31.803	9.882	0.00	0.00
ATOM	2473	CG	GLN	157	31.844	31.138	9.860	0.00	0.00
ATOM	2474	HG2	GLN	157	32.043	31.605	9.004	0.00	0.00
ATOM	2475	HG3	GLN	157	32.662	31.206	10.432	0.00	0.00
ATOM	2476	CD	GLN	157	31.657	29.743	9.555	0.00	0.00
ATOM	2477	OE1	GLN	157	31.020	29.125	9.606	0.00	0.00
ATOM	2478	NE2	GLN	157	32.205	29.188	9.227	0.00	0.00
ATOM	2479	1HE2	GLN	157	32.082	28.285	9.013	0.00	0.00
ATOM	2480	2HE2	GLN	157	32.750	29.668	9.166	0.00	0.00

ATOM	2481	C	GLN	157	29.715	33.993	11.380	0.00	0.00
ATOM	2482	O	GLN	157	29.075	34.684	10.606	0.00	0.00
ATOM	2483	N	VAL	158	29.394	33.912	12.667	0.00	0.00
ATOM	2484	H	VAL	158	29.919	33.272	13.215	0.00	0.00
ATOM	2485	CA	VAL	158	28.326	34.687	13.301	0.00	0.00
ATOM	2486	HA	VAL	158	27.418	34.556	12.734	0.00	0.00
ATOM	2487	CB	VAL	158	28.062	34.200	14.733	0.00	0.00
ATOM	2488	HB	VAL	158	28.986	34.159	15.262	0.00	0.00
ATOM	2489	CG1	VAL	158	27.120	35.085	15.504	0.00	0.00
ATOM	2490	1HG1	VAL	158	27.227	35.833	15.521	0.00	0.00
ATOM	2491	2HG1	VAL	158	26.392	35.101	15.330	0.00	0.00
ATOM	2492	3HG1	VAL	158	27.066	34.971	16.245	0.00	0.00
ATOM	2493	CG2	VAL	158	27.460	32.821	14.737	0.00	0.00
ATOM	2494	1HG2	VAL	158	27.322	32.476	14.442	0.00	0.00
ATOM	2495	2HG2	VAL	158	27.554	32.387	14.896	0.00	0.00
ATOM	2496	3HG2	VAL	158	27.076	32.580	14.876	0.00	0.00
ATOM	2497	C	VAL	158	28.645	36.175	13.270	0.00	0.00
ATOM	2498	O	VAL	158	27.785	36.966	12.946	0.00	0.00
ATOM	2499	N	THR	159	29.887	36.566	13.527	0.00	0.00
ATOM	2500	H	THR	159	30.543	35.877	13.799	0.00	0.00
ATOM	2501	CA	THR	159	30.344	37.955	13.447	0.00	0.00
ATOM	2502	HA	THR	159	29.729	38.566	14.087	0.00	0.00
ATOM	2503	CB	THR	159	31.787	38.081	13.921	0.00	0.00
ATOM	2504	HB	THR	159	32.414	37.442	13.335	0.00	0.00
ATOM	2505	CG2	THR	159	32.332	39.486	13.847	0.00	0.00
ATOM	2506	1HG2	THR	159	32.493	39.809	13.872	0.00	0.00
ATOM	2507	2HG2	THR	159	32.490	39.794	13.783	0.00	0.00
ATOM	2508	3HG2	THR	159	32.432	39.853	13.819	0.00	0.00
ATOM	2509	OG1	THR	159	31.879	37.687	15.255	0.00	0.00
ATOM	2510	HG1	THR	159	31.874	36.790	15.295	0.00	0.00
ATOM	2511	C	THR	159	30.199	38.499	12.034	0.00	0.00
ATOM	2512	O	THR	159	29.691	39.592	11.859	0.00	0.00
ATOM	2513	N	ARG	160	30.564	37.726	11.019	0.00	0.00
ATOM	2514	H	ARG	160	30.996	36.857	11.225	0.00	0.00
ATOM	2515	CA	ARG	160	30.422	38.127	9.620	0.00	0.00
ATOM	2516	HA	ARG	160	30.791	39.137	9.547	0.00	0.00
ATOM	2517	CB	ARG	160	31.271	37.225	8.724	0.00	0.00
ATOM	2518	HB2	ARG	160	32.241	37.112	9.164	0.00	0.00
ATOM	2519	HB3	ARG	160	30.823	36.258	8.679	0.00	0.00
ATOM	2520	CG	ARG	160	31.448	37.756	7.313	0.00	0.00
ATOM	2521	HG2	ARG	160	31.923	37.019	6.713	0.00	0.00
ATOM	2522	HG3	ARG	160	30.502	37.960	6.890	0.00	0.00
ATOM	2523	CD	ARG	160	32.292	38.991	7.255	0.00	0.00
ATOM	2524	HD2	ARG	160	32.025	39.626	8.009	0.00	0.00
ATOM	2525	HD3	ARG	160	33.263	38.729	7.388	0.00	0.00
ATOM	2526	NE	ARG	160	32.187	39.694	6.040	0.00	0.00
ATOM	2527	HE	ARG	160	31.730	39.245	5.330	0.00	0.00
ATOM	2528	CZ	ARG	160	32.640	40.872	5.780	0.00	0.00
ATOM	2529	NH1	ARG	160	32.432	41.392	4.672	0.00	0.00
ATOM	2530	1HH1	ARG	160	31.928	40.900	4.029	0.00	0.00
ATOM	2531	2HH1	ARG	160	32.772	42.275	4.469	0.00	0.00
ATOM	2532	NH2	ARG	160	33.294	41.561	6.586	0.00	0.00
ATOM	2533	1HH2	ARG	160	33.532	41.184	7.445	0.00	0.00
ATOM	2534	2HH2	ARG	160	33.611	42.449	6.328	0.00	0.00
ATOM	2535	C	ARG	160	28.963	38.193	9.174	0.00	0.00
ATOM	2536	O	ARG	160	28.605	39.106	8.456	0.00	0.00
ATOM	2537	N	PHE	161	28.103	37.304	9.655	0.00	0.00
ATOM	2538	H	PHE	161	28.459	36.565	10.214	0.00	0.00
ATOM	2539	CA	PHE	161	26.669	37.338	9.381	0.00	0.00
ATOM	2540	HA	PHE	161	26.530	37.320	8.311	0.00	0.00
ATOM	2541	CB	PHE	161	25.991	36.102	9.962	0.00	0.00
ATOM	2542	HB2	PHE	161	26.343	35.246	9.462	0.00	0.00
ATOM	2543	HB3	PHE	161	26.266	36.003	10.968	0.00	0.00
ATOM	2544	CG	PHE	161	24.520	36.121	9.881	0.00	0.00
ATOM	2545	CD1	PHE	161	23.790	36.479	10.926	0.00	0.00
ATOM	2546	HD1	PHE	161	24.267	36.719	11.793	0.00	0.00
ATOM	2547	CE1	PHE	161	22.441	36.554	10.833	0.00	0.00
ATOM	2548	HE1	PHE	161	21.890	36.851	11.624	0.00	0.00
ATOM	2549	CZ	PHE	161	21.817	36.264	9.700	0.00	0.00
ATOM	2550	HZ	PHE	161	20.787	36.325	9.627	0.00	0.00
ATOM	2551	CE2	PHE	161	22.536	35.893	8.666	0.00	0.00
ATOM	2552	HE2	PHE	161	22.052	35.661	7.807	0.00	0.00
ATOM	2553	CD2	PHE	161	23.886	35.822	8.754	0.00	0.00
ATOM	2554	HD2	PHE	161	24.436	35.548	7.954	0.00	0.00
ATOM	2555	C	PHE	161	26.009	38.619	9.893	0.00	0.00
ATOM	2556	O	PHE	161	25.212	39.201	9.179	0.00	0.00
ATOM	2557	N	VAL	162	26.354	39.096	11.087	0.00	0.00
ATOM	2558	H	VAL	162	26.994	38.565	11.633	0.00	0.00
ATOM	2559	CA	VAL	162	25.783	40.327	11.653	0.00	0.00
ATOM	2560	HA	VAL	162	24.711	40.234	11.609	0.00	0.00
ATOM	2561	CB	VAL	162	26.163	40.511	13.123	0.00	0.00
ATOM	2562	HB	VAL	162	27.158	40.396	13.225	0.00	0.00
ATOM	2563	CG1	VAL	162	25.824	41.793	13.683	0.00	0.00
ATOM	2564	1HG1	VAL	162	26.124	42.286	13.566	0.00	0.00
ATOM	2565	2HG1	VAL	162	25.311	42.094	13.591	0.00	0.00
ATOM	2566	3HG1	VAL	162	25.811	41.933	14.314	0.00	0.00
ATOM	2567	CG2	VAL	162	25.532	39.543	13.982	0.00	0.00
ATOM	2568	1HG2	VAL	162	25.409	39.325	14.250	0.00	0.00
ATOM	2569	2HG2	VAL	162	25.344	39.314	14.165	0.00	0.00
ATOM	2570	3HG2	VAL	162	25.383	39.270	14.165	0.00	0.00
ATOM	2571	C	VAL	162	26.125	41.550	10.807	0.00	0.00
ATOM	2572	O	VAL	162	25.242	42.342	10.519	0.00	0.00
ATOM	2573	N	VAL	163	27.359	41.690	10.335	0.00	0.00
ATOM	2574	H	VAL	163	28.038	41.006	10.576	0.00	0.00
ATOM	2575	CA	VAL	163	27.745	42.840	9.495	0.00	0.00
ATOM	2576	HA	VAL	163	27.248	43.707	9.902	0.00	0.00
ATOM	2577	CB	VAL	163	29.238	43.164	9.556	0.00	0.00
ATOM	2578	HB	VAL	163	29.381	44.091	9.038	0.00	0.00
ATOM	2579	CG1	VAL	163	29.680	43.380	10.977	0.00	0.00
ATOM	2580	1HG1	VAL	163	29.563	42.890	11.475	0.00	0.00
ATOM	2581	2HG1	VAL	163	30.374	43.486	11.122	0.00	0.00
ATOM	2582	3HG1	VAL	163	29.433	43.939	11.355	0.00	0.00
ATOM	2583	CG2	VAL	163	30.138	42.148	8.916	0.00	0.00
ATOM	2584	1HG2	VAL	163	30.237	41.873	8.571	0.00	0.00
ATOM	2585	2HG2	VAL	163	30.524	42.077	8.768	0.00	0.00

ATOM	2586	3HG2	VAL	163	30.331	41.769	8.942	0.00	0.00
ATOM	2587	C	VAL	163	27.246	42.735	8.060	0.00	0.00
ATOM	2588	O	VAL	163	26.898	43.742	7.467	0.00	0.00
ATOM	2589	N	ASP	164	27.114	41.531	7.524	0.00	0.00
ATOM	2590	H	ASP	164	27.457	40.752	8.042	0.00	0.00
ATOM	2591	CA	ASP	164	26.496	41.277	6.224	0.00	0.00
ATOM	2592	HA	ASP	164	26.946	41.936	5.498	0.00	0.00
ATOM	2593	CB	ASP	164	26.773	39.838	5.815	0.00	0.00
ATOM	2594	HB2	ASP	164	27.828	39.657	5.849	0.00	0.00
ATOM	2595	HB3	ASP	164	26.309	39.166	6.503	0.00	0.00
ATOM	2596	CG	ASP	164	26.277	39.543	4.425	0.00	0.00
ATOM	2597	OD1	ASP	164	26.871	39.653	3.575	0.00	0.00
ATOM	2598	OD2	ASP	164	25.281	39.236	4.170	0.00	0.00
ATOM	2599	C	ASP	164	24.993	41.567	6.245	0.00	0.00
ATOM	2600	O	ASP	164	24.469	42.152	5.307	0.00	0.00
ATOM	2601	N	PHE	165	24.304	41.233	7.332	0.00	0.00
ATOM	2602	H	PHE	165	24.768	40.720	8.049	0.00	0.00
ATOM	2603	CA	PHE	165	22.905	41.596	7.545	0.00	0.00
ATOM	2604	HA	PHE	165	22.335	41.267	6.687	0.00	0.00
ATOM	2605	CB	PHE	165	22.348	40.886	8.784	0.00	0.00
ATOM	2606	HB2	PHE	165	22.485	39.828	8.666	0.00	0.00
ATOM	2607	HB3	PHE	165	22.906	41.185	9.650	0.00	0.00
ATOM	2608	CG	PHE	165	20.886	41.146	9.029	0.00	0.00
ATOM	2609	CD1	PHE	165	19.930	40.314	8.495	0.00	0.00
ATOM	2610	HD1	PHE	165	20.230	39.469	7.949	0.00	0.00
ATOM	2611	CE1	PHE	165	18.581	40.603	8.649	0.00	0.00
ATOM	2612	HE1	PHE	165	17.848	39.979	8.226	0.00	0.00
ATOM	2613	CZ	PHE	165	18.185	41.726	9.333	0.00	0.00
ATOM	2614	HZ	PHE	165	17.158	41.966	9.417	0.00	0.00
ATOM	2615	CE2	PHE	165	19.136	42.537	9.900	0.00	0.00
ATOM	2616	HE2	PHE	165	18.829	43.385	10.439	0.00	0.00
ATOM	2617	CD2	PHE	165	20.482	42.242	9.756	0.00	0.00
ATOM	2618	HD2	PHE	165	21.204	42.877	10.181	0.00	0.00
ATOM	2619	C	PHE	165	22.749	43.114	7.645	0.00	0.00
ATOM	2620	O	PHE	165	21.890	43.684	6.994	0.00	0.00
ATOM	2621	N	MET	166	23.610	43.787	8.408	0.00	0.00
ATOM	2622	H	MET	166	24.280	43.268	8.927	0.00	0.00
ATOM	2623	CA	MET	166	23.603	45.247	8.509	0.00	0.00
ATOM	2624	HA	MET	166	22.617	45.549	8.825	0.00	0.00
ATOM	2625	CB	MET	166	24.617	45.740	9.539	0.00	0.00
ATOM	2626	HB2	MET	166	25.563	45.278	9.350	0.00	0.00
ATOM	2627	HB3	MET	166	24.741	46.802	9.425	0.00	0.00
ATOM	2628	CG	MET	166	24.199	45.457	10.961	0.00	0.00
ATOM	2629	HG2	MET	166	23.329	45.566	11.075	0.00	0.00
ATOM	2630	HG3	MET	166	24.351	44.614	11.170	0.00	0.00
ATOM	2631	SD	MET	166	24.821	46.248	12.169	0.00	0.00
ATOM	2632	CE	MET	166	24.662	46.205	13.247	0.00	0.00
ATOM	2633	HE1	MET	166	24.582	46.266	13.463	0.00	0.00
ATOM	2634	HE2	MET	166	24.610	46.127	13.445	0.00	0.00
ATOM	2635	HE3	MET	166	24.708	46.211	13.497	0.00	0.00
ATOM	2636	C	MET	166	23.840	45.927	7.162	0.00	0.00
ATOM	2637	O	MET	166	23.173	46.903	6.857	0.00	0.00
ATOM	2638	N	LEU	167	24.727	45.393	6.330	0.00	0.00
ATOM	2639	H	LEU	167	25.264	44.623	6.656	0.00	0.00
ATOM	2640	CA	LEU	167	24.969	45.877	4.977	0.00	0.00
ATOM	2641	HA	LEU	167	25.161	46.939	5.031	0.00	0.00
ATOM	2642	CB	LEU	167	26.222	45.193	4.423	0.00	0.00
ATOM	2643	HB2	LEU	167	27.039	45.406	5.081	0.00	0.00
ATOM	2644	HB3	LEU	167	26.068	44.133	4.437	0.00	0.00
ATOM	2645	CG	LEU	167	26.623	45.584	3.006	0.00	0.00
ATOM	2646	HG	LEU	167	25.840	45.312	2.338	0.00	0.00
ATOM	2647	CD1	LEU	167	26.894	47.052	2.860	0.00	0.00
ATOM	2648	1HD1	LEU	167	27.076	47.411	2.979	0.00	0.00
ATOM	2649	2HD1	LEU	167	27.029	47.361	2.625	0.00	0.00
ATOM	2650	3HD1	LEU	167	26.758	47.468	2.835	0.00	0.00
ATOM	2651	CD2	LEU	167	27.870	44.838	2.607	0.00	0.00
ATOM	2652	1HD2	LEU	167	28.028	44.338	2.684	0.00	0.00
ATOM	2653	2HD2	LEU	167	28.099	44.714	2.128	0.00	0.00
ATOM	2654	3HD2	LEU	167	28.383	44.911	2.706	0.00	0.00
ATOM	2655	C	LEU	167	23.741	45.689	4.084	0.00	0.00
ATOM	2656	O	LEU	167	23.289	46.630	3.478	0.00	0.00
ATOM	2657	N	HIP	168	23.164	44.498	4.045	0.00	0.00
ATOM	2658	H	HIP	168	23.579	43.785	4.592	0.00	0.00
ATOM	2659	CA	HIP	168	22.071	44.135	3.135	0.00	0.00
ATOM	2660	HA	HIP	168	22.220	44.674	2.217	0.00	0.00
ATOM	2661	CB	HIP	168	22.176	42.651	2.806	0.00	0.00
ATOM	2662	HB2	HIP	168	22.152	42.072	3.708	0.00	0.00
ATOM	2663	HB3	HIP	168	21.334	42.368	2.210	0.00	0.00
ATOM	2664	CG	HIP	168	23.401	42.317	2.034	0.00	0.00
ATOM	2665	ND1	HIP	168	24.427	41.511	2.406	0.00	0.00
ATOM	2666	HD1	HIP	168	24.506	41.033	3.243	0.00	0.00
ATOM	2667	CE1	HIP	168	25.318	41.473	1.449	0.00	0.00
ATOM	2668	HE1	HIP	168	26.218	40.920	1.461	0.00	0.00
ATOM	2669	NE2	HIP	168	24.888	42.228	0.489	0.00	0.00
ATOM	2670	HE2	HIP	168	25.355	42.368	-0.335	0.00	0.00
ATOM	2671	CD2	HIP	168	23.692	42.761	0.837	0.00	0.00
ATOM	2672	HD2	HIP	168	23.091	43.404	0.276	0.00	0.00
ATOM	2673	C	HIP	168	20.674	44.556	3.582	0.00	0.00
ATOM	2674	O	HIP	168	19.768	44.341	2.877	0.00	0.00
ATOM	2675	N	HIP	169	20.497	45.170	4.721	0.00	0.00
ATOM	2676	H	HIP	169	21.282	45.214	5.275	0.00	0.00
ATOM	2677	CA	HIP	169	19.250	45.762	5.217	0.00	0.00
ATOM	2678	HA	HIP	169	18.524	45.725	4.422	0.00	0.00
ATOM	2679	CB	HIP	169	18.680	44.923	6.366	0.00	0.00
ATOM	2680	HB2	HIP	169	19.411	44.809	7.141	0.00	0.00
ATOM	2681	HB3	HIP	169	17.839	45.435	6.794	0.00	0.00
ATOM	2682	CG	HIP	169	18.204	43.575	5.930	0.00	0.00
ATOM	2683	ND1	HIP	169	16.986	43.281	5.468	0.00	0.00
ATOM	2684	HD1	HIP	169	16.262	43.918	5.388	0.00	0.00
ATOM	2685	CE1	HIP	169	16.961	41.999	5.113	0.00	0.00
ATOM	2686	HE1	HIP	169	16.160	41.489	4.685	0.00	0.00
ATOM	2687	NE2	HIP	169	18.119	41.473	5.344	0.00	0.00
ATOM	2688	HE2	HIP	169	18.380	40.544	5.139	0.00	0.00
ATOM	2689	CD2	HIP	169	18.912	42.446	5.857	0.00	0.00
ATOM	2690	HD2	HIP	169	19.900	42.345	6.138	0.00	0.00

ATOM	2691	C	HIP	169	19.370	47.258	5.540	0.00	0.00
ATOM	2692	O	HIP	169	18.726	47.748	6.441	0.00	0.00
ATOM	2693	N	CYS	170	20.218	47.982	4.823	0.00	0.00
ATOM	2694	H	CYS	170	20.665	47.516	4.073	0.00	0.00
ATOM	2695	CA	CYS	170	20.436	49.431	4.916	0.00	0.00
ATOM	2696	HA	CYS	170	21.251	49.653	4.251	0.00	0.00
ATOM	2697	CB	CYS	170	19.240	50.173	4.339	0.00	0.00
ATOM	2698	HB2	CYS	170	18.421	49.933	4.759	0.00	0.00
ATOM	2699	HB3	CYS	170	19.322	51.114	4.450	0.00	0.00
ATOM	2700	SG	CYS	170	19.018	49.930	2.771	0.00	0.00
ATOM	2701	HG	CYS	170	18.799	50.045	2.652	0.00	0.00
ATOM	2702	C	CYS	170	20.897	49.981	6.272	0.00	0.00
ATOM	2703	O	CYS	170	20.905	51.178	6.461	0.00	0.00
ATOM	2704	N	ILE	171	21.311	49.156	7.222	0.00	0.00
ATOM	2705	H	ILE	171	21.347	48.197	7.010	0.00	0.00
ATOM	2706	CA	ILE	171	21.725	49.590	8.561	0.00	0.00
ATOM	2707	HA	ILE	171	21.057	50.382	8.870	0.00	0.00
ATOM	2708	CB	ILE	171	21.600	48.454	9.600	0.00	0.00
ATOM	2709	HB	ILE	171	22.347	47.726	9.376	0.00	0.00
ATOM	2710	CG2	ILE	171	21.881	48.971	10.998	0.00	0.00
ATOM	2711	1HG2	ILE	171	22.222	49.267	11.231	0.00	0.00
ATOM	2712	2HG2	ILE	171	21.650	49.248	11.337	0.00	0.00
ATOM	2713	3HG2	ILE	171	21.993	48.785	11.467	0.00	0.00
ATOM	2714	CG1	ILE	171	20.244	47.765	9.540	0.00	0.00
ATOM	2715	2HG1	ILE	171	19.520	48.402	9.778	0.00	0.00
ATOM	2716	3HG1	ILE	171	20.080	47.478	8.609	0.00	0.00
ATOM	2717	CD1	ILE	171	20.017	46.568	10.348	0.00	0.00
ATOM	2718	1HD1	ILE	171	20.063	46.308	10.601	0.00	0.00
ATOM	2719	2HD1	ILE	171	19.847	46.340	10.577	0.00	0.00
ATOM	2720	3HD1	ILE	171	19.957	46.195	10.438	0.00	0.00
ATOM	2721	C	ILE	171	23.137	50.181	8.528	0.00	0.00
ATOM	2722	O	ILE	171	23.385	51.182	9.170	0.00	0.00
ATOM	2723	N	ALA	172	24.053	49.628	7.740	0.00	0.00
ATOM	2724	H	ALA	172	23.797	48.832	7.204	0.00	0.00
ATOM	2725	CA	ALA	172	25.384	50.207	7.548	0.00	0.00
ATOM	2726	HA	ALA	172	25.812	50.379	8.523	0.00	0.00
ATOM	2727	CB	ALA	172	26.273	49.205	6.833	0.00	0.00
ATOM	2728	HB1	ALA	172	26.365	48.954	6.503	0.00	0.00
ATOM	2729	HB2	ALA	172	26.646	49.110	6.657	0.00	0.00
ATOM	2730	HB3	ALA	172	26.473	48.839	6.828	0.00	0.00
ATOM	2731	C	ALA	172	25.327	51.571	6.843	0.00	0.00
ATOM	2732	O	ALA	172	26.071	52.472	7.199	0.00	0.00
ATOM	2733	N	ARG	173	24.381	51.774	5.925	0.00	0.00
ATOM	2734	H	ARG	173	23.879	50.974	5.616	0.00	0.00
ATOM	2735	CA	ARG	173	24.044	53.077	5.337	0.00	0.00
ATOM	2736	HA	ARG	173	24.956	53.528	4.971	0.00	0.00
ATOM	2737	CB	ARG	173	23.089	52.865	4.162	0.00	0.00
ATOM	2738	HB2	ARG	173	23.485	52.093	3.545	0.00	0.00
ATOM	2739	HB3	ARG	173	22.140	52.543	4.519	0.00	0.00
ATOM	2740	CG	ARG	173	22.894	54.095	3.315	0.00	0.00
ATOM	2741	HG2	ARG	173	22.525	54.879	3.922	0.00	0.00
ATOM	2742	HG3	ARG	173	23.826	54.394	2.923	0.00	0.00
ATOM	2743	CD	ARG	173	21.923	53.878	2.171	0.00	0.00
ATOM	2744	HD2	ARG	173	20.999	53.602	2.572	0.00	0.00
ATOM	2745	HD3	ARG	173	21.798	54.781	1.653	0.00	0.00
ATOM	2746	NE	ARG	173	22.372	52.878	1.258	0.00	0.00
ATOM	2747	HE	ARG	173	23.240	52.496	1.324	0.00	0.00
ATOM	2748	CZ	ARG	173	21.779	52.387	0.374	0.00	0.00
ATOM	2749	NH1	ARG	173	20.650	52.770	0.100	0.00	0.00
ATOM	2750	1HH1	ARG	173	20.187	53.472	0.552	0.00	0.00
ATOM	2751	2HH1	ARG	173	20.253	52.365	-0.588	0.00	0.00
ATOM	2752	NH2	ARG	173	22.337	51.470	-0.250	0.00	0.00
ATOM	2753	1HH2	ARG	173	23.203	51.159	-0.005	0.00	0.00
ATOM	2754	2HH2	ARG	173	21.916	51.096	-0.922	0.00	0.00
ATOM	2755	C	ARG	173	23.468	54.047	6.360	0.00	0.00
ATOM	2756	O	ARG	173	23.867	55.198	6.387	0.00	0.00
ATOM	2757	N	TRP	174	22.600	53.597	7.257	0.00	0.00
ATOM	2758	H	TRP	174	22.285	52.659	7.169	0.00	0.00
ATOM	2759	CA	TRP	174	22.083	54.406	8.358	0.00	0.00
ATOM	2760	HA	TRP	174	21.637	55.302	7.946	0.00	0.00
ATOM	2761	CB	TRP	174	20.974	53.650	9.086	0.00	0.00
ATOM	2762	HB2	TRP	174	20.246	53.337	8.363	0.00	0.00
ATOM	2763	HB3	TRP	174	21.375	52.764	9.538	0.00	0.00
ATOM	2764	CG	TRP	174	20.266	54.417	10.148	0.00	0.00
ATOM	2765	CD1	TRP	174	19.188	55.174	9.972	0.00	0.00
ATOM	2766	HD1	TRP	174	18.708	55.314	9.040	0.00	0.00
ATOM	2767	NE1	TRP	174	18.807	55.732	11.156	0.00	0.00
ATOM	2768	HE1	TRP	174	18.037	56.340	11.255	0.00	0.00
ATOM	2769	CE2	TRP	174	19.630	55.365	12.161	0.00	0.00
ATOM	2770	CZ2	TRP	174	19.669	55.682	13.505	0.00	0.00
ATOM	2771	HZ2	TRP	174	18.947	56.335	13.923	0.00	0.00
ATOM	2772	CH2	TRP	174	20.666	55.141	14.283	0.00	0.00
ATOM	2773	HH2	TRP	174	20.717	55.388	15.310	0.00	0.00
ATOM	2774	CZ3	TRP	174	21.598	54.287	13.716	0.00	0.00
ATOM	2775	HZ3	TRP	174	22.356	53.872	14.317	0.00	0.00
ATOM	2776	CE3	TRP	174	21.543	53.966	12.369	0.00	0.00
ATOM	2777	HE3	TRP	174	22.251	53.300	11.944	0.00	0.00
ATOM	2778	CD2	TRP	174	20.570	54.511	11.551	0.00	0.00
ATOM	2779	C	TRP	174	23.195	54.863	9.310	0.00	0.00
ATOM	2780	O	TRP	174	23.218	56.020	9.691	0.00	0.00
ATOM	2781	N	ILE	175	24.164	54.005	9.631	0.00	0.00
ATOM	2782	H	ILE	175	24.070	53.065	9.315	0.00	0.00
ATOM	2783	CA	ILE	175	25.335	54.364	10.438	0.00	0.00
ATOM	2784	HA	ILE	175	24.983	54.900	11.309	0.00	0.00
ATOM	2785	CB	ILE	175	26.069	53.107	10.940	0.00	0.00
ATOM	2786	HB	ILE	175	26.314	52.500	10.089	0.00	0.00
ATOM	2787	CG2	ILE	175	27.367	53.467	11.661	0.00	0.00
ATOM	2788	1HG2	ILE	175	27.821	53.550	11.616	0.00	0.00
ATOM	2789	2HG2	ILE	175	27.576	53.754	11.917	0.00	0.00
ATOM	2790	3HG2	ILE	175	27.694	53.340	11.977	0.00	0.00
ATOM	2791	CG1	ILE	175	25.186	52.279	11.884	0.00	0.00
ATOM	2792	2HG1	ILE	175	25.072	52.780	12.799	0.00	0.00
ATOM	2793	3HG1	ILE	175	24.218	52.168	11.463	0.00	0.00
ATOM	2794	CD1	ILE	175	25.681	50.893	12.159	0.00	0.00
ATOM	2795	1HD1	ILE	175	25.799	50.550	12.147	0.00	0.00

ATOM	2796	ZHD1	ILE	175	25.860	50.580	12.268	0.00	0.00
ATOM	2797	3HD1	ILE	175	25.717	50.548	12.268	0.00	0.00
ATOM	2798	C	ILE	175	26.257	55.335	9.689	0.00	0.00
ATOM	2799	O	ILE	175	26.733	56.292	10.280	0.00	0.00
ATOM	2800	N	ALA	176	26.461	55.168	8.383	0.00	0.00
ATOM	2801	H	ALA	176	26.075	54.361	7.941	0.00	0.00
ATOM	2802	CA	ALA	176	27.221	56.105	7.558	0.00	0.00
ATOM	2803	HA	ALA	176	28.212	56.213	7.974	0.00	0.00
ATOM	2804	CB	ALA	176	27.366	55.530	6.150	0.00	0.00
ATOM	2805	HB1	ALA	176	27.344	55.194	5.887	0.00	0.00
ATOM	2806	HB2	ALA	176	27.256	55.536	5.729	0.00	0.00
ATOM	2807	HB3	ALA	176	27.623	55.444	5.797	0.00	0.00
ATOM	2808	C	ALA	176	26.583	57.502	7.534	0.00	0.00
ATOM	2809	O	ALA	176	27.264	58.491	7.739	0.00	0.00
ATOM	2810	N	GLN	177	25.267	57.584	7.401	0.00	0.00
ATOM	2811	H	GLN	177	24.771	56.741	7.212	0.00	0.00
ATOM	2812	CA	GLN	177	24.495	58.826	7.473	0.00	0.00
ATOM	2813	HA	GLN	177	24.953	59.562	6.834	0.00	0.00
ATOM	2814	CB	GLN	177	23.084	58.568	6.955	0.00	0.00
ATOM	2815	HB2	GLN	177	22.683	57.709	7.453	0.00	0.00
ATOM	2816	HB3	GLN	177	22.463	59.408	7.191	0.00	0.00
ATOM	2817	CG	GLN	177	23.045	58.349	5.452	0.00	0.00
ATOM	2818	HG2	GLN	177	23.355	59.228	4.972	0.00	0.00
ATOM	2819	HG3	GLN	177	23.714	57.586	5.175	0.00	0.00
ATOM	2820	CD	GLN	177	21.710	57.990	4.920	0.00	0.00
ATOM	2821	OE1	GLN	177	20.801	57.767	5.517	0.00	0.00
ATOM	2822	NE2	GLN	177	21.544	57.908	3.762	0.00	0.00
ATOM	2823	1HE2	GLN	177	20.672	57.688	3.411	0.00	0.00
ATOM	2824	ZHE2	GLN	177	22.278	58.098	3.258	0.00	0.00
ATOM	2825	C	GLN	177	24.462	59.440	8.875	0.00	0.00
ATOM	2826	O	GLN	177	24.336	60.627	9.006	0.00	0.00
ATOM	2827	N	ARG	178	24.655	58.659	9.921	0.00	0.00
ATOM	2828	H	ARG	178	24.678	57.693	9.738	0.00	0.00
ATOM	2829	CA	ARG	178	24.835	59.090	11.318	0.00	0.00
ATOM	2830	HA	ARG	178	24.212	59.952	11.485	0.00	0.00
ATOM	2831	CB	ARG	178	24.345	57.964	12.236	0.00	0.00
ATOM	2832	HB2	ARG	178	23.467	57.533	11.803	0.00	0.00
ATOM	2833	HB3	ARG	178	25.089	57.203	12.274	0.00	0.00
ATOM	2834	CG	ARG	178	23.982	58.371	13.656	0.00	0.00
ATOM	2835	HG2	ARG	178	24.591	58.285	14.187	0.00	0.00
ATOM	2836	HG3	ARG	178	23.753	59.153	13.762	0.00	0.00
ATOM	2837	CD	ARG	178	23.085	57.793	14.217	0.00	0.00
ATOM	2838	HD2	ARG	178	22.470	57.930	13.753	0.00	0.00
ATOM	2839	HD3	ARG	178	23.299	57.021	14.017	0.00	0.00
ATOM	2840	NE	ARG	178	22.745	58.025	15.599	0.00	0.00
ATOM	2841	HE	ARG	178	23.380	57.721	16.255	0.00	0.00
ATOM	2842	CZ	ARG	178	21.673	58.526	16.082	0.00	0.00
ATOM	2843	NH1	ARG	178	21.500	58.571	17.330	0.00	0.00
ATOM	2844	1HH1	ARG	178	22.177	58.222	17.922	0.00	0.00
ATOM	2845	ZHH1	ARG	178	20.683	58.956	17.688	0.00	0.00
ATOM	2846	NH2	ARG	178	20.757	58.984	15.366	0.00	0.00
ATOM	2847	1HH2	ARG	178	20.849	59.004	14.397	0.00	0.00
ATOM	2848	ZHH2	ARG	178	19.976	59.362	15.786	0.00	0.00
ATOM	2849	C	ARG	178	26.268	59.543	11.627	0.00	0.00
ATOM	2850	O	ARG	178	26.548	59.982	12.696	0.00	0.00
ATOM	2851	N	GLY	179	27.170	59.471	10.688	0.00	0.00
ATOM	2852	H	GLY	179	26.862	59.093	9.846	0.00	0.00
ATOM	2853	CA	GLY	179	28.548	59.949	10.736	0.00	0.00
ATOM	2854	HA2	GLY	179	28.719	60.549	9.882	0.00	0.00
ATOM	2855	HA3	GLY	179	28.686	60.561	11.594	0.00	0.00
ATOM	2856	C	GLY	179	29.627	58.895	10.764	0.00	0.00
ATOM	2857	O	GLY	179	30.776	59.242	10.905	0.00	0.00
ATOM	2858	N	GLY	180	29.289	57.622	10.638	0.00	0.00
ATOM	2859	H	GLY	180	28.330	57.410	10.514	0.00	0.00
ATOM	2860	CA	GLY	180	30.207	56.503	10.833	0.00	0.00
ATOM	2861	HA2	GLY	180	29.786	55.618	10.403	0.00	0.00
ATOM	2862	HA3	GLY	180	31.135	56.691	10.334	0.00	0.00
ATOM	2863	C	GLY	180	30.511	56.240	12.296	0.00	0.00
ATOM	2864	O	GLY	180	30.159	57.019	13.156	0.00	0.00
ATOM	2865	N	TRP	181	31.192	55.154	12.606	0.00	0.00
ATOM	2866	H	TRP	181	31.528	54.577	11.876	0.00	0.00
ATOM	2867	CA	TRP	181	31.466	54.754	13.982	0.00	0.00
ATOM	2868	HA	TRP	181	30.532	54.741	14.508	0.00	0.00
ATOM	2869	CB	TRP	181	32.015	53.332	14.012	0.00	0.00
ATOM	2870	HB2	TRP	181	32.758	53.212	13.245	0.00	0.00
ATOM	2871	HB3	TRP	181	32.506	53.172	14.956	0.00	0.00
ATOM	2872	CG	TRP	181	30.984	52.272	13.877	0.00	0.00
ATOM	2873	CD1	TRP	181	30.876	51.422	12.852	0.00	0.00
ATOM	2874	HD1	TRP	181	31.515	51.416	12.002	0.00	0.00
ATOM	2875	NE1	TRP	181	29.831	50.565	13.067	0.00	0.00
ATOM	2876	HE1	TRP	181	29.581	49.844	12.426	0.00	0.00
ATOM	2877	CE2	TRP	181	29.214	50.811	14.257	0.00	0.00
ATOM	2878	CZ2	TRP	181	28.136	50.219	14.906	0.00	0.00
ATOM	2879	HZ2	TRP	181	27.631	49.392	14.469	0.00	0.00
ATOM	2880	CH2	TRP	181	27.717	50.730	16.128	0.00	0.00
ATOM	2881	HH2	TRP	181	26.889	50.292	16.632	0.00	0.00
ATOM	2882	CZ3	TRP	181	28.389	51.815	16.684	0.00	0.00
ATOM	2883	HZ3	TRP	181	28.070	52.195	17.623	0.00	0.00
ATOM	2884	CE3	TRP	181	29.473	52.399	16.027	0.00	0.00
ATOM	2885	HE3	TRP	181	29.976	53.225	16.473	0.00	0.00
ATOM	2886	CD2	TRP	181	29.913	51.918	14.792	0.00	0.00
ATOM	2887	C	TRP	181	32.345	55.717	14.758	0.00	0.00
ATOM	2888	O	TRP	181	32.294	55.725	15.941	0.00	0.00
ATOM	2889	N	VAL	182	33.062	56.595	14.126	0.00	0.00
ATOM	2890	H	VAL	182	33.067	56.530	13.163	0.00	0.00
ATOM	2891	CA	VAL	182	33.787	57.686	14.766	0.00	0.00
ATOM	2892	HA	VAL	182	34.276	57.287	15.607	0.00	0.00
ATOM	2893	CB	VAL	182	34.848	58.230	13.869	0.00	0.00
ATOM	2894	HB	VAL	182	35.308	59.001	14.367	0.00	0.00
ATOM	2895	CG1	VAL	182	35.852	57.238	13.576	0.00	0.00
ATOM	2896	1HG1	VAL	182	36.459	57.491	13.080	0.00	0.00
ATOM	2897	ZHG1	VAL	182	35.614	56.551	13.228	0.00	0.00
ATOM	2898	3HG1	VAL	182	36.242	56.970	14.225	0.00	0.00
ATOM	2899	CG2	VAL	182	34.361	58.766	12.623	0.00	0.00
ATOM	2900	1HG2	VAL	182	34.177	58.642	12.196	0.00	0.00

ATOM	2901	ZHG2	VAL	182	34.517	58.988	12.296	0.00	0.00
ATOM	2902	3HG2	VAL	182	34.053	59.079	12.463	0.00	0.00
ATOM	2903	C	VAL	182	32.924	58.812	15.308	0.00	0.00
ATOM	2904	O	VAL	182	33.431	59.625	16.045	0.00	0.00
ATOM	2905	N	ALA	183	31.650	58.874	14.979	0.00	0.00
ATOM	2906	H	ALA	183	31.322	58.203	14.337	0.00	0.00
ATOM	2907	CA	ALA	183	30.723	59.889	15.455	0.00	0.00
ATOM	2908	HA	ALA	183	31.133	60.350	16.327	0.00	0.00
ATOM	2909	CB	ALA	183	30.604	60.939	14.386	0.00	0.00
ATOM	2910	HB1	ALA	183	30.635	61.157	14.080	0.00	0.00
ATOM	2911	HB2	ALA	183	30.494	61.176	14.118	0.00	0.00
ATOM	2912	HB3	ALA	183	30.598	61.255	14.189	0.00	0.00
ATOM	2913	C	ALA	183	29.340	59.379	15.867	0.00	0.00
ATOM	2914	O	ALA	183	28.668	60.034	16.635	0.00	0.00
ATOM	2915	N	ALA	184	28.884	58.241	15.385	0.00	0.00
ATOM	2916	H	ALA	184	29.454	57.772	14.735	0.00	0.00
ATOM	2917	CA	ALA	184	27.528	57.749	15.559	0.00	0.00
ATOM	2918	HA	ALA	184	26.857	58.507	15.227	0.00	0.00
ATOM	2919	CB	ALA	184	27.347	56.549	14.675	0.00	0.00
ATOM	2920	HB1	ALA	184	28.026	55.789	14.936	0.00	0.00
ATOM	2921	HB2	ALA	184	26.362	56.170	14.783	0.00	0.00
ATOM	2922	HB3	ALA	184	27.498	56.809	13.663	0.00	0.00
ATOM	2923	C	ALA	184	27.125	57.426	16.987	0.00	0.00
ATOM	2924	O	ALA	184	25.962	57.481	17.300	0.00	0.00
ATOM	2925	N	LEU	185	28.052	57.109	17.855	0.00	0.00
ATOM	2926	H	LEU	185	28.986	57.097	17.541	0.00	0.00
ATOM	2927	CA	LEU	185	27.805	56.820	19.252	0.00	0.00
ATOM	2928	HA	LEU	185	26.798	56.489	19.337	0.00	0.00
ATOM	2929	CB	LEU	185	28.711	55.689	19.687	0.00	0.00
ATOM	2930	HB2	LEU	185	28.871	55.230	19.186	0.00	0.00
ATOM	2931	HB3	LEU	185	29.331	55.898	19.891	0.00	0.00
ATOM	2932	CG	LEU	185	28.606	54.871	20.503	0.00	0.00
ATOM	2933	HG	LEU	185	28.742	55.376	20.783	0.00	0.00
ATOM	2934	CD1	LEU	185	27.906	54.305	20.756	0.00	0.00
ATOM	2935	1HD1	LEU	185	27.669	54.225	20.750	0.00	0.00
ATOM	2936	2HD1	LEU	185	27.714	54.098	20.990	0.00	0.00
ATOM	2937	3HD1	LEU	185	27.836	54.186	20.731	0.00	0.00
ATOM	2938	CD2	LEU	185	29.057	53.875	20.720	0.00	0.00
ATOM	2939	1HD2	LEU	185	28.975	53.254	20.319	0.00	0.00
ATOM	2940	2HD2	LEU	185	28.944	53.465	21.277	0.00	0.00
ATOM	2941	3HD2	LEU	185	29.588	54.178	20.738	0.00	0.00
ATOM	2942	C	LEU	185	27.929	58.038	20.137	0.00	0.00
ATOM	2943	O	LEU	185	27.371	58.075	21.182	0.00	0.00
ATOM	2944	N	ASN	186	28.596	59.060	19.708	0.00	0.00
ATOM	2945	H	ASN	186	29.009	58.970	18.840	0.00	0.00
ATOM	2946	CA	ASN	186	28.723	60.320	20.401	0.00	0.00
ATOM	2947	HA	ASN	186	28.773	60.130	21.423	0.00	0.00
ATOM	2948	CB	ASN	186	29.994	60.950	19.992	0.00	0.00
ATOM	2949	HB2	ASN	186	30.398	60.521	19.651	0.00	0.00
ATOM	2950	HB3	ASN	186	30.033	61.521	19.539	0.00	0.00
ATOM	2951	CG	ASN	186	30.710	61.395	20.640	0.00	0.00
ATOM	2952	OD1	ASN	186	30.642	61.152	21.578	0.00	0.00
ATOM	2953	ND2	ASN	186	31.414	62.054	20.160	0.00	0.00
ATOM	2954	1HD2	ASN	186	31.879	62.345	20.578	0.00	0.00
ATOM	2955	2HD2	ASN	186	31.495	62.258	19.395	0.00	0.00
ATOM	2956	C	ASN	186	27.551	61.242	20.210	0.00	0.00
ATOM	2957	O	ASN	186	27.462	62.170	20.768	0.00	0.00
ATOM	2958	N	LEU	187	26.642	60.977	19.441	0.00	0.00
ATOM	2959	H	LEU	187	26.791	60.225	19.017	0.00	0.00
ATOM	2960	CA	LEU	187	25.448	61.691	19.167	0.00	0.00
ATOM	2961	HA	LEU	187	25.589	62.656	19.367	0.00	0.00
ATOM	2962	CB	LEU	187	25.106	61.566	17.796	0.00	0.00
ATOM	2963	HB2	LEU	187	25.809	61.643	17.312	0.00	0.00
ATOM	2964	HB3	LEU	187	24.821	60.804	17.623	0.00	0.00
ATOM	2965	CG	LEU	187	24.230	62.331	17.263	0.00	0.00
ATOM	2966	HG	LEU	187	23.855	62.265	17.621	0.00	0.00
ATOM	2967	CD1	LEU	187	24.291	63.179	17.025	0.00	0.00
ATOM	2968	1HD1	LEU	187	24.420	63.440	17.042	0.00	0.00
ATOM	2969	2HD1	LEU	187	24.093	63.428	17.013	0.00	0.00
ATOM	2970	3HD1	LEU	187	24.395	63.290	16.849	0.00	0.00
ATOM	2971	CD2	LEU	187	23.770	62.348	16.416	0.00	0.00
ATOM	2972	1HD2	LEU	187	23.634	62.588	16.116	0.00	0.00
ATOM	2973	2HD2	LEU	187	23.628	62.209	16.434	0.00	0.00
ATOM	2974	3HD2	LEU	187	23.699	62.270	16.088	0.00	0.00
ATOM	2975	C	LEU	187	24.392	61.276	19.980	0.00	0.00
ATOM	2976	O	LEU	187	24.073	60.286	20.089	0.00	0.00

END

DATASET 58

HEADER APOPTOSIS 29-OCT-11 XXXX
 TITLE 3D MODEL OF BAK IN COMPLEX WITH THE BH3 DOMAIN OF BIM
 COMPND MOLECULE: APOPTOSIS REGULATOR BAK;
 COMPND 2 SYNONYM: BCL-2 HOMOLOGOUS ANTAGONIST/KILLER, BCL-2- LIKE 7
 COMPND 3 PROTEIN;
 SOURCE MOLECULE 1 (RESIDUES 1-24): BIM;
 SOURCE 2 NCBI ACCESSION: Q43521;
 SOURCE 3 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 4 ORGANISM_COMMON: HUMAN;
 SOURCE 5 MOLECULE 2 (RESIDUES 25-187): BAK;
 SOURCE 6 NCBI ACCESSION: Q16611;
 SOURCE 7 ORGANISM_SCIENTIFIC: HOMO SAPIENS;
 SOURCE 8 ORGANISM_COMMON: HUMAN;
 KEYWDS HETERODIMER, APOPTOSIS
 EXPDTA THEORETICAL MODEL
 JRNL AUTH Y-P PANG, H DAI, A SMITH, XW MENG, PA SCHNEIDER, SH KAUFMANN
 JRNL TITL BAK CONFORMATIONAL CHANGES INDUCED BY LIGAND BINDING:
 JRNL TITL 2 INSIGHT INTO BH3 DOMAIN BINDING AND BAK HOMO-OLIGOMERIZATION
 JRNL REF SCIENTIFIC REPORTS, SUBMITTED
 REMARK 220 THIS IS AN AVERAGE OF CLUSTER 3 CONTAINING 250 SIMILAR
 REMARK 220 CONFORMERS IDENTIFIED BY CLUSTER ANALYSIS OF 80 10-NS MOLECULAR
 REMARK 220 DYNAMICS SIMULATIONS OF BAK*BIM USING PMEMD WITH THE
 REMARK 220 FF99SB FORCE FIELD. NO ENERGY MINIMIZATION IS APPLIED
 REMARK 220 TO THIS AVERAGE STRUCTURE.
 MOL 1
 ATOM 1 N ARG 1 3.606 28.046 20.651 0.00 0.00

ATOM	2	H	ARG	1	4.039	28.188	20.297	0.00	0.00
ATOM	3	CA	ARG	1	3.373	28.591	21.654	0.00	0.00
ATOM	4	HA	ARG	1	3.803	28.184	22.287	0.00	0.00
ATOM	5	CB	ARG	1	2.081	28.344	21.899	0.00	0.00
ATOM	6	HB2	ARG	1	1.806	27.434	21.944	0.00	0.00
ATOM	7	HB3	ARG	1	1.924	28.666	22.668	0.00	0.00
ATOM	8	CG	ARG	1	1.343	28.842	21.093	0.00	0.00
ATOM	9	HG2	ARG	1	1.584	29.721	21.070	0.00	0.00
ATOM	10	HG3	ARG	1	1.463	28.532	20.337	0.00	0.00
ATOM	11	CD	ARG	1	0.093	28.571	21.354	0.00	0.00
ATOM	12	HD2	ARG	1	-0.149	27.785	21.386	0.00	0.00
ATOM	13	HD3	ARG	1	0.003	28.831	22.036	0.00	0.00
ATOM	14	NE	ARG	1	-0.652	28.991	20.686	0.00	0.00
ATOM	15	HE	ARG	1	-0.780	29.033	20.306	0.00	0.00
ATOM	16	CZ	ARG	1	-1.189	29.324	20.526	0.00	0.00
ATOM	17	NH1	ARG	1	-1.118	29.322	20.952	0.00	0.00
ATOM	18	1HH1	ARG	1	-0.649	29.064	21.429	0.00	0.00
ATOM	19	2HH1	ARG	1	-1.548	29.585	20.815	0.00	0.00
ATOM	20	NH2	ARG	1	-1.824	29.680	19.922	0.00	0.00
ATOM	21	1HH2	ARG	1	-1.897	29.701	19.574	0.00	0.00
ATOM	22	2HH2	ARG	1	-2.222	29.936	19.802	0.00	0.00
ATOM	23	C	ARG	1	3.858	29.895	21.648	0.00	0.00
ATOM	24	O	ARG	1	3.880	30.451	20.783	0.00	0.00
ATOM	25	N	PRO	2	4.220	30.425	22.586	0.00	0.00
ATOM	26	CD	PRO	2	4.231	29.874	23.665	0.00	0.00
ATOM	27	HD2	PRO	2	4.881	29.351	23.703	0.00	0.00
ATOM	28	HD3	PRO	2	3.436	29.379	23.885	0.00	0.00
ATOM	29	CG	PRO	2	4.459	30.807	24.443	0.00	0.00
ATOM	30	HG2	PRO	2	5.027	30.680	24.888	0.00	0.00
ATOM	31	HG3	PRO	2	3.803	30.842	24.837	0.00	0.00
ATOM	32	CB	PRO	2	4.790	31.895	23.902	0.00	0.00
ATOM	33	HB2	PRO	2	4.341	32.483	24.199	0.00	0.00
ATOM	34	HB3	PRO	2	5.616	32.152	24.065	0.00	0.00
ATOM	35	CA	PRO	2	4.553	31.692	22.673	0.00	0.00
ATOM	36	HA	PRO	2	3.812	32.130	22.442	0.00	0.00
ATOM	37	C	PRO	2	5.600	32.209	21.945	0.00	0.00
ATOM	38	O	PRO	2	5.726	33.247	21.718	0.00	0.00
ATOM	39	N	GLU	3	6.341	31.508	21.551	0.00	0.00
ATOM	40	H	GLU	3	6.221	30.667	21.782	0.00	0.00
ATOM	41	CA	GLU	3	7.392	31.878	20.836	0.00	0.00
ATOM	42	HA	GLU	3	7.630	32.846	21.076	0.00	0.00
ATOM	43	CB	GLU	3	8.496	31.122	21.226	0.00	0.00
ATOM	44	HB2	GLU	3	9.279	31.560	20.826	0.00	0.00
ATOM	45	HB3	GLU	3	8.635	31.198	22.219	0.00	0.00
ATOM	46	CG	GLU	3	8.459	29.735	20.843	0.00	0.00
ATOM	47	HG2	GLU	3	8.229	29.644	19.888	0.00	0.00
ATOM	48	HG3	GLU	3	9.337	29.386	20.966	0.00	0.00
ATOM	49	CD	GLU	3	7.610	28.917	21.548	0.00	0.00
ATOM	50	OE1	GLU	3	7.009	28.308	21.186	0.00	0.00
ATOM	51	OE2	GLU	3	7.546	28.862	22.449	0.00	0.00
ATOM	52	C	GLU	3	7.157	31.861	19.420	0.00	0.00
ATOM	53	O	GLU	3	7.962	32.265	18.741	0.00	0.00
ATOM	54	N	ILE	4	6.061	31.437	18.950	0.00	0.00
ATOM	55	H	ILE	4	5.436	31.120	19.548	0.00	0.00
ATOM	56	CA	ILE	4	5.736	31.384	17.589	0.00	0.00
ATOM	57	HA	ILE	4	6.548	31.003	17.141	0.00	0.00
ATOM	58	CB	ILE	4	4.684	30.441	17.388	0.00	0.00
ATOM	59	HB	ILE	4	4.881	29.594	17.940	0.00	0.00
ATOM	60	CG2	ILE	4	3.469	30.916	17.814	0.00	0.00
ATOM	61	1HG2	ILE	4	3.157	31.344	17.863	0.00	0.00
ATOM	62	2HG2	ILE	4	3.024	30.861	17.745	0.00	0.00
ATOM	63	3HG2	ILE	4	3.330	30.883	18.149	0.00	0.00
ATOM	64	CG1	ILE	4	4.571	30.058	16.064	0.00	0.00
ATOM	65	2HG1	ILE	4	3.981	30.087	15.830	0.00	0.00
ATOM	66	3HG1	ILE	4	4.905	30.448	15.698	0.00	0.00
ATOM	67	CD1	ILE	4	4.773	29.072	15.519	0.00	0.00
ATOM	68	1HD1	ILE	4	4.828	28.908	15.238	0.00	0.00
ATOM	69	2HD1	ILE	4	4.952	28.780	15.460	0.00	0.00
ATOM	70	3HD1	ILE	4	4.687	28.802	15.440	0.00	0.00
ATOM	71	C	ILE	4	5.476	32.689	16.918	0.00	0.00
ATOM	72	O	ILE	4	5.692	32.828	15.788	0.00	0.00
ATOM	73	N	TRP	5	5.108	33.669	17.618	0.00	0.00
ATOM	74	H	TRP	5	4.960	33.484	18.535	0.00	0.00
ATOM	75	CA	TRP	5	4.883	35.006	17.165	0.00	0.00
ATOM	76	HA	TRP	5	4.944	35.019	16.124	0.00	0.00
ATOM	77	CB	TRP	5	3.518	35.417	17.516	0.00	0.00
ATOM	78	HB2	TRP	5	3.445	35.432	18.535	0.00	0.00
ATOM	79	HB3	TRP	5	3.360	36.394	17.195	0.00	0.00
ATOM	80	CG	TRP	5	2.445	34.617	16.978	0.00	0.00
ATOM	81	CD1	TRP	5	1.718	33.935	17.528	0.00	0.00
ATOM	82	HD1	TRP	5	1.829	33.875	18.420	0.00	0.00
ATOM	83	NE1	TRP	5	0.831	33.316	16.781	0.00	0.00
ATOM	84	HE1	TRP	5	0.209	32.743	17.010	0.00	0.00
ATOM	85	CE2	TRP	5	0.929	33.585	15.699	0.00	0.00
ATOM	86	CZ2	TRP	5	0.255	33.215	14.669	0.00	0.00
ATOM	87	HZ2	TRP	5	-0.514	32.593	14.635	0.00	0.00
ATOM	88	CH2	TRP	5	0.594	33.664	13.685	0.00	0.00
ATOM	89	HH2	TRP	5	0.081	33.394	12.893	0.00	0.00
ATOM	90	CZ3	TRP	5	1.592	34.493	13.744	0.00	0.00
ATOM	91	HZ3	TRP	5	1.840	34.842	12.994	0.00	0.00
ATOM	92	CE3	TRP	5	2.259	34.865	14.785	0.00	0.00
ATOM	93	HE3	TRP	5	3.018	35.500	14.813	0.00	0.00
ATOM	94	CD2	TRP	5	1.950	34.420	15.795	0.00	0.00
ATOM	95	C	TRP	5	5.920	35.995	17.643	0.00	0.00
ATOM	96	O	TRP	5	5.678	37.170	17.669	0.00	0.00
ATOM	97	N	ILE	6	7.084	35.539	18.033	0.00	0.00
ATOM	98	H	ILE	6	7.233	34.575	17.968	0.00	0.00
ATOM	99	CA	ILE	6	8.109	36.342	18.685	0.00	0.00
ATOM	100	HA	ILE	6	7.626	36.834	19.503	0.00	0.00
ATOM	101	CB	ILE	6	9.179	35.423	19.275	0.00	0.00
ATOM	102	HB	ILE	6	8.676	34.596	19.731	0.00	0.00
ATOM	103	CG2	ILE	6	10.090	34.854	18.220	0.00	0.00
ATOM	104	1HG2	ILE	6	10.494	35.129	17.894	0.00	0.00
ATOM	105	2HG2	ILE	6	10.483	34.428	18.297	0.00	0.00
ATOM	106	3HG2	ILE	6	9.958	34.558	17.711	0.00	0.00

ATOM	107	CG1	ILE	6	9.997	36.062	20.368	0.00	0.00
ATOM	108	ZHG1	ILE	6	10.728	35.829	20.412	0.00	0.00
ATOM	109	3HG1	ILE	6	10.057	36.810	20.293	0.00	0.00
ATOM	110	CD1	ILE	6	9.785	35.996	21.540	0.00	0.00
ATOM	111	1HD1	ILE	6	9.650	36.112	21.821	0.00	0.00
ATOM	112	2HD1	ILE	6	9.661	35.784	21.890	0.00	0.00
ATOM	113	3HD1	ILE	6	9.909	36.057	21.770	0.00	0.00
ATOM	114	C	ILE	6	8.678	37.464	17.812	0.00	0.00
ATOM	115	O	ILE	6	9.167	38.451	18.326	0.00	0.00
ATOM	116	N	ALA	7	8.553	37.384	16.495	0.00	0.00
ATOM	117	H	ALA	7	8.155	36.563	16.110	0.00	0.00
ATOM	118	CA	ALA	7	8.915	38.468	15.599	0.00	0.00
ATOM	119	HA	ALA	7	9.934	38.736	15.776	0.00	0.00
ATOM	120	CB	ALA	7	8.801	37.975	14.185	0.00	0.00
ATOM	121	HB1	ALA	7	8.800	37.880	13.862	0.00	0.00
ATOM	122	HB2	ALA	7	8.773	37.825	13.836	0.00	0.00
ATOM	123	HB3	ALA	7	8.754	37.868	13.832	0.00	0.00
ATOM	124	C	ALA	7	8.083	39.728	15.810	0.00	0.00
ATOM	125	O	ALA	7	8.558	40.812	15.562	0.00	0.00
ATOM	126	N	GLN	8	6.871	39.609	16.332	0.00	0.00
ATOM	127	H	GLN	8	6.540	38.700	16.537	0.00	0.00
ATOM	128	CA	GLN	8	6.037	40.739	16.712	0.00	0.00
ATOM	129	HA	GLN	8	6.050	41.444	15.911	0.00	0.00
ATOM	130	CB	GLN	8	4.609	40.288	16.921	0.00	0.00
ATOM	131	HB2	GLN	8	4.574	39.569	17.612	0.00	0.00
ATOM	132	HB3	GLN	8	4.056	41.059	17.266	0.00	0.00
ATOM	133	CG	GLN	8	3.965	39.793	15.745	0.00	0.00
ATOM	134	HG2	GLN	8	4.028	40.489	15.056	0.00	0.00
ATOM	135	HG3	GLN	8	4.470	39.004	15.404	0.00	0.00
ATOM	136	CD	GLN	8	2.556	39.401	15.915	0.00	0.00
ATOM	137	OE1	GLN	8	1.955	39.534	16.822	0.00	0.00
ATOM	138	NE2	GLN	8	1.972	38.894	15.038	0.00	0.00
ATOM	139	1HE2	GLN	8	1.054	38.644	15.143	0.00	0.00
ATOM	140	2HE2	GLN	8	2.439	38.783	14.280	0.00	0.00
ATOM	141	C	GLN	8	6.558	41.475	17.941	0.00	0.00
ATOM	142	O	GLN	8	6.300	42.645	18.092	0.00	0.00
ATOM	143	N	GLU	9	7.334	40.831	18.792	0.00	0.00
ATOM	144	H	GLU	9	7.509	39.876	18.632	0.00	0.00
ATOM	145	CA	GLU	9	8.056	41.493	19.875	0.00	0.00
ATOM	146	HA	GLU	9	7.428	42.269	20.287	0.00	0.00
ATOM	147	CB	GLU	9	8.395	40.517	20.997	0.00	0.00
ATOM	148	HB2	GLU	9	9.063	39.766	20.625	0.00	0.00
ATOM	149	HB3	GLU	9	8.920	41.044	21.766	0.00	0.00
ATOM	150	CG	GLU	9	7.200	39.829	21.630	0.00	0.00
ATOM	151	HG2	GLU	9	6.668	39.295	20.888	0.00	0.00
ATOM	152	HG3	GLU	9	7.557	39.114	22.330	0.00	0.00
ATOM	153	CD	GLU	9	6.280	40.766	22.333	0.00	0.00
ATOM	154	OE1	GLU	9	5.910	41.407	22.429	0.00	0.00
ATOM	155	OE2	GLU	9	5.911	40.888	22.814	0.00	0.00
ATOM	156	C	GLU	9	9.308	42.184	19.359	0.00	0.00
ATOM	157	O	GLU	9	9.528	43.344	19.660	0.00	0.00
ATOM	158	N	LEU	10	10.081	41.533	18.485	0.00	0.00
ATOM	159	H	LEU	10	9.841	40.591	18.267	0.00	0.00
ATOM	160	CA	LEU	10	11.268	42.120	17.851	0.00	0.00
ATOM	161	HA	LEU	10	11.944	42.403	18.643	0.00	0.00
ATOM	162	CB	LEU	10	11.946	41.048	16.994	0.00	0.00
ATOM	163	HB2	LEU	10	12.054	40.157	17.585	0.00	0.00
ATOM	164	HB3	LEU	10	11.299	40.813	16.172	0.00	0.00
ATOM	165	CG	LEU	10	13.316	41.429	16.430	0.00	0.00
ATOM	166	HG	LEU	10	13.199	42.272	15.786	0.00	0.00
ATOM	167	CD1	LEU	10	14.338	41.774	17.478	0.00	0.00
ATOM	168	1HD1	LEU	10	14.627	41.843	17.732	0.00	0.00
ATOM	169	2HD1	LEU	10	14.575	41.883	17.704	0.00	0.00
ATOM	170	3HD1	LEU	10	14.573	41.845	17.752	0.00	0.00
ATOM	171	CD2	LEU	10	13.875	40.288	15.621	0.00	0.00
ATOM	172	1HD2	LEU	10	13.801	40.073	15.196	0.00	0.00
ATOM	173	2HD2	LEU	10	14.284	40.159	15.420	0.00	0.00
ATOM	174	3HD2	LEU	10	13.939	39.814	15.656	0.00	0.00
ATOM	175	C	LEU	10	10.940	43.398	17.061	0.00	0.00
ATOM	176	O	LEU	10	11.715	44.336	17.052	0.00	0.00
ATOM	177	N	ARG	11	9.738	43.482	16.497	0.00	0.00
ATOM	178	H	ARG	11	9.202	42.649	16.488	0.00	0.00
ATOM	179	CA	ARG	11	9.175	44.666	15.842	0.00	0.00
ATOM	180	HA	ARG	11	9.854	44.963	15.059	0.00	0.00
ATOM	181	CB	ARG	11	7.850	44.272	15.193	0.00	0.00
ATOM	182	HB2	ARG	11	7.992	43.365	14.655	0.00	0.00
ATOM	183	HB3	ARG	11	7.130	44.073	15.946	0.00	0.00
ATOM	184	CG	ARG	11	7.281	45.291	14.240	0.00	0.00
ATOM	185	HG2	ARG	11	7.023	46.166	14.760	0.00	0.00
ATOM	186	HG3	ARG	11	8.019	45.522	13.533	0.00	0.00
ATOM	187	CD	ARG	11	6.068	44.792	13.504	0.00	0.00
ATOM	188	HD2	ARG	11	5.784	45.497	12.773	0.00	0.00
ATOM	189	HD3	ARG	11	6.320	43.905	13.020	0.00	0.00
ATOM	190	NE	ARG	11	4.957	44.573	14.351	0.00	0.00
ATOM	191	HE	ARG	11	4.955	44.964	15.202	0.00	0.00
ATOM	192	CZ	ARG	11	3.910	43.959	14.091	0.00	0.00
ATOM	193	NH1	ARG	11	3.729	43.440	13.019	0.00	0.00
ATOM	194	1HH1	ARG	11	4.371	43.541	12.325	0.00	0.00
ATOM	195	2HH1	ARG	11	2.914	42.988	12.867	0.00	0.00
ATOM	196	NH2	ARG	11	3.010	43.837	14.937	0.00	0.00
ATOM	197	1HH2	ARG	11	3.098	44.228	15.772	0.00	0.00
ATOM	198	2HH2	ARG	11	2.218	43.384	14.728	0.00	0.00
ATOM	199	C	ARG	11	9.022	45.879	16.752	0.00	0.00
ATOM	200	O	ARG	11	9.120	46.980	16.256	0.00	0.00
ATOM	201	N	ARG	12	8.837	45.717	18.060	0.00	0.00
ATOM	202	H	ARG	12	8.805	44.786	18.391	0.00	0.00
ATOM	203	CA	ARG	12	8.630	46.814	19.022	0.00	0.00
ATOM	204	HA	ARG	12	8.575	47.738	18.466	0.00	0.00
ATOM	205	CB	ARG	12	7.272	46.680	19.709	0.00	0.00
ATOM	206	HB2	ARG	12	7.088	47.572	20.268	0.00	0.00
ATOM	207	HB3	ARG	12	6.525	46.634	18.955	0.00	0.00
ATOM	208	CG	ARG	12	7.095	45.500	20.634	0.00	0.00
ATOM	209	HG2	ARG	12	7.103	44.682	20.116	0.00	0.00
ATOM	210	HG3	ARG	12	7.810	45.451	21.279	0.00	0.00
ATOM	211	CD	ARG	12	5.908	45.492	21.384	0.00	0.00

ATOM	212	HD2	ARG	12	5.884	46.307	21.872	0.00	0.00
ATOM	213	HD3	ARG	12	5.207	45.530	20.750	0.00	0.00
ATOM	214	NE	ARG	12	5.720	44.376	22.255	0.00	0.00
ATOM	215	HE	ARG	12	5.823	43.505	22.041	0.00	0.00
ATOM	216	CZ	ARG	12	5.340	44.381	23.326	0.00	0.00
ATOM	217	NH1	ARG	12	5.156	45.419	23.782	0.00	0.00
ATOM	218	1HH1	ARG	12	5.366	46.262	23.333	0.00	0.00
ATOM	219	2HH1	ARG	12	4.842	45.362	24.593	0.00	0.00
ATOM	220	NH2	ARG	12	5.154	43.311	23.982	0.00	0.00
ATOM	221	1HH2	ARG	12	5.361	42.481	23.658	0.00	0.00
ATOM	222	2HH2	ARG	12	4.881	43.313	24.788	0.00	0.00
ATOM	223	C	ARG	12	9.752	47.063	20.018	0.00	0.00
ATOM	224	O	ARG	12	9.960	48.204	20.383	0.00	0.00
ATOM	225	N	ILE	13	10.478	46.048	20.470	0.00	0.00
ATOM	226	H	ILE	13	10.254	45.137	20.139	0.00	0.00
ATOM	227	CA	ILE	13	11.379	46.186	21.623	0.00	0.00
ATOM	228	HA	ILE	13	10.822	46.680	22.401	0.00	0.00
ATOM	229	CB	ILE	13	11.796	44.830	22.200	0.00	0.00
ATOM	230	HB	ILE	13	12.454	45.054	23.016	0.00	0.00
ATOM	231	CG2	ILE	13	10.595	44.125	22.810	0.00	0.00
ATOM	232	1HG2	ILE	13	10.399	43.862	23.043	0.00	0.00
ATOM	233	2HG2	ILE	13	10.275	44.100	23.036	0.00	0.00
ATOM	234	3HG2	ILE	13	10.227	43.921	22.841	0.00	0.00
ATOM	235	CG1	ILE	13	12.574	43.957	21.220	0.00	0.00
ATOM	236	2HG1	ILE	13	12.016	43.670	20.475	0.00	0.00
ATOM	237	3HG1	ILE	13	13.307	44.462	20.831	0.00	0.00
ATOM	238	CD1	ILE	13	13.148	42.785	21.714	0.00	0.00
ATOM	239	1HD1	ILE	13	13.280	42.569	21.978	0.00	0.00
ATOM	240	2HD1	ILE	13	13.190	42.374	21.782	0.00	0.00
ATOM	241	3HD1	ILE	13	13.402	42.550	21.712	0.00	0.00
ATOM	242	C	ILE	13	12.589	47.086	21.404	0.00	0.00
ATOM	243	O	ILE	13	13.047	47.698	22.346	0.00	0.00
ATOM	244	N	GLY	14	13.084	47.230	20.186	0.00	0.00
ATOM	245	H	GLY	14	12.622	46.773	19.432	0.00	0.00
ATOM	246	CA	GLY	14	14.160	48.169	19.871	0.00	0.00
ATOM	247	HA2	GLY	14	14.970	48.042	20.559	0.00	0.00
ATOM	248	HA3	GLY	14	14.511	47.952	18.884	0.00	0.00
ATOM	249	C	GLY	14	13.725	49.624	19.914	0.00	0.00
ATOM	250	O	GLY	14	14.483	50.485	20.304	0.00	0.00
ATOM	251	N	ASP	15	12.486	49.893	19.575	0.00	0.00
ATOM	252	H	ASP	15	11.924	49.138	19.274	0.00	0.00
ATOM	253	CA	ASP	15	11.878	51.212	19.680	0.00	0.00
ATOM	254	HA	ASP	15	12.604	51.947	19.367	0.00	0.00
ATOM	255	CB	ASP	15	10.691	51.279	18.736	0.00	0.00
ATOM	256	HB2	ASP	15	10.937	50.839	17.818	0.00	0.00
ATOM	257	HB3	ASP	15	9.888	50.732	19.127	0.00	0.00
ATOM	258	CG	ASP	15	10.277	52.668	18.491	0.00	0.00
ATOM	259	OD1	ASP	15	10.949	53.346	17.822	0.00	0.00
ATOM	260	OD2	ASP	15	9.273	53.076	18.940	0.00	0.00
ATOM	261	C	ASP	15	11.486	51.563	21.118	0.00	0.00
ATOM	262	O	ASP	15	11.625	52.704	21.529	0.00	0.00
ATOM	263	N	GLU	16	11.069	50.588	21.914	0.00	0.00
ATOM	264	H	GLU	16	10.912	49.694	21.512	0.00	0.00
ATOM	265	CA	GLU	16	10.852	50.758	23.349	0.00	0.00
ATOM	266	HA	GLU	16	10.250	51.639	23.506	0.00	0.00
ATOM	267	CB	GLU	16	10.100	49.564	23.936	0.00	0.00
ATOM	268	HB2	GLU	16	10.476	48.727	23.618	0.00	0.00
ATOM	269	HB3	GLU	16	10.179	49.547	24.912	0.00	0.00
ATOM	270	CG	GLU	16	8.731	49.535	23.671	0.00	0.00
ATOM	271	HG2	GLU	16	8.390	50.367	23.917	0.00	0.00
ATOM	272	HG3	GLU	16	8.645	49.489	22.738	0.00	0.00
ATOM	273	CD	GLU	16	7.933	48.465	24.311	0.00	0.00
ATOM	274	OE1	GLU	16	7.567	47.986	24.420	0.00	0.00
ATOM	275	OE2	GLU	16	7.643	48.100	24.736	0.00	0.00
ATOM	276	C	GLU	16	12.163	51.000	24.105	0.00	0.00
ATOM	277	O	GLU	16	12.200	51.837	24.990	0.00	0.00
ATOM	278	N	PHE	17	13.260	50.362	23.705	0.00	0.00
ATOM	279	H	PHE	17	13.175	49.647	23.021	0.00	0.00
ATOM	280	CA	PHE	17	14.583	50.689	24.222	0.00	0.00
ATOM	281	HA	PHE	17	14.515	50.712	25.301	0.00	0.00
ATOM	282	CB	PHE	17	15.592	49.600	23.855	0.00	0.00
ATOM	283	HB2	PHE	17	15.230	48.653	24.205	0.00	0.00
ATOM	284	HB3	PHE	17	15.678	49.544	22.786	0.00	0.00
ATOM	285	CG	PHE	17	16.952	49.841	24.458	0.00	0.00
ATOM	286	CD1	PHE	17	17.159	49.710	25.809	0.00	0.00
ATOM	287	HD1	PHE	17	16.367	49.384	26.417	0.00	0.00
ATOM	288	CE1	PHE	17	18.381	50.038	26.373	0.00	0.00
ATOM	289	HE1	PHE	17	18.527	49.929	27.404	0.00	0.00
ATOM	290	CZ	PHE	17	19.408	50.496	25.588	0.00	0.00
ATOM	291	HZ	PHE	17	20.339	50.747	26.023	0.00	0.00
ATOM	292	CE2	PHE	17	19.216	50.611	24.241	0.00	0.00
ATOM	293	HE2	PHE	17	20.001	50.972	23.644	0.00	0.00
ATOM	294	CD2	PHE	17	17.991	50.278	23.677	0.00	0.00
ATOM	295	HD2	PHE	17	17.843	50.375	22.645	0.00	0.00
ATOM	296	C	PHE	17	15.062	52.076	23.773	0.00	0.00
ATOM	297	O	PHE	17	15.653	52.787	24.560	0.00	0.00
ATOM	298	N	ASN	18	14.737	52.527	22.567	0.00	0.00
ATOM	299	H	ASN	18	14.265	51.915	21.944	0.00	0.00
ATOM	300	CA	ASN	18	15.039	53.886	22.118	0.00	0.00
ATOM	301	HA	ASN	18	16.099	54.037	22.243	0.00	0.00
ATOM	302	CB	ASN	18	14.724	54.036	20.633	0.00	0.00
ATOM	303	HB2	ASN	18	15.099	53.194	20.082	0.00	0.00
ATOM	304	HB3	ASN	18	13.662	54.064	20.494	0.00	0.00
ATOM	305	CG	ASN	18	15.335	55.286	20.065	0.00	0.00
ATOM	306	OD1	ASN	18	16.512	55.381	19.869	0.00	0.00
ATOM	307	ND2	ASN	18	14.574	56.277	19.802	0.00	0.00
ATOM	308	1HD2	ASN	18	14.967	57.093	19.418	0.00	0.00
ATOM	309	2HD2	ASN	18	13.606	56.198	19.958	0.00	0.00
ATOM	310	C	ASN	18	14.337	54.955	22.957	0.00	0.00
ATOM	311	O	ASN	18	14.937	55.962	23.272	0.00	0.00
ATOM	312	N	ALA	19	13.109	54.713	23.388	0.00	0.00
ATOM	313	H	ALA	19	12.665	53.886	23.069	0.00	0.00
ATOM	314	CA	ALA	19	12.387	55.573	24.308	0.00	0.00
ATOM	315	HA	ALA	19	12.466	56.583	23.956	0.00	0.00
ATOM	316	CB	ALA	19	10.927	55.190	24.290	0.00	0.00

ATOM	317	HB1	ALA	19	10.536	55.209	24.102	0.00	0.00
ATOM	318	HB2	ALA	19	10.624	54.906	24.287	0.00	0.00
ATOM	319	HB3	ALA	19	10.557	55.202	24.472	0.00	0.00
ATOM	320	C	ALA	19	12.959	55.552	25.718	0.00	0.00
ATOM	321	O	ALA	19	12.965	56.554	26.382	0.00	0.00
ATOM	322	N	TYR	20	13.499	54.441	26.165	0.00	0.00
ATOM	323	H	TYR	20	13.433	53.647	25.594	0.00	0.00
ATOM	324	CA	TYR	20	14.193	54.325	27.431	0.00	0.00
ATOM	325	HA	TYR	20	13.614	54.834	28.184	0.00	0.00
ATOM	326	CB	TYR	20	14.279	52.865	27.828	0.00	0.00
ATOM	327	HB2	TYR	20	13.296	52.469	27.845	0.00	0.00
ATOM	328	HB3	TYR	20	14.823	52.327	27.086	0.00	0.00
ATOM	329	CG	TYR	20	14.896	52.603	29.151	0.00	0.00
ATOM	330	CD1	TYR	20	14.262	52.992	30.303	0.00	0.00
ATOM	331	HD1	TYR	20	13.339	53.469	30.256	0.00	0.00
ATOM	332	CE1	TYR	20	14.833	52.746	31.527	0.00	0.00
ATOM	333	HE1	TYR	20	14.346	53.040	32.402	0.00	0.00
ATOM	334	CZ	TYR	20	16.039	52.114	31.600	0.00	0.00
ATOM	335	OH	TYR	20	16.593	51.888	32.774	0.00	0.00
ATOM	336	HH	TYR	20	16.087	52.213	33.460	0.00	0.00
ATOM	337	CE2	TYR	20	16.666	51.720	30.452	0.00	0.00
ATOM	338	HE2	TYR	20	17.585	51.238	30.516	0.00	0.00
ATOM	339	CD2	TYR	20	16.096	51.966	29.232	0.00	0.00
ATOM	340	HD2	TYR	20	16.588	51.679	28.355	0.00	0.00
ATOM	341	C	TYR	20	15.568	54.977	27.414	0.00	0.00
ATOM	342	O	TYR	20	15.950	55.606	28.370	0.00	0.00
ATOM	343	N	TYR	21	16.294	54.913	26.315	0.00	0.00
ATOM	344	H	TYR	21	15.963	54.333	25.590	0.00	0.00
ATOM	345	CA	TYR	21	17.549	55.623	26.091	0.00	0.00
ATOM	346	HA	TYR	21	18.230	55.388	26.878	0.00	0.00
ATOM	347	CB	TYR	21	18.157	55.138	24.790	0.00	0.00
ATOM	348	HB2	TYR	21	18.421	54.127	24.895	0.00	0.00
ATOM	349	HB3	TYR	21	17.420	55.170	24.042	0.00	0.00
ATOM	350	CG	TYR	21	19.345	55.898	24.321	0.00	0.00
ATOM	351	CD1	TYR	21	20.552	55.709	24.898	0.00	0.00
ATOM	352	HD1	TYR	21	20.633	55.030	25.667	0.00	0.00
ATOM	353	CE1	TYR	21	21.650	56.413	24.470	0.00	0.00
ATOM	354	HE1	TYR	21	22.567	56.271	24.920	0.00	0.00
ATOM	355	CZ	TYR	21	21.539	57.308	23.466	0.00	0.00
ATOM	356	OH	TYR	21	22.585	57.975	23.040	0.00	0.00
ATOM	357	HH	TYR	21	23.346	57.746	23.468	0.00	0.00
ATOM	358	CE2	TYR	21	20.329	57.497	22.894	0.00	0.00
ATOM	359	HE2	TYR	21	20.248	58.180	22.130	0.00	0.00
ATOM	360	CD2	TYR	21	19.236	56.795	23.317	0.00	0.00
ATOM	361	HD2	TYR	21	18.319	56.948	22.877	0.00	0.00
ATOM	362	C	TYR	21	17.372	57.129	26.106	0.00	0.00
ATOM	363	O	TYR	21	18.215	57.832	26.599	0.00	0.00
ATOM	364	N	ALA	22	16.252	57.623	25.642	0.00	0.00
ATOM	365	H	ALA	22	15.612	56.998	25.238	0.00	0.00
ATOM	366	CA	ALA	22	15.926	59.024	25.598	0.00	0.00
ATOM	367	HA	ALA	22	16.797	59.561	25.339	0.00	0.00
ATOM	368	CB	ALA	22	14.950	59.239	24.512	0.00	0.00
ATOM	369	HB1	ALA	22	14.802	59.388	24.195	0.00	0.00
ATOM	370	HB2	ALA	22	14.721	59.158	24.197	0.00	0.00
ATOM	371	HB3	ALA	22	14.613	59.329	24.349	0.00	0.00
ATOM	372	C	ALA	22	15.453	59.606	26.899	0.00	0.00
ATOM	373	O	ALA	22	15.007	60.684	26.911	0.00	0.00
ATOM	374	N	ARG	23	15.542	58.920	27.997	0.00	0.00
ATOM	375	H	ARG	23	15.916	58.055	27.916	0.00	0.00
ATOM	376	CA	ARG	23	15.137	59.376	29.294	0.00	0.00
ATOM	377	HA	ARG	23	14.185	59.794	29.195	0.00	0.00
ATOM	378	CB	ARG	23	15.007	58.232	30.256	0.00	0.00
ATOM	379	HB2	ARG	23	14.479	58.556	31.111	0.00	0.00
ATOM	380	HB3	ARG	23	14.427	57.485	29.804	0.00	0.00
ATOM	381	CG	ARG	23	16.298	57.640	30.714	0.00	0.00
ATOM	382	HG2	ARG	23	16.919	57.428	29.889	0.00	0.00
ATOM	383	HG3	ARG	23	16.790	58.319	31.330	0.00	0.00
ATOM	384	CD	ARG	23	16.060	56.386	31.476	0.00	0.00
ATOM	385	HD2	ARG	23	15.460	56.617	32.304	0.00	0.00
ATOM	386	HD3	ARG	23	15.541	55.697	30.895	0.00	0.00
ATOM	387	NE	ARG	23	17.269	55.793	31.934	0.00	0.00
ATOM	388	HE	ARG	23	17.493	55.945	32.843	0.00	0.00
ATOM	389	CZ	ARG	23	18.071	55.027	31.308	0.00	0.00
ATOM	390	NH1	ARG	23	17.943	54.740	30.121	0.00	0.00
ATOM	391	1HH1	ARG	23	17.193	55.089	29.631	0.00	0.00
ATOM	392	2HH1	ARG	23	18.557	54.109	29.715	0.00	0.00
ATOM	393	NH2	ARG	23	19.041	54.514	31.881	0.00	0.00
ATOM	394	1HH2	ARG	23	19.168	54.693	32.792	0.00	0.00
ATOM	395	2HH2	ARG	23	19.614	53.902	31.413	0.00	0.00
ATOM	396	C	ARG	23	16.008	60.450	29.802	0.00	0.00
ATOM	397	O	ARG	23	17.146	60.502	29.515	0.00	0.00
ATOM	398	N	ARG	24	15.480	61.287	30.580	0.00	0.00
ATOM	399	H	ARG	24	14.547	61.168	30.756	0.00	0.00
ATOM	400	CA	ARG	24	16.140	62.358	31.181	0.00	0.00
ATOM	401	HA	ARG	24	17.053	62.390	30.939	0.00	0.00
ATOM	402	CB	ARG	24	15.659	63.548	30.817	0.00	0.00
ATOM	403	HB2	ARG	24	15.637	63.942	31.265	0.00	0.00
ATOM	404	HB3	ARG	24	15.072	63.505	30.609	0.00	0.00
ATOM	405	CG	ARG	24	15.993	64.282	30.128	0.00	0.00
ATOM	406	HG2	ARG	24	15.929	63.952	29.879	0.00	0.00
ATOM	407	HG3	ARG	24	16.387	64.351	30.194	0.00	0.00
ATOM	408	CD	ARG	24	15.886	65.377	29.671	0.00	0.00
ATOM	409	HD2	ARG	24	15.857	65.599	29.569	0.00	0.00
ATOM	410	HD3	ARG	24	15.853	65.402	29.667	0.00	0.00
ATOM	411	NE	ARG	24	15.869	66.094	29.360	0.00	0.00
ATOM	412	HE	ARG	24	15.940	65.983	29.511	0.00	0.00
ATOM	413	CZ	ARG	24	15.777	66.878	28.894	0.00	0.00
ATOM	414	NH1	ARG	24	15.685	67.135	28.632	0.00	0.00
ATOM	415	1HH1	ARG	24	15.681	66.743	28.788	0.00	0.00
ATOM	416	2HH1	ARG	24	15.626	67.734	28.278	0.00	0.00
ATOM	417	NH2	ARG	24	15.775	67.439	28.667	0.00	0.00
ATOM	418	1HH2	ARG	24	15.845	67.289	28.844	0.00	0.00
ATOM	419	2HH2	ARG	24	15.700	68.025	28.317	0.00	0.00
ATOM	420	C	ARG	24	16.122	62.251	32.489	0.00	0.00
ATOM	421	O	ARG	24	15.579	61.933	32.965	0.00	0.00

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MOL 2
ATOM 422 N SER 25 26.492 58.450 2.589 0.00 0.00
ATOM 423 H SER 25 26.197 58.509 2.470 0.00 0.00
ATOM 424 CA SER 25 27.188 58.240 2.327 0.00 0.00
ATOM 425 HA SER 25 27.255 58.753 2.191 0.00 0.00
ATOM 426 CB SER 25 27.410 58.446 3.060 0.00 0.00
ATOM 427 HB2 SER 25 27.198 58.917 3.176 0.00 0.00
ATOM 428 HB3 SER 25 27.330 57.915 3.404 0.00 0.00
ATOM 429 OG SER 25 27.991 58.715 3.143 0.00 0.00
ATOM 430 HG SER 25 28.306 59.201 3.413 0.00 0.00
ATOM 431 C SER 25 27.609 57.150 1.536 0.00 0.00
ATOM 432 O SER 25 27.214 56.134 1.762 0.00 0.00
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ATOM 434 H ALA 26 28.743 58.193 0.511 0.00 0.00
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ATOM 436 HA ALA 26 28.248 55.770 -0.443 0.00 0.00
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ATOM 438 HB1 ALA 26 29.539 56.996 -1.801 0.00 0.00
ATOM 439 HB2 ALA 26 29.321 57.431 -1.632 0.00 0.00
ATOM 440 HB3 ALA 26 29.810 57.306 -1.532 0.00 0.00
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ATOM 444 H SER 27 30.177 56.648 1.862 0.00 0.00
ATOM 445 CA SER 27 31.458 55.134 2.242 0.00 0.00
ATOM 446 HA SER 27 32.126 54.747 1.580 0.00 0.00
ATOM 447 CB SER 27 32.206 56.066 3.052 0.00 0.00
ATOM 448 HB2 SER 27 31.852 56.278 3.725 0.00 0.00
ATOM 449 HB3 SER 27 32.910 55.784 3.329 0.00 0.00
ATOM 450 OG SER 27 32.478 57.010 2.583 0.00 0.00
ATOM 451 HG SER 27 32.812 57.307 2.767 0.00 0.00
ATOM 452 C SER 27 30.942 53.974 3.066 0.00 0.00
ATOM 453 O SER 27 31.630 53.489 3.931 0.00 0.00
ATOM 454 N GLU 28 29.733 53.513 2.831 0.00 0.00
ATOM 455 H GLU 28 29.217 53.940 2.109 0.00 0.00
ATOM 456 CA GLU 28 29.075 52.489 3.630 0.00 0.00
ATOM 457 HA GLU 28 29.014 52.845 4.637 0.00 0.00
ATOM 458 CB GLU 28 27.653 52.280 3.135 0.00 0.00
ATOM 459 HB2 GLU 28 27.259 51.689 3.618 0.00 0.00
ATOM 460 HB3 GLU 28 27.174 52.998 3.229 0.00 0.00
ATOM 461 CG GLU 28 27.364 51.915 1.923 0.00 0.00
ATOM 462 HG2 GLU 28 27.792 52.460 1.443 0.00 0.00
ATOM 463 HG3 GLU 28 27.766 51.178 1.849 0.00 0.00
ATOM 464 CD GLU 28 25.951 51.798 1.451 0.00 0.00
ATOM 465 OE1 GLU 28 25.627 52.244 0.477 0.00 0.00
ATOM 466 OE2 GLU 28 25.142 51.254 2.022 0.00 0.00
ATOM 467 C GLU 28 29.834 51.168 3.708 0.00 0.00
ATOM 468 O GLU 28 29.829 50.532 4.738 0.00 0.00
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ATOM 472 HA GLU 29 30.780 48.763 3.091 0.00 0.00
ATOM 473 CB GLU 29 31.690 49.186 1.246 0.00 0.00
ATOM 474 HB2 GLU 29 31.308 49.542 0.771 0.00 0.00
ATOM 475 HB3 GLU 29 32.386 49.293 0.962 0.00 0.00
ATOM 476 CG GLU 29 31.598 48.182 0.839 0.00 0.00
ATOM 477 HG2 GLU 29 31.966 47.839 1.284 0.00 0.00
ATOM 478 HG3 GLU 29 30.938 48.086 1.117 0.00 0.00
ATOM 479 CD GLU 29 31.896 47.776 -0.539 0.00 0.00
ATOM 480 OE1 GLU 29 32.038 47.789 -1.110 0.00 0.00
ATOM 481 OE2 GLU 29 31.997 47.439 -1.057 0.00 0.00
ATOM 482 C GLU 29 32.624 49.679 3.523 0.00 0.00
ATOM 483 O GLU 29 33.056 48.720 4.126 0.00 0.00
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ATOM 485 H GLN 30 32.764 51.607 3.140 0.00 0.00
ATOM 486 CA GLN 30 34.303 51.166 4.513 0.00 0.00
ATOM 487 HA GLN 30 35.015 50.364 4.472 0.00 0.00
ATOM 488 CB GLN 30 35.006 52.428 4.053 0.00 0.00
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ATOM 490 HB3 GLN 30 35.730 52.683 4.791 0.00 0.00
ATOM 491 CG GLN 30 35.725 52.295 2.745 0.00 0.00
ATOM 492 HG2 GLN 30 36.389 52.764 2.663 0.00 0.00
ATOM 493 HG3 GLN 30 36.034 51.571 2.623 0.00 0.00
ATOM 494 CD GLN 30 35.219 52.523 1.703 0.00 0.00
ATOM 495 OE1 GLN 30 34.706 52.976 1.618 0.00 0.00
ATOM 496 NE2 GLN 30 35.334 52.226 0.858 0.00 0.00
ATOM 497 1HE2 GLN 30 35.014 52.375 0.162 0.00 0.00
ATOM 498 2HE2 GLN 30 35.758 51.857 0.897 0.00 0.00
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ATOM 502 H VAL 31 32.180 52.216 5.437 0.00 0.00
ATOM 503 CA VAL 31 32.044 51.830 7.519 0.00 0.00
ATOM 504 HA VAL 31 32.771 52.160 8.243 0.00 0.00
ATOM 505 CB VAL 31 30.882 52.823 7.558 0.00 0.00
ATOM 506 HB VAL 31 30.194 52.592 6.777 0.00 0.00
ATOM 507 CG1 VAL 31 30.131 52.812 8.861 0.00 0.00
ATOM 508 1HG1 VAL 31 30.681 52.841 9.577 0.00 0.00
ATOM 509 2HG1 VAL 31 29.548 53.519 8.962 0.00 0.00
ATOM 510 3HG1 VAL 31 29.609 52.080 8.984 0.00 0.00
ATOM 511 CG2 VAL 31 31.380 54.226 7.353 0.00 0.00
ATOM 512 1HG2 VAL 31 31.586 54.576 7.301 0.00 0.00
ATOM 513 2HG2 VAL 31 31.458 54.567 7.236 0.00 0.00
ATOM 514 3HG2 VAL 31 31.465 54.582 7.377 0.00 0.00
ATOM 515 C VAL 31 31.632 50.432 7.952 0.00 0.00
ATOM 516 O VAL 31 31.737 50.113 9.119 0.00 0.00
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ATOM 518 H ALA 32 31.104 49.849 6.113 0.00 0.00
ATOM 519 CA ALA 32 31.050 48.135 7.349 0.00 0.00
ATOM 520 HA ALA 32 30.360 48.062 8.169 0.00 0.00
ATOM 521 CB ALA 32 30.395 47.465 6.160 0.00 0.00
ATOM 522 HB1 ALA 32 30.479 47.517 5.637 0.00 0.00
ATOM 523 HB2 ALA 32 30.344 46.937 6.008 0.00 0.00
ATOM 524 HB3 ALA 32 29.878 47.457 5.993 0.00 0.00

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ATOM	525	C	ALA	32	32.341	47.432	7.788	0.00	0.00
ATOM	526	O	ALA	32	32.313	46.637	8.707	0.00	0.00
ATOM	527	N	GLN	33	33.489	47.771	7.221	0.00	0.00
ATOM	528	H	GLN	33	33.459	48.414	6.472	0.00	0.00
ATOM	529	CA	GLN	33	34.782	47.250	7.650	0.00	0.00
ATOM	530	HA	GLN	33	34.666	46.185	7.764	0.00	0.00
ATOM	531	CB	GLN	33	35.811	47.515	6.559	0.00	0.00
ATOM	532	HB2	GLN	33	35.408	47.237	5.616	0.00	0.00
ATOM	533	HB3	GLN	33	36.023	48.553	6.513	0.00	0.00
ATOM	534	CG	GLN	33	37.116	46.781	6.736	0.00	0.00
ATOM	535	HG2	GLN	33	37.784	47.061	5.993	0.00	0.00
ATOM	536	HG3	GLN	33	37.554	47.043	7.627	0.00	0.00
ATOM	537	CD	GLN	33	37.000	45.342	6.693	0.00	0.00
ATOM	538	OE1	GLN	33	36.363	44.722	6.168	0.00	0.00
ATOM	539	NE2	GLN	33	37.603	44.747	7.248	0.00	0.00
ATOM	540	1HE2	GLN	33	38.130	45.231	7.699	0.00	0.00
ATOM	541	2HE2	GLN	33	37.509	43.818	7.247	0.00	0.00
ATOM	542	C	GLN	33	35.221	47.784	9.015	0.00	0.00
ATOM	543	O	GLN	33	35.794	47.054	9.796	0.00	0.00
ATOM	544	N	ASP	34	34.881	49.018	9.362	0.00	0.00
ATOM	545	H	ASP	34	34.478	49.603	8.673	0.00	0.00
ATOM	546	CA	ASP	34	35.033	49.532	10.721	0.00	0.00
ATOM	547	HA	ASP	34	36.015	49.295	11.086	0.00	0.00
ATOM	548	CB	ASP	34	34.863	51.037	10.745	0.00	0.00
ATOM	549	HB2	ASP	34	33.954	51.297	10.260	0.00	0.00
ATOM	550	HB3	ASP	34	34.790	51.355	11.763	0.00	0.00
ATOM	551	CG	ASP	34	35.981	51.811	10.116	0.00	0.00
ATOM	552	OD1	ASP	34	37.093	51.365	10.084	0.00	0.00
ATOM	553	OD2	ASP	34	35.758	52.903	9.686	0.00	0.00
ATOM	554	C	ASP	34	34.047	48.881	11.690	0.00	0.00
ATOM	555	O	ASP	34	34.402	48.596	12.815	0.00	0.00
ATOM	556	N	THR	35	32.834	48.566	11.244	0.00	0.00
ATOM	557	H	THR	35	32.612	48.829	10.313	0.00	0.00
ATOM	558	CA	THR	35	31.829	47.861	12.044	0.00	0.00
ATOM	559	HA	THR	35	31.713	48.402	12.970	0.00	0.00
ATOM	560	CB	THR	35	30.474	47.816	11.336	0.00	0.00
ATOM	561	HB	THR	35	30.549	47.206	10.454	0.00	0.00
ATOM	562	CG2	THR	35	29.363	47.267	12.201	0.00	0.00
ATOM	563	1HG2	THR	35	29.014	47.227	12.359	0.00	0.00
ATOM	564	2HG2	THR	35	29.088	47.002	12.351	0.00	0.00
ATOM	565	3HG2	THR	35	29.172	47.148	12.515	0.00	0.00
ATOM	566	OG1	THR	35	30.065	49.098	10.959	0.00	0.00
ATOM	567	HG1	THR	35	30.666	49.417	10.315	0.00	0.00
ATOM	568	C	THR	35	32.277	46.452	12.401	0.00	0.00
ATOM	569	O	THR	35	31.982	45.995	13.485	0.00	0.00
ATOM	570	N	GLU	36	33.036	45.777	11.552	0.00	0.00
ATOM	571	H	GLU	36	33.213	46.176	10.662	0.00	0.00
ATOM	572	CA	GLU	36	33.650	44.489	11.868	0.00	0.00
ATOM	573	HA	GLU	36	32.878	43.807	12.181	0.00	0.00
ATOM	574	CB	GLU	36	34.313	43.931	10.612	0.00	0.00
ATOM	575	HB2	GLU	36	33.650	44.059	9.783	0.00	0.00
ATOM	576	HB3	GLU	36	35.197	44.488	10.405	0.00	0.00
ATOM	577	CG	GLU	36	34.649	42.467	10.702	0.00	0.00
ATOM	578	HG2	GLU	36	34.644	42.143	11.513	0.00	0.00
ATOM	579	HG3	GLU	36	34.055	42.021	10.268	0.00	0.00
ATOM	580	CD	GLU	36	35.795	42.018	10.247	0.00	0.00
ATOM	581	OE1	GLU	36	35.739	41.474	9.627	0.00	0.00
ATOM	582	OE2	GLU	36	36.780	42.197	10.494	0.00	0.00
ATOM	583	C	GLU	36	34.655	44.592	13.024	0.00	0.00
ATOM	584	O	GLU	36	34.687	43.745	13.891	0.00	0.00
ATOM	585	N	GLU	37	35.428	45.657	13.090	0.00	0.00
ATOM	586	H	GLU	37	35.321	46.336	12.383	0.00	0.00
ATOM	587	CA	GLU	37	36.382	45.912	14.168	0.00	0.00
ATOM	588	HA	GLU	37	36.921	44.996	14.374	0.00	0.00
ATOM	589	CB	GLU	37	37.382	46.975	13.701	0.00	0.00
ATOM	590	HB2	GLU	37	37.644	46.773	12.681	0.00	0.00
ATOM	591	HB3	GLU	37	36.911	47.940	13.726	0.00	0.00
ATOM	592	CG	GLU	37	38.655	47.046	14.523	0.00	0.00
ATOM	593	HG2	GLU	37	39.234	47.882	14.180	0.00	0.00
ATOM	594	HG3	GLU	37	38.398	47.224	15.546	0.00	0.00
ATOM	595	CD	GLU	37	39.488	45.789	14.403	0.00	0.00
ATOM	596	OE1	GLU	37	39.723	45.108	15.397	0.00	0.00
ATOM	597	OE2	GLU	37	39.881	45.429	13.307	0.00	0.00
ATOM	598	C	GLU	37	35.686	46.317	15.469	0.00	0.00
ATOM	599	O	GLU	37	36.045	45.831	16.532	0.00	0.00
ATOM	600	N	VAL	38	34.653	47.147	15.397	0.00	0.00
ATOM	601	H	VAL	38	34.430	47.536	14.508	0.00	0.00
ATOM	602	CA	VAL	38	33.814	47.517	16.537	0.00	0.00
ATOM	603	HA	VAL	38	34.455	47.880	17.327	0.00	0.00
ATOM	604	CB	VAL	38	32.829	48.643	16.174	0.00	0.00
ATOM	605	HB	VAL	38	32.316	48.375	15.295	0.00	0.00
ATOM	606	CG1	VAL	38	31.807	48.919	17.222	0.00	0.00
ATOM	607	1HG1	VAL	38	31.906	48.763	17.864	0.00	0.00
ATOM	608	2HG1	VAL	38	31.561	49.561	17.358	0.00	0.00
ATOM	609	3HG1	VAL	38	31.182	48.645	17.201	0.00	0.00
ATOM	610	CG2	VAL	38	33.525	49.930	15.917	0.00	0.00
ATOM	611	1HG2	VAL	38	33.858	50.078	15.479	0.00	0.00
ATOM	612	2HG2	VAL	38	33.294	50.427	15.836	0.00	0.00
ATOM	613	3HG2	VAL	38	33.938	50.232	16.235	0.00	0.00
ATOM	614	C	VAL	38	33.076	46.305	17.090	0.00	0.00
ATOM	615	O	VAL	38	33.083	46.116	18.292	0.00	0.00
ATOM	616	N	PHE	39	32.475	45.466	16.251	0.00	0.00
ATOM	617	H	PHE	39	32.508	45.673	15.278	0.00	0.00
ATOM	618	CA	PHE	39	31.691	44.317	16.685	0.00	0.00
ATOM	619	HA	PHE	39	30.995	44.661	17.436	0.00	0.00
ATOM	620	CB	PHE	39	30.855	43.778	15.530	0.00	0.00
ATOM	621	HB2	PHE	39	30.356	44.598	15.059	0.00	0.00
ATOM	622	HB3	PHE	39	31.503	43.351	14.793	0.00	0.00
ATOM	623	CG	PHE	39	29.813	42.771	15.921	0.00	0.00
ATOM	624	CD1	PHE	39	29.237	42.457	15.973	0.00	0.00
ATOM	625	HD1	PHE	39	29.532	42.923	15.748	0.00	0.00
ATOM	626	CE1	PHE	39	28.280	41.529	16.326	0.00	0.00
ATOM	627	HE1	PHE	39	27.854	41.292	16.372	0.00	0.00
ATOM	628	CZ	PHE	39	27.890	40.912	16.632	0.00	0.00
ATOM	629	HZ	PHE	39	27.167	40.197	16.900	0.00	0.00

ATOM	630	CE2	PHE	39	28.456	41.221	16.589	0.00	0.00
ATOM	631	HE2	PHE	39	28.160	40.751	16.827	0.00	0.00
ATOM	632	CD2	PHE	39	29.416	42.147	16.235	0.00	0.00
ATOM	633	HD2	PHE	39	29.854	42.374	16.205	0.00	0.00
ATOM	634	C	PHE	39	32.546	43.234	17.341	0.00	0.00
ATOM	635	O	PHE	39	32.185	42.762	18.407	0.00	0.00
ATOM	636	N	ARG	40	33.716	42.895	16.787	0.00	0.00
ATOM	637	H	ARG	40	33.967	43.312	15.918	0.00	0.00
ATOM	638	CA	ARG	40	34.664	41.974	17.435	0.00	0.00
ATOM	639	HA	ARG	40	34.161	41.036	17.631	0.00	0.00
ATOM	640	CB	ARG	40	35.882	41.713	16.540	0.00	0.00
ATOM	641	HB2	ARG	40	36.271	42.647	16.171	0.00	0.00
ATOM	642	HB3	ARG	40	36.645	41.255	17.145	0.00	0.00
ATOM	643	CG	ARG	40	35.577	40.783	15.369	0.00	0.00
ATOM	644	HG2	ARG	40	35.071	39.913	15.746	0.00	0.00
ATOM	645	HG3	ARG	40	34.922	41.285	14.682	0.00	0.00
ATOM	646	CD	ARG	40	36.825	40.311	14.630	0.00	0.00
ATOM	647	HD2	ARG	40	37.599	40.068	15.334	0.00	0.00
ATOM	648	HD3	ARG	40	36.568	39.404	14.116	0.00	0.00
ATOM	649	NE	ARG	40	37.302	41.283	13.649	0.00	0.00
ATOM	650	HE	ARG	40	36.932	41.201	12.734	0.00	0.00
ATOM	651	CZ	ARG	40	38.131	42.281	13.805	0.00	0.00
ATOM	652	NH1	ARG	40	38.745	42.531	14.907	0.00	0.00
ATOM	653	1HH1	ARG	40	38.709	41.895	15.667	0.00	0.00
ATOM	654	2HH1	ARG	40	39.270	43.370	14.994	0.00	0.00
ATOM	655	NH2	ARG	40	38.351	43.080	12.824	0.00	0.00
ATOM	656	1HH2	ARG	40	37.905	42.914	11.957	0.00	0.00
ATOM	657	2HH2	ARG	40	38.970	43.848	12.933	0.00	0.00
ATOM	658	C	ARG	40	35.115	42.486	18.800	0.00	0.00
ATOM	659	O	ARG	40	35.139	41.733	19.759	0.00	0.00
ATOM	660	N	SER	41	35.392	43.777	18.903	0.00	0.00
ATOM	661	H	SER	41	35.350	44.320	18.073	0.00	0.00
ATOM	662	CA	SER	41	35.772	44.427	20.151	0.00	0.00
ATOM	663	HA	SER	41	36.586	43.868	20.593	0.00	0.00
ATOM	664	CB	SER	41	36.278	45.840	19.883	0.00	0.00
ATOM	665	HB2	SER	41	35.474	46.461	19.536	0.00	0.00
ATOM	666	HB3	SER	41	36.656	46.252	20.801	0.00	0.00
ATOM	667	OG	SER	41	37.288	45.848	18.910	0.00	0.00
ATOM	668	HG	SER	41	36.877	45.864	18.077	0.00	0.00
ATOM	669	C	SER	41	34.624	44.446	21.161	0.00	0.00
ATOM	670	O	SER	41	34.822	44.128	22.320	0.00	0.00
ATOM	671	N	TYR	42	33.404	44.755	20.726	0.00	0.00
ATOM	672	H	TYR	42	33.302	45.018	19.770	0.00	0.00
ATOM	673	CA	TYR	42	32.191	44.737	21.538	0.00	0.00
ATOM	674	HA	TYR	42	32.322	45.405	22.379	0.00	0.00
ATOM	675	CB	TYR	42	31.021	45.255	20.704	0.00	0.00
ATOM	676	HB2	TYR	42	31.155	46.303	20.554	0.00	0.00
ATOM	677	HB3	TYR	42	31.053	44.795	19.740	0.00	0.00
ATOM	678	CG	TYR	42	29.643	45.013	21.266	0.00	0.00
ATOM	679	CD1	TYR	42	29.177	45.751	22.278	0.00	0.00
ATOM	680	HD1	TYR	42	29.806	46.485	22.665	0.00	0.00
ATOM	681	CE1	TYR	42	27.900	45.529	22.776	0.00	0.00
ATOM	682	HE1	TYR	42	27.547	46.101	23.535	0.00	0.00
ATOM	683	CZ	TYR	42	27.087	44.556	22.273	0.00	0.00
ATOM	684	OH	TYR	42	25.857	44.340	22.742	0.00	0.00
ATOM	685	HH	TYR	42	25.646	44.896	23.377	0.00	0.00
ATOM	686	CE2	TYR	42	27.550	43.817	21.262	0.00	0.00
ATOM	687	HE2	TYR	42	26.919	43.082	20.873	0.00	0.00
ATOM	688	CD2	TYR	42	28.824	44.042	20.752	0.00	0.00
ATOM	689	HD2	TYR	42	29.172	43.474	19.971	0.00	0.00
ATOM	690	C	TYR	42	31.905	43.352	22.114	0.00	0.00
ATOM	691	O	TYR	42	31.702	43.240	23.310	0.00	0.00
ATOM	692	N	VAL	43	31.961	42.292	21.313	0.00	0.00
ATOM	693	H	VAL	43	32.141	42.444	20.345	0.00	0.00
ATOM	694	CA	VAL	43	31.734	40.907	21.768	0.00	0.00
ATOM	695	HA	VAL	43	30.770	40.869	22.258	0.00	0.00
ATOM	696	CB	VAL	43	31.702	39.929	20.577	0.00	0.00
ATOM	697	HB	VAL	43	32.579	40.086	19.973	0.00	0.00
ATOM	698	CG1	VAL	43	31.669	38.464	20.994	0.00	0.00
ATOM	699	1HG1	VAL	43	31.283	38.156	21.285	0.00	0.00
ATOM	700	2HG1	VAL	43	31.680	37.980	20.675	0.00	0.00
ATOM	701	3HG1	VAL	43	32.029	38.157	21.314	0.00	0.00
ATOM	702	CG2	VAL	43	30.483	40.162	19.697	0.00	0.00
ATOM	703	1HG2	VAL	43	30.153	40.172	19.496	0.00	0.00
ATOM	704	2HG2	VAL	43	30.190	40.274	19.503	0.00	0.00
ATOM	705	3HG2	VAL	43	30.215	40.212	19.416	0.00	0.00
ATOM	706	C	VAL	43	32.768	40.497	22.817	0.00	0.00
ATOM	707	O	VAL	43	32.397	39.937	23.835	0.00	0.00
ATOM	708	N	PHE	44	34.042	40.832	22.628	0.00	0.00
ATOM	709	H	PHE	44	34.291	41.299	21.782	0.00	0.00
ATOM	710	CA	PHE	44	35.084	40.559	23.611	0.00	0.00
ATOM	711	HA	PHE	44	35.036	39.510	23.864	0.00	0.00
ATOM	712	CB	PHE	44	36.464	40.818	23.017	0.00	0.00
ATOM	713	HB2	PHE	44	36.574	40.240	22.119	0.00	0.00
ATOM	714	HB3	PHE	44	36.547	41.852	22.748	0.00	0.00
ATOM	715	CG	PHE	44	37.585	40.464	23.958	0.00	0.00
ATOM	716	CD1	PHE	44	38.006	39.163	24.072	0.00	0.00
ATOM	717	HD1	PHE	44	37.561	38.424	23.470	0.00	0.00
ATOM	718	CE1	PHE	44	39.008	38.831	24.971	0.00	0.00
ATOM	719	HE1	PHE	44	39.323	37.839	25.050	0.00	0.00
ATOM	720	CZ	PHE	44	39.591	39.794	25.764	0.00	0.00
ATOM	721	HZ	PHE	44	40.351	39.536	26.457	0.00	0.00
ATOM	722	CE2	PHE	44	39.179	41.089	25.646	0.00	0.00
ATOM	723	HE2	PHE	44	39.630	41.828	26.245	0.00	0.00
ATOM	724	CD2	PHE	44	38.176	41.425	24.753	0.00	0.00
ATOM	725	HD2	PHE	44	37.868	42.425	24.675	0.00	0.00
ATOM	726	C	PHE	44	34.876	41.335	24.918	0.00	0.00
ATOM	727	O	PHE	44	34.867	40.734	25.984	0.00	0.00
ATOM	728	N	TYR	45	34.662	42.643	24.867	0.00	0.00
ATOM	729	H	TYR	45	34.673	43.096	23.980	0.00	0.00
ATOM	730	CA	TYR	45	34.528	43.465	26.074	0.00	0.00
ATOM	731	HA	TYR	45	35.301	43.148	26.763	0.00	0.00
ATOM	732	CB	TYR	45	34.778	44.942	25.759	0.00	0.00
ATOM	733	HB2	TYR	45	34.135	45.248	24.951	0.00	0.00
ATOM	734	HB3	TYR	45	34.507	45.519	26.625	0.00	0.00

ATOM	735	CG	TYR	45	36.216	45.269	25.420	0.00	0.00
ATOM	736	CD1	TYR	45	37.237	44.933	26.306	0.00	0.00
ATOM	737	HD1	TYR	45	37.013	44.445	27.227	0.00	0.00
ATOM	738	CE1	TYR	45	38.562	45.235	26.003	0.00	0.00
ATOM	739	HE1	TYR	45	39.331	44.967	26.684	0.00	0.00
ATOM	740	CZ	TYR	45	38.875	45.897	24.815	0.00	0.00
ATOM	741	OH	TYR	45	40.146	46.220	24.526	0.00	0.00
ATOM	742	HH	TYR	45	40.733	45.916	25.180	0.00	0.00
ATOM	743	CE2	TYR	45	37.858	46.244	23.933	0.00	0.00
ATOM	744	HE2	TYR	45	38.109	46.758	23.036	0.00	0.00
ATOM	745	CD2	TYR	45	36.535	45.931	24.235	0.00	0.00
ATOM	746	HD2	TYR	45	35.769	46.195	23.548	0.00	0.00
ATOM	747	C	TYR	45	33.209	43.239	26.819	0.00	0.00
ATOM	748	O	TYR	45	33.221	43.227	28.042	0.00	0.00
ATOM	749	N	ARG	46	32.109	42.938	26.121	0.00	0.00
ATOM	750	H	ARG	46	32.155	42.988	25.125	0.00	0.00
ATOM	751	CA	ARG	46	30.841	42.515	26.731	0.00	0.00
ATOM	752	HA	ARG	46	30.570	43.251	27.476	0.00	0.00
ATOM	753	CB	ARG	46	29.746	42.498	25.655	0.00	0.00
ATOM	754	HB2	ARG	46	29.639	43.491	25.255	0.00	0.00
ATOM	755	HB3	ARG	46	30.062	41.855	24.851	0.00	0.00
ATOM	756	CG	ARG	46	28.366	42.017	26.099	0.00	0.00
ATOM	757	HG2	ARG	46	27.705	42.075	25.255	0.00	0.00
ATOM	758	HG3	ARG	46	28.444	40.978	26.368	0.00	0.00
ATOM	759	CD	ARG	46	27.736	42.767	27.258	0.00	0.00
ATOM	760	HD2	ARG	46	28.431	42.848	28.071	0.00	0.00
ATOM	761	HD3	ARG	46	27.488	43.759	26.944	0.00	0.00
ATOM	762	NE	ARG	46	26.531	42.086	27.726	0.00	0.00
ATOM	763	HE	ARG	46	25.665	42.412	27.386	0.00	0.00
ATOM	764	CZ	ARG	46	26.466	41.056	28.528	0.00	0.00
ATOM	765	NH1	ARG	46	27.496	40.529	29.081	0.00	0.00
ATOM	766	1HH1	ARG	46	28.393	40.903	28.918	0.00	0.00
ATOM	767	2HH1	ARG	46	27.390	39.780	29.716	0.00	0.00
ATOM	768	NH2	ARG	46	25.335	40.517	28.780	0.00	0.00
ATOM	769	1HH2	ARG	46	24.527	40.860	28.332	0.00	0.00
ATOM	770	2HH2	ARG	46	25.275	39.753	29.392	0.00	0.00
ATOM	771	C	ARG	46	30.971	41.187	27.479	0.00	0.00
ATOM	772	O	ARG	46	30.309	41.005	28.482	0.00	0.00
ATOM	773	N	HIP	47	31.870	40.307	27.055	0.00	0.00
ATOM	774	H	HIP	47	32.332	40.512	26.200	0.00	0.00
ATOM	775	CA	HIP	47	32.239	39.084	27.772	0.00	0.00
ATOM	776	HA	HIP	47	31.352	38.680	28.245	0.00	0.00
ATOM	777	CB	HIP	47	32.732	38.053	26.752	0.00	0.00
ATOM	778	HB2	HIP	47	32.009	37.976	25.959	0.00	0.00
ATOM	779	HB3	HIP	47	33.655	38.386	26.309	0.00	0.00
ATOM	780	CG	HIP	47	32.941	36.681	27.309	0.00	0.00
ATOM	781	ND1	HIP	47	34.139	36.099	27.584	0.00	0.00
ATOM	782	HD1	HIP	47	35.017	36.540	27.494	0.00	0.00
ATOM	783	CE1	HIP	47	33.912	34.860	28.012	0.00	0.00
ATOM	784	HE1	HIP	47	34.648	34.169	28.326	0.00	0.00
ATOM	785	NE2	HIP	47	32.610	34.635	28.008	0.00	0.00
ATOM	786	HE2	HIP	47	32.170	33.804	28.309	0.00	0.00
ATOM	787	CD2	HIP	47	31.985	35.767	27.566	0.00	0.00
ATOM	788	HD2	HIP	47	30.946	35.903	27.451	0.00	0.00
ATOM	789	C	HIP	47	33.247	39.339	28.902	0.00	0.00
ATOM	790	O	HIP	47	33.081	38.807	29.975	0.00	0.00
ATOM	791	N	GLN	48	34.237	40.199	28.706	0.00	0.00
ATOM	792	H	GLN	48	34.341	40.573	27.796	0.00	0.00
ATOM	793	CA	GLN	48	35.277	40.513	29.691	0.00	0.00
ATOM	794	HA	GLN	48	35.692	39.584	30.059	0.00	0.00
ATOM	795	CB	GLN	48	36.419	41.289	29.024	0.00	0.00
ATOM	796	HB2	GLN	48	36.783	40.728	28.190	0.00	0.00
ATOM	797	HB3	GLN	48	36.050	42.223	28.659	0.00	0.00
ATOM	798	CG	GLN	48	37.579	41.557	29.972	0.00	0.00
ATOM	799	HG2	GLN	48	37.258	42.192	30.751	0.00	0.00
ATOM	800	HG3	GLN	48	37.883	40.647	30.410	0.00	0.00
ATOM	801	CD	GLN	48	38.767	42.212	29.325	0.00	0.00
ATOM	802	OE1	GLN	48	38.757	43.339	28.962	0.00	0.00
ATOM	803	NE2	GLN	48	39.839	41.544	29.178	0.00	0.00
ATOM	804	1HE2	GLN	48	40.600	41.970	28.726	0.00	0.00
ATOM	805	2HE2	GLN	48	39.892	40.619	29.490	0.00	0.00
ATOM	806	C	GLN	48	34.737	41.273	30.910	0.00	0.00
ATOM	807	O	GLN	48	35.119	40.970	32.027	0.00	0.00
ATOM	808	N	GLN	49	33.823	42.219	30.736	0.00	0.00
ATOM	809	H	GLN	49	33.556	42.454	29.805	0.00	0.00
ATOM	810	CA	GLN	49	33.332	43.055	31.833	0.00	0.00
ATOM	811	HA	GLN	49	34.199	43.444	32.347	0.00	0.00
ATOM	812	CB	GLN	49	32.577	44.264	31.273	0.00	0.00
ATOM	813	HB2	GLN	49	32.433	44.982	32.059	0.00	0.00
ATOM	814	HB3	GLN	49	33.189	44.725	30.519	0.00	0.00
ATOM	815	CG	GLN	49	31.207	43.937	30.696	0.00	0.00
ATOM	816	HG2	GLN	49	31.281	43.100	30.038	0.00	0.00
ATOM	817	HG3	GLN	49	30.550	43.664	31.492	0.00	0.00
ATOM	818	CD	GLN	49	30.567	45.067	29.926	0.00	0.00
ATOM	819	OE1	GLN	49	31.156	46.034	29.543	0.00	0.00
ATOM	820	NE2	GLN	49	29.315	44.974	29.657	0.00	0.00
ATOM	821	1HE2	GLN	49	28.888	45.688	29.116	0.00	0.00
ATOM	822	2HE2	GLN	49	28.800	44.231	30.050	0.00	0.00
ATOM	823	C	GLN	49	32.532	42.283	32.889	0.00	0.00
ATOM	824	O	GLN	49	32.493	42.685	34.033	0.00	0.00
ATOM	825	N	GLU	50	31.963	41.137	32.542	0.00	0.00
ATOM	826	H	GLU	50	32.015	40.865	31.592	0.00	0.00
ATOM	827	CA	GLU	50	31.346	40.212	33.484	0.00	0.00
ATOM	828	HA	GLU	50	30.763	40.777	34.183	0.00	0.00
ATOM	829	CB	GLU	50	30.394	39.295	32.746	0.00	0.00
ATOM	830	HB2	GLU	50	30.452	39.035	32.391	0.00	0.00
ATOM	831	HB3	GLU	50	30.194	38.934	32.891	0.00	0.00
ATOM	832	CG	GLU	50	29.621	39.190	32.302	0.00	0.00
ATOM	833	HG2	GLU	50	29.596	39.468	32.459	0.00	0.00
ATOM	834	HG3	GLU	50	29.854	39.354	32.149	0.00	0.00
ATOM	835	CD	GLU	50	28.582	38.480	31.848	0.00	0.00
ATOM	836	OE1	GLU	50	28.300	38.011	31.684	0.00	0.00
ATOM	837	OE2	GLU	50	28.016	38.388	31.642	0.00	0.00
ATOM	838	C	GLU	50	32.361	39.413	34.309	0.00	0.00
ATOM	839	O	GLU	50	32.050	38.944	35.375	0.00	0.00

ATOM	840	N	GLN	51	33.592	39.299	33.851	0.00	0.00
ATOM	841	H	GLN	51	33.780	39.726	32.981	0.00	0.00
ATOM	842	CA	GLN	51	34.723	38.718	34.578	0.00	0.00
ATOM	843	HA	GLN	51	34.353	37.966	35.259	0.00	0.00
ATOM	844	CB	GLN	51	35.687	38.042	33.596	0.00	0.00
ATOM	845	HB2	GLN	51	36.098	38.776	32.943	0.00	0.00
ATOM	846	HB3	GLN	51	36.492	37.609	34.146	0.00	0.00
ATOM	847	CG	GLN	51	35.037	36.950	32.768	0.00	0.00
ATOM	848	HG2	GLN	51	34.663	36.217	33.417	0.00	0.00
ATOM	849	HG3	GLN	51	34.223	37.347	32.232	0.00	0.00
ATOM	850	CD	GLN	51	35.957	36.290	31.776	0.00	0.00
ATOM	851	OE1	GLN	51	37.044	36.602	31.594	0.00	0.00
ATOM	852	NE2	GLN	51	35.546	35.359	31.085	0.00	0.00
ATOM	853	1HE2	GLN	51	36.136	34.882	30.453	0.00	0.00
ATOM	854	2HE2	GLN	51	34.660	35.090	31.241	0.00	0.00
ATOM	855	C	GLN	51	35.442	39.773	35.428	0.00	0.00
ATOM	856	O	GLN	51	35.903	39.474	36.511	0.00	0.00
ATOM	857	N	GLU	52	35.473	41.029	35.000	0.00	0.00
ATOM	858	H	GLU	52	35.125	41.204	34.089	0.00	0.00
ATOM	859	CA	GLU	52	35.958	42.170	35.790	0.00	0.00
ATOM	860	HA	GLU	52	36.948	41.946	36.155	0.00	0.00
ATOM	861	CB	GLU	52	36.029	43.438	34.939	0.00	0.00
ATOM	862	HB2	GLU	52	35.067	43.617	34.493	0.00	0.00
ATOM	863	HB3	GLU	52	36.255	44.272	35.579	0.00	0.00
ATOM	864	CG	GLU	52	37.089	43.371	33.853	0.00	0.00
ATOM	865	HG2	GLU	52	38.030	43.155	34.307	0.00	0.00
ATOM	866	HG3	GLU	52	36.856	42.580	33.176	0.00	0.00
ATOM	867	CD	GLU	52	37.206	44.664	33.078	0.00	0.00
ATOM	868	OE1	GLU	52	36.267	45.113	32.463	0.00	0.00
ATOM	869	OE2	GLU	52	38.252	45.255	33.055	0.00	0.00
ATOM	870	C	GLU	52	35.095	42.445	37.018	0.00	0.00
ATOM	871	O	GLU	52	35.581	42.948	38.003	0.00	0.00
ATOM	872	N	ALA	53	33.834	42.052	36.995	0.00	0.00
ATOM	873	H	ALA	53	33.489	41.690	36.145	0.00	0.00
ATOM	874	CA	ALA	53	32.918	42.140	38.118	0.00	0.00
ATOM	875	HA	ALA	53	32.873	43.154	38.439	0.00	0.00
ATOM	876	CB	ALA	53	31.547	41.760	37.644	0.00	0.00
ATOM	877	HB1	ALA	53	31.206	41.904	37.345	0.00	0.00
ATOM	878	HB2	ALA	53	31.348	41.423	37.440	0.00	0.00
ATOM	879	HB3	ALA	53	31.096	41.686	37.812	0.00	0.00
ATOM	880	C	ALA	53	33.333	41.327	39.335	0.00	0.00
ATOM	881	O	ALA	53	32.829	41.548	40.398	0.00	0.00
ATOM	882	N	GLU	54	34.288	40.431	39.216	0.00	0.00
ATOM	883	H	GLU	54	34.653	40.283	38.323	0.00	0.00
ATOM	884	CA	GLU	54	34.882	39.689	40.316	0.00	0.00
ATOM	885	HA	GLU	54	34.136	39.511	41.055	0.00	0.00
ATOM	886	CB	GLU	54	35.343	38.343	39.831	0.00	0.00
ATOM	887	HB2	GLU	54	35.811	38.381	39.111	0.00	0.00
ATOM	888	HB3	GLU	54	35.852	37.941	40.387	0.00	0.00
ATOM	889	CG	GLU	54	34.502	37.471	39.576	0.00	0.00
ATOM	890	HG2	GLU	54	34.023	37.482	40.250	0.00	0.00
ATOM	891	HG3	GLU	54	34.048	37.832	38.984	0.00	0.00
ATOM	892	CD	GLU	54	34.902	36.105	39.226	0.00	0.00
ATOM	893	OE1	GLU	54	35.174	35.572	38.979	0.00	0.00
ATOM	894	OE2	GLU	54	34.940	35.543	39.193	0.00	0.00
ATOM	895	C	GLU	54	35.992	40.447	41.032	0.00	0.00
ATOM	896	O	GLU	54	36.629	39.912	41.854	0.00	0.00
ATOM	897	N	GLY	55	36.222	41.690	40.737	0.00	0.00
ATOM	898	H	GLY	55	35.674	42.070	40.045	0.00	0.00
ATOM	899	CA	GLY	55	37.190	42.550	41.387	0.00	0.00
ATOM	900	HA2	GLY	55	36.822	43.537	41.374	0.00	0.00
ATOM	901	HA3	GLY	55	37.309	42.263	42.396	0.00	0.00
ATOM	902	C	GLY	55	38.559	42.583	40.754	0.00	0.00
ATOM	903	O	GLY	55	39.497	42.849	41.405	0.00	0.00
ATOM	904	N	VAL	56	38.677	42.299	39.505	0.00	0.00
ATOM	905	H	VAL	56	37.861	42.142	39.037	0.00	0.00
ATOM	906	CA	VAL	56	39.917	42.248	38.734	0.00	0.00
ATOM	907	HA	VAL	56	40.716	42.616	39.349	0.00	0.00
ATOM	908	CB	VAL	56	40.276	40.821	38.338	0.00	0.00
ATOM	909	HB	VAL	56	41.162	40.858	37.753	0.00	0.00
ATOM	910	CG1	VAL	56	40.584	39.967	39.531	0.00	0.00
ATOM	911	1HG1	VAL	56	40.746	39.238	39.434	0.00	0.00
ATOM	912	2HG1	VAL	56	41.174	40.158	39.942	0.00	0.00
ATOM	913	3HG1	VAL	56	40.078	39.888	40.081	0.00	0.00
ATOM	914	CG2	VAL	56	39.218	40.133	37.528	0.00	0.00
ATOM	915	1HG2	VAL	56	39.054	39.753	37.348	0.00	0.00
ATOM	916	2HG2	VAL	56	38.813	40.037	37.468	0.00	0.00
ATOM	917	3HG2	VAL	56	39.032	40.090	37.155	0.00	0.00
ATOM	918	C	VAL	56	39.862	43.150	37.519	0.00	0.00
ATOM	919	O	VAL	56	38.807	43.472	37.048	0.00	0.00
ATOM	920	N	ALA	57	40.994	43.546	36.995	0.00	0.00
ATOM	921	H	ALA	57	41.821	43.265	37.430	0.00	0.00
ATOM	922	CA	ALA	57	41.121	44.374	35.821	0.00	0.00
ATOM	923	HA	ALA	57	40.172	44.775	35.567	0.00	0.00
ATOM	924	CB	ALA	57	42.012	45.528	36.143	0.00	0.00
ATOM	925	HB1	ALA	57	42.227	45.709	36.640	0.00	0.00
ATOM	926	HB2	ALA	57	42.528	45.653	35.955	0.00	0.00
ATOM	927	HB3	ALA	57	41.933	46.071	36.070	0.00	0.00
ATOM	928	C	ALA	57	41.618	43.597	34.620	0.00	0.00
ATOM	929	O	ALA	57	42.558	42.849	34.725	0.00	0.00
ATOM	930	N	ALA	58	41.005	43.795	33.476	0.00	0.00
ATOM	931	H	ALA	58	40.250	44.415	33.479	0.00	0.00
ATOM	932	CA	ALA	58	41.359	43.242	32.188	0.00	0.00
ATOM	933	HA	ALA	58	40.483	43.281	31.596	0.00	0.00
ATOM	934	CB	ALA	58	42.342	44.171	31.560	0.00	0.00
ATOM	935	HB1	ALA	58	42.297	44.623	31.441	0.00	0.00
ATOM	936	HB2	ALA	58	42.611	44.204	31.103	0.00	0.00
ATOM	937	HB3	ALA	58	42.809	44.372	31.665	0.00	0.00
ATOM	938	C	ALA	58	41.781	41.771	32.152	0.00	0.00
ATOM	939	O	ALA	58	42.835	41.470	31.642	0.00	0.00
ATOM	940	N	PRO	59	41.011	40.830	32.680	0.00	0.00
ATOM	941	CD	PRO	59	39.727	41.005	33.280	0.00	0.00
ATOM	942	HD2	PRO	59	39.084	41.570	32.654	0.00	0.00
ATOM	943	HD3	PRO	59	39.835	41.482	34.234	0.00	0.00
ATOM	944	CG	PRO	59	39.162	39.633	33.488	0.00	0.00

ATOM	945	HG2	PRO	59	38.617	39.325	32.621	0.00	0.00
ATOM	946	HG3	PRO	59	38.555	39.590	34.363	0.00	0.00
ATOM	947	CB	PRO	59	40.386	38.793	33.636	0.00	0.00
ATOM	948	HB2	PRO	59	40.735	38.868	34.640	0.00	0.00
ATOM	949	HB3	PRO	59	40.197	37.781	33.375	0.00	0.00
ATOM	950	CA	PRO	59	41.375	39.437	32.709	0.00	0.00
ATOM	951	HA	PRO	59	42.354	39.330	33.119	0.00	0.00
ATOM	952	C	PRO	59	41.348	38.795	31.325	0.00	0.00
ATOM	953	O	PRO	59	40.464	39.033	30.538	0.00	0.00
ATOM	954	N	ALA	60	42.294	37.945	31.037	0.00	0.00
ATOM	955	H	ALA	60	42.972	37.789	31.719	0.00	0.00
ATOM	956	CA	ALA	60	42.346	37.141	29.835	0.00	0.00
ATOM	957	HA	ALA	60	41.979	37.710	29.023	0.00	0.00
ATOM	958	CB	ALA	60	43.769	36.820	29.557	0.00	0.00
ATOM	959	HB1	ALA	60	44.098	36.791	29.348	0.00	0.00
ATOM	960	HB2	ALA	60	44.179	36.832	29.588	0.00	0.00
ATOM	961	HB3	ALA	60	44.064	36.601	29.524	0.00	0.00
ATOM	962	C	ALA	60	41.493	35.895	29.930	0.00	0.00
ATOM	963	O	ALA	60	41.374	35.341	30.928	0.00	0.00
ATOM	964	N	ASP	61	40.912	35.432	28.891	0.00	0.00
ATOM	965	H	ASP	61	41.063	35.915	28.097	0.00	0.00
ATOM	966	CA	ASP	61	40.093	34.231	28.821	0.00	0.00
ATOM	967	HA	ASP	61	39.887	33.919	29.818	0.00	0.00
ATOM	968	CB	ASP	61	38.762	34.568	28.192	0.00	0.00
ATOM	969	HB2	ASP	61	38.376	35.428	28.673	0.00	0.00
ATOM	970	HB3	ASP	61	38.897	34.789	27.168	0.00	0.00
ATOM	971	CG	ASP	61	37.768	33.450	28.330	0.00	0.00
ATOM	972	OD1	ASP	61	36.902	33.547	29.152	0.00	0.00
ATOM	973	OD2	ASP	61	37.864	32.463	27.639	0.00	0.00
ATOM	974	C	ASP	61	40.797	33.110	28.066	0.00	0.00
ATOM	975	O	ASP	61	41.273	33.337	26.997	0.00	0.00
ATOM	976	N	PRO	62	40.869	31.905	28.572	0.00	0.00
ATOM	977	CD	PRO	62	40.450	31.536	29.855	0.00	0.00
ATOM	978	HD2	PRO	62	39.448	31.572	29.951	0.00	0.00
ATOM	979	HD3	PRO	62	40.853	32.132	30.595	0.00	0.00
ATOM	980	CG	PRO	62	40.912	30.203	30.009	0.00	0.00
ATOM	981	HG2	PRO	62	40.247	29.655	29.975	0.00	0.00
ATOM	982	HG3	PRO	62	41.313	30.141	30.773	0.00	0.00
ATOM	983	CB	PRO	62	41.756	29.815	29.012	0.00	0.00
ATOM	984	HB2	PRO	62	42.635	29.821	29.359	0.00	0.00
ATOM	985	HB3	PRO	62	41.555	28.914	28.735	0.00	0.00
ATOM	986	CA	PRO	62	41.584	30.816	27.943	0.00	0.00
ATOM	987	HA	PRO	62	42.529	31.164	27.651	0.00	0.00
ATOM	988	C	PRO	62	40.937	30.197	26.729	0.00	0.00
ATOM	989	O	PRO	62	41.573	29.449	26.039	0.00	0.00
ATOM	990	N	GLU	63	39.694	30.474	26.451	0.00	0.00
ATOM	991	H	GLU	63	39.221	31.102	27.045	0.00	0.00
ATOM	992	CA	GLU	63	38.940	29.886	25.357	0.00	0.00
ATOM	993	HA	GLU	63	39.554	29.178	24.837	0.00	0.00
ATOM	994	CB	GLU	63	37.755	29.123	25.908	0.00	0.00
ATOM	995	HB2	GLU	63	37.465	29.321	26.598	0.00	0.00
ATOM	996	HB3	GLU	63	37.143	29.176	25.508	0.00	0.00
ATOM	997	CG	GLU	63	37.750	28.029	26.096	0.00	0.00
ATOM	998	HG2	GLU	63	37.863	27.791	26.076	0.00	0.00
ATOM	999	HG3	GLU	63	37.787	28.211	26.290	0.00	0.00
ATOM	1000	CD	GLU	63	37.508	26.992	26.053	0.00	0.00
ATOM	1001	OE1	GLU	63	37.493	26.676	25.843	0.00	0.00
ATOM	1002	OE2	GLU	63	37.331	26.473	26.231	0.00	0.00
ATOM	1003	C	GLU	63	38.504	30.899	24.306	0.00	0.00
ATOM	1004	O	GLU	63	38.472	30.571	23.135	0.00	0.00
ATOM	1005	N	MET	64	38.265	32.152	24.671	0.00	0.00
ATOM	1006	H	MET	64	38.278	32.353	25.639	0.00	0.00
ATOM	1007	CA	MET	64	37.906	33.230	23.746	0.00	0.00
ATOM	1008	HA	MET	64	37.278	32.787	22.996	0.00	0.00
ATOM	1009	CB	MET	64	37.070	34.286	24.459	0.00	0.00
ATOM	1010	HB2	MET	64	36.438	33.830	25.150	0.00	0.00
ATOM	1011	HB3	MET	64	37.680	34.939	24.986	0.00	0.00
ATOM	1012	CG	MET	64	36.215	35.076	23.549	0.00	0.00
ATOM	1013	HG2	MET	64	36.627	35.642	23.117	0.00	0.00
ATOM	1014	HG3	MET	64	35.918	34.566	23.013	0.00	0.00
ATOM	1015	SD	MET	64	35.024	35.954	23.964	0.00	0.00
ATOM	1016	CE	MET	64	33.706	35.381	23.799	0.00	0.00
ATOM	1017	HE1	MET	64	33.522	35.150	23.784	0.00	0.00
ATOM	1018	HE2	MET	64	33.390	35.325	23.886	0.00	0.00
ATOM	1019	HE3	MET	64	33.403	35.326	23.632	0.00	0.00
ATOM	1020	C	MET	64	39.111	33.790	22.986	0.00	0.00
ATOM	1021	O	MET	64	39.132	34.852	22.575	0.00	0.00
ATOM	1022	N	VAL	65	40.124	33.055	22.767	0.00	0.00
ATOM	1023	H	VAL	65	40.042	32.201	23.149	0.00	0.00
ATOM	1024	CA	VAL	65	41.338	33.341	21.996	0.00	0.00
ATOM	1025	HA	VAL	65	41.663	34.331	22.243	0.00	0.00
ATOM	1026	CB	VAL	65	42.464	32.389	22.377	0.00	0.00
ATOM	1027	HB	VAL	65	43.317	32.626	21.786	0.00	0.00
ATOM	1028	CG1	VAL	65	42.855	32.560	23.815	0.00	0.00
ATOM	1029	1HG1	VAL	65	42.670	32.623	24.252	0.00	0.00
ATOM	1030	2HG1	VAL	65	43.097	32.849	24.068	0.00	0.00
ATOM	1031	3HG1	VAL	65	43.089	32.351	24.165	0.00	0.00
ATOM	1032	CG2	VAL	65	42.150	30.942	22.138	0.00	0.00
ATOM	1033	1HG2	VAL	65	41.959	30.680	21.772	0.00	0.00
ATOM	1034	2HG2	VAL	65	42.427	30.515	22.106	0.00	0.00
ATOM	1035	3HG2	VAL	65	41.869	30.558	22.357	0.00	0.00
ATOM	1036	C	VAL	65	41.126	33.328	20.493	0.00	0.00
ATOM	1037	O	VAL	65	41.968	33.695	19.749	0.00	0.00
ATOM	1038	N	THR	66	39.992	32.924	20.030	0.00	0.00
ATOM	1039	H	THR	66	39.344	32.637	20.691	0.00	0.00
ATOM	1040	CA	THR	66	39.575	32.823	18.637	0.00	0.00
ATOM	1041	HA	THR	66	40.418	32.516	18.045	0.00	0.00
ATOM	1042	CB	THR	66	38.489	31.764	18.502	0.00	0.00
ATOM	1043	HB	THR	66	38.123	31.749	17.499	0.00	0.00
ATOM	1044	CG2	THR	66	38.975	30.382	18.836	0.00	0.00
ATOM	1045	1HG2	THR	66	39.063	30.031	18.980	0.00	0.00
ATOM	1046	2HG2	THR	66	39.052	30.014	18.845	0.00	0.00
ATOM	1047	3HG2	THR	66	39.160	30.076	18.900	0.00	0.00
ATOM	1048	OG1	THR	66	37.453	32.056	19.365	0.00	0.00
ATOM	1049	HG1	THR	66	36.717	31.582	19.092	0.00	0.00

ATOM	1050	C	THR	66	39.075	34.129	18.034	0.00	0.00
ATOM	1051	O	THR	66	38.783	34.173	16.880	0.00	0.00
ATOM	1052	N	LEU	67	38.964	35.189	18.793	0.00	0.00
ATOM	1053	H	LEU	67	39.231	35.071	19.713	0.00	0.00
ATOM	1054	CA	LEU	67	38.397	36.469	18.415	0.00	0.00
ATOM	1055	HA	LEU	67	38.001	36.389	17.422	0.00	0.00
ATOM	1056	CB	LEU	67	37.230	36.740	19.342	0.00	0.00
ATOM	1057	HB2	LEU	67	36.584	35.886	19.341	0.00	0.00
ATOM	1058	HB3	LEU	67	37.596	36.847	20.329	0.00	0.00
ATOM	1059	CG	LEU	67	36.404	37.951	19.001	0.00	0.00
ATOM	1060	HG	LEU	67	37.024	38.814	19.022	0.00	0.00
ATOM	1061	CD1	LEU	67	35.770	37.855	17.662	0.00	0.00
ATOM	1062	1HD1	LEU	67	35.685	37.906	17.326	0.00	0.00
ATOM	1063	2HD1	LEU	67	35.630	37.744	17.315	0.00	0.00
ATOM	1064	3HD1	LEU	67	35.536	37.856	17.374	0.00	0.00
ATOM	1065	CD2	LEU	67	35.306	38.113	20.010	0.00	0.00
ATOM	1066	1HD2	LEU	67	35.327	38.113	20.547	0.00	0.00
ATOM	1067	2HD2	LEU	67	34.948	38.526	20.121	0.00	0.00
ATOM	1068	3HD2	LEU	67	34.861	37.837	20.104	0.00	0.00
ATOM	1069	C	LEU	67	39.452	37.587	18.446	0.00	0.00
ATOM	1070	O	LEU	67	39.838	37.997	19.517	0.00	0.00
ATOM	1071	N	PRO	68	39.941	38.079	17.315	0.00	0.00
ATOM	1072	CD	PRO	68	39.704	37.562	15.998	0.00	0.00
ATOM	1073	HD2	PRO	68	38.707	37.706	15.705	0.00	0.00
ATOM	1074	HD3	PRO	68	39.955	36.542	15.951	0.00	0.00
ATOM	1075	CG	PRO	68	40.599	38.319	15.086	0.00	0.00
ATOM	1076	HG2	PRO	68	40.070	38.966	14.575	0.00	0.00
ATOM	1077	HG3	PRO	68	41.071	37.709	14.478	0.00	0.00
ATOM	1078	CB	PRO	68	41.557	39.032	15.892	0.00	0.00
ATOM	1079	HB2	PRO	68	42.408	38.501	15.906	0.00	0.00
ATOM	1080	HB3	PRO	68	41.742	39.939	15.506	0.00	0.00
ATOM	1081	CA	PRO	68	40.955	39.119	17.267	0.00	0.00
ATOM	1082	HA	PRO	68	41.721	38.901	17.983	0.00	0.00
ATOM	1083	C	PRO	68	40.406	40.512	17.542	0.00	0.00
ATOM	1084	O	PRO	68	39.325	40.859	17.111	0.00	0.00
ATOM	1085	N	LEU	69	41.198	41.339	18.207	0.00	0.00
ATOM	1086	H	LEU	69	42.065	40.980	18.508	0.00	0.00
ATOM	1087	CA	LEU	69	40.993	42.768	18.412	0.00	0.00
ATOM	1088	HA	LEU	69	40.530	43.172	17.534	0.00	0.00
ATOM	1089	CB	LEU	69	40.034	43.034	19.567	0.00	0.00
ATOM	1090	HB2	LEU	69	39.785	44.062	19.536	0.00	0.00
ATOM	1091	HB3	LEU	69	39.125	42.514	19.397	0.00	0.00
ATOM	1092	CG	LEU	69	40.508	42.722	20.962	0.00	0.00
ATOM	1093	HG	LEU	69	41.338	42.828	21.048	0.00	0.00
ATOM	1094	CD1	LEU	69	40.034	43.424	21.874	0.00	0.00
ATOM	1095	1HD1	LEU	69	39.977	43.912	21.739	0.00	0.00
ATOM	1096	2HD1	LEU	69	40.241	43.473	22.494	0.00	0.00
ATOM	1097	3HD1	LEU	69	39.561	43.399	22.073	0.00	0.00
ATOM	1098	CD2	LEU	69	40.290	41.601	21.411	0.00	0.00
ATOM	1099	1HD2	LEU	69	40.193	41.377	21.128	0.00	0.00
ATOM	1100	2HD2	LEU	69	40.499	41.234	21.626	0.00	0.00
ATOM	1101	3HD2	LEU	69	40.033	41.364	21.827	0.00	0.00
ATOM	1102	C	LEU	69	42.320	43.495	18.577	0.00	0.00
ATOM	1103	O	LEU	69	43.324	42.882	18.841	0.00	0.00
ATOM	1104	N	GLN	70	42.322	44.803	18.453	0.00	0.00
ATOM	1105	H	GLN	70	41.475	45.242	18.210	0.00	0.00
ATOM	1106	CA	GLN	70	43.474	45.658	18.619	0.00	0.00
ATOM	1107	HA	GLN	70	44.288	45.062	18.961	0.00	0.00
ATOM	1108	CB	GLN	70	43.881	46.207	17.279	0.00	0.00
ATOM	1109	HB2	GLN	70	44.124	45.382	16.670	0.00	0.00
ATOM	1110	HB3	GLN	70	43.072	46.694	16.832	0.00	0.00
ATOM	1111	CG	GLN	70	45.033	47.161	17.268	0.00	0.00
ATOM	1112	HG2	GLN	70	45.308	47.299	16.330	0.00	0.00
ATOM	1113	HG3	GLN	70	44.758	48.059	17.619	0.00	0.00
ATOM	1114	CD	GLN	70	46.182	46.754	18.012	0.00	0.00
ATOM	1115	OE1	GLN	70	46.331	46.993	19.073	0.00	0.00
ATOM	1116	NE2	GLN	70	47.017	46.121	17.511	0.00	0.00
ATOM	1117	1HE2	GLN	70	46.902	45.899	16.647	0.00	0.00
ATOM	1118	2HE2	GLN	70	47.759	45.868	18.007	0.00	0.00
ATOM	1119	C	GLN	70	43.200	46.757	19.632	0.00	0.00
ATOM	1120	O	GLN	70	42.587	47.741	19.306	0.00	0.00
ATOM	1121	N	PRO	71	43.654	46.638	20.850	0.00	0.00
ATOM	1122	CD	PRO	71	44.262	45.477	21.402	0.00	0.00
ATOM	1123	HD2	PRO	71	45.250	45.428	21.140	0.00	0.00
ATOM	1124	HD3	PRO	71	43.780	44.597	21.116	0.00	0.00
ATOM	1125	CG	PRO	71	44.157	45.625	22.836	0.00	0.00
ATOM	1126	HG2	PRO	71	44.932	45.311	23.268	0.00	0.00
ATOM	1127	HG3	PRO	71	43.406	45.159	23.151	0.00	0.00
ATOM	1128	CB	PRO	71	43.976	46.999	23.098	0.00	0.00
ATOM	1129	HB2	PRO	71	43.407	47.105	23.854	0.00	0.00
ATOM	1130	HB3	PRO	71	44.823	47.383	23.300	0.00	0.00
ATOM	1131	CA	PRO	71	43.404	47.607	21.883	0.00	0.00
ATOM	1132	HA	PRO	71	42.372	47.696	21.999	0.00	0.00
ATOM	1133	C	PRO	71	43.955	48.991	21.676	0.00	0.00
ATOM	1134	O	PRO	71	43.467	49.931	22.222	0.00	0.00
ATOM	1135	N	SER	72	44.954	49.133	20.890	0.00	0.00
ATOM	1136	H	SER	72	45.336	48.331	20.496	0.00	0.00
ATOM	1137	CA	SER	72	45.577	50.392	20.609	0.00	0.00
ATOM	1138	HA	SER	72	45.559	50.989	21.470	0.00	0.00
ATOM	1139	CB	SER	72	46.983	50.174	20.265	0.00	0.00
ATOM	1140	HB2	SER	72	47.058	49.646	19.392	0.00	0.00
ATOM	1141	HB3	SER	72	47.443	51.097	20.151	0.00	0.00
ATOM	1142	OG	SER	72	47.608	49.475	21.217	0.00	0.00
ATOM	1143	HG	SER	72	48.064	49.385	21.203	0.00	0.00
ATOM	1144	C	SER	72	44.907	51.203	19.560	0.00	0.00
ATOM	1145	O	SER	72	45.376	52.154	19.171	0.00	0.00
ATOM	1146	N	SER	73	43.816	50.839	19.084	0.00	0.00
ATOM	1147	H	SER	73	43.467	50.073	19.469	0.00	0.00
ATOM	1148	CA	SER	73	43.063	51.505	18.071	0.00	0.00
ATOM	1149	HA	SER	73	43.550	52.337	17.754	0.00	0.00
ATOM	1150	CB	SER	73	42.942	50.617	16.979	0.00	0.00
ATOM	1151	HB2	SER	73	43.144	49.919	16.834	0.00	0.00
ATOM	1152	HB3	SER	73	42.456	50.487	16.820	0.00	0.00
ATOM	1153	OG	SER	73	43.200	50.834	16.338	0.00	0.00
ATOM	1154	HG	SER	73	43.387	50.678	15.797	0.00	0.00

ATOM	1155	C	SER	73	41.755	52.005	18.492	0.00	0.00
ATOM	1156	O	SER	73	41.170	51.457	19.380	0.00	0.00
ATOM	1157	N	THR	74	41.261	53.043	17.849	0.00	0.00
ATOM	1158	H	THR	74	41.783	53.442	17.131	0.00	0.00
ATOM	1159	CA	THR	74	40.037	53.729	18.207	0.00	0.00
ATOM	1160	HA	THR	74	40.141	54.098	19.194	0.00	0.00
ATOM	1161	CB	THR	74	39.812	54.912	17.308	0.00	0.00
ATOM	1162	HB	THR	74	39.187	54.929	16.920	0.00	0.00
ATOM	1163	CG2	THR	74	39.767	55.924	17.681	0.00	0.00
ATOM	1164	1HG2	THR	74	39.714	56.134	17.809	0.00	0.00
ATOM	1165	2HG2	THR	74	39.723	56.266	17.725	0.00	0.00
ATOM	1166	3HG2	THR	74	39.826	56.124	17.780	0.00	0.00
ATOM	1167	OG1	THR	74	40.453	55.113	16.587	0.00	0.00
ATOM	1168	HG1	THR	74	40.504	55.499	16.167	0.00	0.00
ATOM	1169	C	THR	74	38.802	52.850	18.202	0.00	0.00
ATOM	1170	O	THR	74	37.989	52.984	19.089	0.00	0.00
ATOM	1171	N	MET	75	38.675	51.907	17.286	0.00	0.00
ATOM	1172	H	MET	75	39.380	51.821	16.594	0.00	0.00
ATOM	1173	CA	MET	75	37.517	51.004	17.227	0.00	0.00
ATOM	1174	HA	MET	75	36.628	51.604	17.324	0.00	0.00
ATOM	1175	CB	MET	75	37.449	50.315	15.879	0.00	0.00
ATOM	1176	HB2	MET	75	38.341	49.746	15.730	0.00	0.00
ATOM	1177	HB3	MET	75	36.619	49.632	15.879	0.00	0.00
ATOM	1178	CG	MET	75	37.293	51.280	14.723	0.00	0.00
ATOM	1179	HG2	MET	75	38.167	51.820	14.615	0.00	0.00
ATOM	1180	HG3	MET	75	37.161	50.729	13.864	0.00	0.00
ATOM	1181	SD	MET	75	35.997	52.431	14.809	0.00	0.00
ATOM	1182	CE	MET	75	36.357	53.589	13.756	0.00	0.00
ATOM	1183	HE1	MET	75	36.483	53.785	13.507	0.00	0.00
ATOM	1184	HE2	MET	75	36.335	53.816	13.523	0.00	0.00
ATOM	1185	HE3	MET	75	36.474	53.871	13.600	0.00	0.00
ATOM	1186	C	MET	75	37.466	50.004	18.386	0.00	0.00
ATOM	1187	O	MET	75	36.391	49.628	18.818	0.00	0.00
ATOM	1188	N	GLY	76	38.608	49.670	18.969	0.00	0.00
ATOM	1189	H	GLY	76	39.445	49.992	18.548	0.00	0.00
ATOM	1190	CA	GLY	76	38.703	48.959	20.231	0.00	0.00
ATOM	1191	HA2	GLY	76	38.161	48.036	20.174	0.00	0.00
ATOM	1192	HA3	GLY	76	39.736	48.735	20.409	0.00	0.00
ATOM	1193	C	GLY	76	38.176	49.756	21.407	0.00	0.00
ATOM	1194	O	GLY	76	37.427	49.238	22.212	0.00	0.00
ATOM	1195	N	GLN	77	38.489	51.042	21.465	0.00	0.00
ATOM	1196	H	GLN	77	39.087	51.394	20.760	0.00	0.00
ATOM	1197	CA	GLN	77	38.019	51.959	22.500	0.00	0.00
ATOM	1198	HA	GLN	77	38.159	51.491	23.461	0.00	0.00
ATOM	1199	CB	GLN	77	38.856	53.227	22.461	0.00	0.00
ATOM	1200	HB2	GLN	77	38.889	53.601	21.589	0.00	0.00
ATOM	1201	HB3	GLN	77	38.480	53.905	23.010	0.00	0.00
ATOM	1202	CG	GLN	77	40.142	53.105	22.870	0.00	0.00
ATOM	1203	HG2	GLN	77	40.136	52.902	23.764	0.00	0.00
ATOM	1204	HG3	GLN	77	40.483	52.348	22.449	0.00	0.00
ATOM	1205	CD	GLN	77	41.012	54.260	22.657	0.00	0.00
ATOM	1206	OE1	GLN	77	40.874	55.155	22.344	0.00	0.00
ATOM	1207	NE2	GLN	77	41.933	54.289	22.812	0.00	0.00
ATOM	1208	1HE2	GLN	77	42.496	55.039	22.677	0.00	0.00
ATOM	1209	2HE2	GLN	77	42.069	53.566	23.060	0.00	0.00
ATOM	1210	C	GLN	77	36.530	52.265	22.376	0.00	0.00
ATOM	1211	O	GLN	77	35.841	52.325	23.375	0.00	0.00
ATOM	1212	N	VAL	78	36.000	52.358	21.158	0.00	0.00
ATOM	1213	H	VAL	78	36.621	52.356	20.384	0.00	0.00
ATOM	1214	CA	VAL	78	34.555	52.402	20.898	0.00	0.00
ATOM	1215	HA	VAL	78	34.126	53.206	21.476	0.00	0.00
ATOM	1216	CB	VAL	78	34.254	52.655	19.414	0.00	0.00
ATOM	1217	HB	VAL	78	34.798	51.946	18.827	0.00	0.00
ATOM	1218	CG1	VAL	78	32.789	52.523	19.050	0.00	0.00
ATOM	1219	1HG1	VAL	78	32.375	52.432	19.242	0.00	0.00
ATOM	1220	2HG1	VAL	78	32.412	52.772	18.840	0.00	0.00
ATOM	1221	3HG1	VAL	78	32.505	52.265	18.767	0.00	0.00
ATOM	1222	CG2	VAL	78	34.687	54.039	19.000	0.00	0.00
ATOM	1223	1HG2	VAL	78	34.740	54.396	18.964	0.00	0.00
ATOM	1224	2HG2	VAL	78	34.886	54.378	18.909	0.00	0.00
ATOM	1225	3HG2	VAL	78	34.770	54.349	18.814	0.00	0.00
ATOM	1226	C	VAL	78	33.896	51.117	21.379	0.00	0.00
ATOM	1227	O	VAL	78	32.930	51.187	22.113	0.00	0.00
ATOM	1228	N	GLY	79	34.440	49.948	21.055	0.00	0.00
ATOM	1229	H	GLY	79	35.226	49.949	20.447	0.00	0.00
ATOM	1230	CA	GLY	79	33.937	48.656	21.505	0.00	0.00
ATOM	1231	HA2	GLY	79	32.960	48.490	21.096	0.00	0.00
ATOM	1232	HA3	GLY	79	34.591	47.892	21.135	0.00	0.00
ATOM	1233	C	GLY	79	33.864	48.501	23.023	0.00	0.00
ATOM	1234	O	GLY	79	32.880	47.997	23.534	0.00	0.00
ATOM	1235	N	ARG	80	34.864	48.995	23.753	0.00	0.00
ATOM	1236	H	ARG	80	35.647	49.362	23.262	0.00	0.00
ATOM	1237	CA	ARG	80	34.919	49.007	25.222	0.00	0.00
ATOM	1238	HA	ARG	80	34.780	47.996	25.575	0.00	0.00
ATOM	1239	CB	ARG	80	36.305	49.500	25.662	0.00	0.00
ATOM	1240	HB2	ARG	80	37.036	48.955	25.156	0.00	0.00
ATOM	1241	HB3	ARG	80	36.424	50.498	25.380	0.00	0.00
ATOM	1242	CG	ARG	80	36.625	49.423	27.117	0.00	0.00
ATOM	1243	HG2	ARG	80	37.510	49.746	27.254	0.00	0.00
ATOM	1244	HG3	ARG	80	36.055	49.994	27.594	0.00	0.00
ATOM	1245	CD	ARG	80	36.573	48.168	27.752	0.00	0.00
ATOM	1246	HD2	ARG	80	35.727	47.991	27.925	0.00	0.00
ATOM	1247	HD3	ARG	80	36.828	47.607	27.132	0.00	0.00
ATOM	1248	NE	ARG	80	37.307	47.939	28.912	0.00	0.00
ATOM	1249	HE	ARG	80	38.124	48.400	28.945	0.00	0.00
ATOM	1250	CZ	ARG	80	37.088	47.126	29.901	0.00	0.00
ATOM	1251	NH1	ARG	80	37.934	46.943	30.786	0.00	0.00
ATOM	1252	1HH1	ARG	80	38.740	47.398	30.705	0.00	0.00
ATOM	1253	2HH1	ARG	80	37.784	46.306	31.522	0.00	0.00
ATOM	1254	NH2	ARG	80	36.056	46.483	30.060	0.00	0.00
ATOM	1255	1HH2	ARG	80	35.310	46.674	29.483	0.00	0.00
ATOM	1256	2HH2	ARG	80	35.976	45.896	30.854	0.00	0.00
ATOM	1257	C	ARG	80	33.799	49.831	25.843	0.00	0.00
ATOM	1258	O	ARG	80	33.218	49.410	26.812	0.00	0.00
ATOM	1259	N	GLN	81	33.471	50.966	25.258	0.00	0.00

ATOM	1260	H	GLN	81	34.003	51.231	24.465	0.00	0.00
ATOM	1261	CA	GLN	81	32.412	51.861	25.714	0.00	0.00
ATOM	1262	HA	GLN	81	32.395	51.875	26.792	0.00	0.00
ATOM	1263	CB	GLN	81	32.724	53.272	25.233	0.00	0.00
ATOM	1264	HB2	GLN	81	32.909	53.255	24.181	0.00	0.00
ATOM	1265	HB3	GLN	81	31.876	53.899	25.419	0.00	0.00
ATOM	1266	CG	GLN	81	33.925	53.875	25.936	0.00	0.00
ATOM	1267	HG2	GLN	81	33.677	54.053	26.943	0.00	0.00
ATOM	1268	HG3	GLN	81	34.743	53.211	25.921	0.00	0.00
ATOM	1269	CD	GLN	81	34.375	55.152	25.325	0.00	0.00
ATOM	1270	OE1	GLN	81	33.990	56.027	25.287	0.00	0.00
ATOM	1271	NE2	GLN	81	35.192	55.312	24.825	0.00	0.00
ATOM	1272	1HE2	GLN	81	35.479	56.141	24.412	0.00	0.00
ATOM	1273	2HE2	GLN	81	35.524	54.607	24.853	0.00	0.00
ATOM	1274	C	GLN	81	31.022	51.424	25.256	0.00	0.00
ATOM	1275	O	GLN	81	30.070	51.531	26.001	0.00	0.00
ATOM	1276	N	LEU	82	30.900	50.867	24.064	0.00	0.00
ATOM	1277	H	LEU	82	31.701	50.862	23.475	0.00	0.00
ATOM	1278	CA	LEU	82	29.668	50.308	23.512	0.00	0.00
ATOM	1279	HA	LEU	82	28.895	51.054	23.607	0.00	0.00
ATOM	1280	CB	LEU	82	29.906	50.030	22.023	0.00	0.00
ATOM	1281	HB2	LEU	82	30.332	50.905	21.577	0.00	0.00
ATOM	1282	HB3	LEU	82	30.639	49.254	21.940	0.00	0.00
ATOM	1283	CG	LEU	82	28.692	49.632	21.195	0.00	0.00
ATOM	1284	HG	LEU	82	28.248	48.768	21.622	0.00	0.00
ATOM	1285	CD1	LEU	82	27.659	50.711	21.126	0.00	0.00
ATOM	1286	1HD1	LEU	82	27.439	51.020	20.978	0.00	0.00
ATOM	1287	2HD1	LEU	82	27.306	50.872	21.122	0.00	0.00
ATOM	1288	3HD1	LEU	82	27.455	51.023	21.226	0.00	0.00
ATOM	1289	CD2	LEU	82	29.123	49.303	19.791	0.00	0.00
ATOM	1290	1HD2	LEU	82	29.197	49.339	19.419	0.00	0.00
ATOM	1291	2HD2	LEU	82	29.136	49.133	19.459	0.00	0.00
ATOM	1292	3HD2	LEU	82	29.341	49.193	19.476	0.00	0.00
ATOM	1293	C	LEU	82	29.199	49.067	24.282	0.00	0.00
ATOM	1294	O	LEU	82	28.012	48.824	24.399	0.00	0.00
ATOM	1295	N	ALA	83	30.114	48.313	24.878	0.00	0.00
ATOM	1296	H	ALA	83	31.073	48.515	24.709	0.00	0.00
ATOM	1297	CA	ALA	83	29.797	47.191	25.756	0.00	0.00
ATOM	1298	HA	ALA	83	29.145	46.517	25.229	0.00	0.00
ATOM	1299	CB	ALA	83	31.082	46.446	26.059	0.00	0.00
ATOM	1300	HB1	ALA	83	31.595	46.371	25.552	0.00	0.00
ATOM	1301	HB2	ALA	83	31.517	46.666	26.597	0.00	0.00
ATOM	1302	HB3	ALA	83	31.052	45.745	26.259	0.00	0.00
ATOM	1303	C	ALA	83	29.050	47.594	27.038	0.00	0.00
ATOM	1304	O	ALA	83	28.353	46.775	27.603	0.00	0.00
ATOM	1305	N	ILE	84	29.126	48.839	27.478	0.00	0.00
ATOM	1306	H	ILE	84	29.707	49.467	26.980	0.00	0.00
ATOM	1307	CA	ILE	84	28.440	49.330	28.680	0.00	0.00
ATOM	1308	HA	ILE	84	28.498	48.567	29.440	0.00	0.00
ATOM	1309	CB	ILE	84	29.135	50.583	29.232	0.00	0.00
ATOM	1310	HB	ILE	84	29.057	51.353	28.502	0.00	0.00
ATOM	1311	CG2	ILE	84	28.448	51.072	30.485	0.00	0.00
ATOM	1312	1HG2	ILE	84	28.119	51.069	30.726	0.00	0.00
ATOM	1313	2HG2	ILE	84	28.425	51.125	30.913	0.00	0.00
ATOM	1314	3HG2	ILE	84	28.288	51.402	30.737	0.00	0.00
ATOM	1315	CG1	ILE	84	30.607	50.342	29.509	0.00	0.00
ATOM	1316	2HG1	ILE	84	30.706	49.657	30.276	0.00	0.00
ATOM	1317	3HG1	ILE	84	31.046	49.932	28.667	0.00	0.00
ATOM	1318	CD1	ILE	84	31.416	51.541	29.857	0.00	0.00
ATOM	1319	1HD1	ILE	84	31.653	51.783	30.040	0.00	0.00
ATOM	1320	2HD1	ILE	84	31.684	51.806	29.850	0.00	0.00
ATOM	1321	3HD1	ILE	84	31.517	51.886	29.928	0.00	0.00
ATOM	1322	C	ILE	84	26.950	49.549	28.407	0.00	0.00
ATOM	1323	O	ILE	84	26.126	49.065	29.153	0.00	0.00
ATOM	1324	N	ILE	85	26.576	50.194	27.309	0.00	0.00
ATOM	1325	H	ILE	85	27.277	50.599	26.746	0.00	0.00
ATOM	1326	CA	ILE	85	25.178	50.270	26.868	0.00	0.00
ATOM	1327	HA	ILE	85	24.586	50.513	27.737	0.00	0.00
ATOM	1328	CB	ILE	85	24.968	51.424	25.875	0.00	0.00
ATOM	1329	HB	ILE	85	25.358	52.307	26.334	0.00	0.00
ATOM	1330	CG2	ILE	85	25.726	51.249	24.575	0.00	0.00
ATOM	1331	1HG2	ILE	85	25.989	51.058	24.323	0.00	0.00
ATOM	1332	2HG2	ILE	85	26.017	51.377	24.275	0.00	0.00
ATOM	1333	3HG2	ILE	85	25.749	51.217	24.182	0.00	0.00
ATOM	1334	CG1	ILE	85	23.496	51.690	25.594	0.00	0.00
ATOM	1335	2HG1	ILE	85	23.279	51.611	24.965	0.00	0.00
ATOM	1336	3HG1	ILE	85	23.010	51.311	25.900	0.00	0.00
ATOM	1337	CD1	ILE	85	22.925	52.592	25.739	0.00	0.00
ATOM	1338	1HD1	ILE	85	22.528	52.796	25.450	0.00	0.00
ATOM	1339	2HD1	ILE	85	22.672	52.577	26.010	0.00	0.00
ATOM	1340	3HD1	ILE	85	23.144	53.063	25.856	0.00	0.00
ATOM	1341	C	ILE	85	24.663	48.917	26.375	0.00	0.00
ATOM	1342	O	ILE	85	23.513	48.579	26.586	0.00	0.00
ATOM	1343	N	GLY	86	25.544	48.077	25.847	0.00	0.00
ATOM	1344	H	GLY	86	26.457	48.424	25.668	0.00	0.00
ATOM	1345	CA	GLY	86	25.294	46.675	25.557	0.00	0.00
ATOM	1346	HA2	GLY	86	24.436	46.599	24.926	0.00	0.00
ATOM	1347	HA3	GLY	86	26.139	46.293	25.039	0.00	0.00
ATOM	1348	C	GLY	86	25.045	45.790	26.763	0.00	0.00
ATOM	1349	O	GLY	86	24.724	44.656	26.586	0.00	0.00
ATOM	1350	N	ASP	87	25.170	46.290	27.971	0.00	0.00
ATOM	1351	H	ASP	87	25.523	47.197	28.037	0.00	0.00
ATOM	1352	CA	ASP	87	24.768	45.657	29.218	0.00	0.00
ATOM	1353	HA	ASP	87	24.583	44.621	29.036	0.00	0.00
ATOM	1354	CB	ASP	87	25.905	45.746	30.197	0.00	0.00
ATOM	1355	HB2	ASP	87	26.764	45.325	29.748	0.00	0.00
ATOM	1356	HB3	ASP	87	26.122	46.760	30.395	0.00	0.00
ATOM	1357	CG	ASP	87	25.646	45.043	31.498	0.00	0.00
ATOM	1358	OD1	ASP	87	25.554	45.163	32.266	0.00	0.00
ATOM	1359	OD2	ASP	87	25.586	44.371	31.769	0.00	0.00
ATOM	1360	C	ASP	87	23.483	46.225	29.801	0.00	0.00
ATOM	1361	O	ASP	87	22.823	45.581	30.581	0.00	0.00
ATOM	1362	N	ASP	88	23.054	47.397	29.393	0.00	0.00
ATOM	1363	H	ASP	88	23.601	47.898	28.743	0.00	0.00
ATOM	1364	CA	ASP	88	21.783	47.971	29.826	0.00	0.00

ATOM	1365	HA	ASP	88	21.732	47.881	30.894	0.00	0.00
ATOM	1366	CB	ASP	88	21.752	49.452	29.483	0.00	0.00
ATOM	1367	HB2	ASP	88	22.704	49.875	29.686	0.00	0.00
ATOM	1368	HB3	ASP	88	21.541	49.568	28.449	0.00	0.00
ATOM	1369	CG	ASP	88	20.741	50.222	30.284	0.00	0.00
ATOM	1370	OD1	ASP	88	20.545	50.646	30.695	0.00	0.00
ATOM	1371	OD2	ASP	88	20.171	50.446	30.534	0.00	0.00
ATOM	1372	C	ASP	88	20.578	47.209	29.263	0.00	0.00
ATOM	1373	O	ASP	88	19.560	47.108	29.890	0.00	0.00
ATOM	1374	N	ILE	89	20.736	46.584	28.121	0.00	0.00
ATOM	1375	H	ILE	89	21.582	46.764	27.651	0.00	0.00
ATOM	1376	CA	ILE	89	19.783	45.651	27.511	0.00	0.00
ATOM	1377	HA	ILE	89	18.797	46.044	27.666	0.00	0.00
ATOM	1378	CB	ILE	89	20.007	45.556	26.006	0.00	0.00
ATOM	1379	HB	ILE	89	19.323	44.831	25.626	0.00	0.00
ATOM	1380	CG2	ILE	89	19.669	46.851	25.327	0.00	0.00
ATOM	1381	1HG2	ILE	89	19.536	46.871	24.664	0.00	0.00
ATOM	1382	2HG2	ILE	89	19.118	47.217	25.500	0.00	0.00
ATOM	1383	3HG2	ILE	89	20.076	47.414	25.322	0.00	0.00
ATOM	1384	CG1	ILE	89	21.398	45.106	25.648	0.00	0.00
ATOM	1385	2HG1	ILE	89	21.935	45.615	25.856	0.00	0.00
ATOM	1386	3HG1	ILE	89	21.600	44.462	26.008	0.00	0.00
ATOM	1387	CD1	ILE	89	21.843	44.802	24.528	0.00	0.00
ATOM	1388	1HD1	ILE	89	21.930	44.944	24.237	0.00	0.00
ATOM	1389	2HD1	ILE	89	22.211	44.588	24.259	0.00	0.00
ATOM	1390	3HD1	ILE	89	21.739	44.636	24.290	0.00	0.00
ATOM	1391	C	ILE	89	19.764	44.261	28.145	0.00	0.00
ATOM	1392	O	ILE	89	18.950	43.438	27.780	0.00	0.00
ATOM	1393	N	ASN	90	20.632	43.975	29.114	0.00	0.00
ATOM	1394	H	ASN	90	21.277	44.678	29.386	0.00	0.00
ATOM	1395	CA	ASN	90	20.682	42.707	29.829	0.00	0.00
ATOM	1396	HA	ASN	90	20.671	41.922	29.106	0.00	0.00
ATOM	1397	CB	ASN	90	21.997	42.627	30.585	0.00	0.00
ATOM	1398	HB2	ASN	90	22.779	42.927	29.939	0.00	0.00
ATOM	1399	HB3	ASN	90	21.988	43.288	31.414	0.00	0.00
ATOM	1400	CG	ASN	90	22.345	41.284	31.098	0.00	0.00
ATOM	1401	OD1	ASN	90	21.812	40.387	30.962	0.00	0.00
ATOM	1402	ND2	ASN	90	23.274	41.116	31.688	0.00	0.00
ATOM	1403	1HD2	ASN	90	23.531	40.246	32.024	0.00	0.00
ATOM	1404	2HD2	ASN	90	23.721	41.855	31.786	0.00	0.00
ATOM	1405	C	ASN	90	19.471	42.490	30.722	0.00	0.00
ATOM	1406	O	ASN	90	19.127	41.423	30.990	0.00	0.00
ATOM	1407	N	ARG	91	18.785	43.504	31.132	0.00	0.00
ATOM	1408	H	ARG	91	19.128	44.335	30.852	0.00	0.00
ATOM	1409	CA	ARG	91	17.461	43.464	31.733	0.00	0.00
ATOM	1410	HA	ARG	91	17.329	42.527	32.222	0.00	0.00
ATOM	1411	CB	ARG	91	17.322	44.556	32.762	0.00	0.00
ATOM	1412	HB2	ARG	91	17.442	45.483	32.300	0.00	0.00
ATOM	1413	HB3	ARG	91	16.343	44.527	33.152	0.00	0.00
ATOM	1414	CG	ARG	91	18.301	44.449	33.877	0.00	0.00
ATOM	1415	HG2	ARG	91	18.179	43.522	34.313	0.00	0.00
ATOM	1416	HG3	ARG	91	19.265	44.504	33.499	0.00	0.00
ATOM	1417	CD	ARG	91	18.133	45.492	34.935	0.00	0.00
ATOM	1418	HD2	ARG	91	17.251	45.426	35.347	0.00	0.00
ATOM	1419	HD3	ARG	91	18.778	45.359	35.659	0.00	0.00
ATOM	1420	NE	ARG	91	18.274	46.730	34.501	0.00	0.00
ATOM	1421	HE	ARG	91	17.953	47.059	34.142	0.00	0.00
ATOM	1422	CZ	ARG	91	18.769	47.447	34.516	0.00	0.00
ATOM	1423	NH1	ARG	91	19.241	47.171	34.968	0.00	0.00
ATOM	1424	1HH1	ARG	91	19.249	46.399	35.337	0.00	0.00
ATOM	1425	2HH1	ARG	91	19.593	47.752	34.941	0.00	0.00
ATOM	1426	NH2	ARG	91	18.805	48.477	34.056	0.00	0.00
ATOM	1427	1HH2	ARG	91	18.458	48.737	33.684	0.00	0.00
ATOM	1428	2HH2	ARG	91	19.185	48.977	34.027	0.00	0.00
ATOM	1429	C	ARG	91	16.387	43.575	30.666	0.00	0.00
ATOM	1430	O	ARG	91	16.521	44.375	29.761	0.00	0.00
ATOM	1431	N	ARG	92	15.320	42.801	30.783	0.00	0.00
ATOM	1432	H	ARG	92	15.305	42.224	31.582	0.00	0.00
ATOM	1433	CA	ARG	92	14.218	42.617	29.832	0.00	0.00
ATOM	1434	HA	ARG	92	13.590	41.847	30.244	0.00	0.00
ATOM	1435	CB	ARG	92	13.355	43.877	29.762	0.00	0.00
ATOM	1436	HB2	ARG	92	13.024	44.123	30.739	0.00	0.00
ATOM	1437	HB3	ARG	92	13.935	44.690	29.394	0.00	0.00
ATOM	1438	CG	ARG	92	12.139	43.731	28.874	0.00	0.00
ATOM	1439	HG2	ARG	92	12.433	43.482	27.924	0.00	0.00
ATOM	1440	HG3	ARG	92	11.532	42.982	29.239	0.00	0.00
ATOM	1441	CD	ARG	92	11.331	44.964	28.759	0.00	0.00
ATOM	1442	HD2	ARG	92	10.919	45.164	29.681	0.00	0.00
ATOM	1443	HD3	ARG	92	11.962	45.743	28.515	0.00	0.00
ATOM	1444	NE	ARG	92	10.289	44.838	27.762	0.00	0.00
ATOM	1445	HE	ARG	92	10.006	43.954	27.543	0.00	0.00
ATOM	1446	CZ	ARG	92	9.703	45.755	27.077	0.00	0.00
ATOM	1447	NH1	ARG	92	9.901	46.961	27.242	0.00	0.00
ATOM	1448	1HH1	ARG	92	10.501	47.246	27.936	0.00	0.00
ATOM	1449	2HH1	ARG	92	9.409	47.587	26.676	0.00	0.00
ATOM	1450	NH2	ARG	92	8.870	45.483	26.172	0.00	0.00
ATOM	1451	1HH2	ARG	92	8.669	44.573	25.994	0.00	0.00
ATOM	1452	2HH2	ARG	92	8.450	46.208	25.663	0.00	0.00
ATOM	1453	C	ARG	92	14.605	42.089	28.457	0.00	0.00
ATOM	1454	O	ARG	92	14.080	41.091	28.049	0.00	0.00
ATOM	1455	N	TYR	93	15.449	42.760	27.718	0.00	0.00
ATOM	1456	H	TYR	93	15.876	43.542	28.132	0.00	0.00
ATOM	1457	CA	TYR	93	15.578	42.587	26.277	0.00	0.00
ATOM	1458	HA	TYR	93	14.594	42.409	25.871	0.00	0.00
ATOM	1459	CB	TYR	93	16.092	43.875	25.650	0.00	0.00
ATOM	1460	HB2	TYR	93	17.105	44.030	25.970	0.00	0.00
ATOM	1461	HB3	TYR	93	16.110	43.754	24.583	0.00	0.00
ATOM	1462	CG	TYR	93	15.256	45.094	25.983	0.00	0.00
ATOM	1463	CD1	TYR	93	14.067	45.330	25.331	0.00	0.00
ATOM	1464	HD1	TYR	93	13.766	44.664	24.586	0.00	0.00
ATOM	1465	CE1	TYR	93	13.272	46.434	25.643	0.00	0.00
ATOM	1466	HE1	TYR	93	12.371	46.629	25.136	0.00	0.00
ATOM	1467	CZ	TYR	93	13.659	47.310	26.626	0.00	0.00
ATOM	1468	OH	TYR	93	12.879	48.355	26.940	0.00	0.00
ATOM	1469	HH	TYR	93	13.202	48.837	27.647	0.00	0.00

ATOM	1470	CE2	TYR	93	14.852	47.076	27.284	0.00	0.00
ATOM	1471	HE2	TYR	93	15.158	47.742	28.035	0.00	0.00
ATOM	1472	CD2	TYR	93	15.650	45.978	26.958	0.00	0.00
ATOM	1473	HD2	TYR	93	16.559	45.810	27.464	0.00	0.00
ATOM	1474	C	TYR	93	16.408	41.363	25.884	0.00	0.00
ATOM	1475	O	TYR	93	15.999	40.608	25.022	0.00	0.00
ATOM	1476	N	ASP	94	17.507	41.095	26.570	0.00	0.00
ATOM	1477	H	ASP	94	17.820	41.764	27.239	0.00	0.00
ATOM	1478	CA	ASP	94	18.306	39.886	26.364	0.00	0.00
ATOM	1479	HA	ASP	94	18.527	39.809	25.313	0.00	0.00
ATOM	1480	CB	ASP	94	19.632	40.021	27.089	0.00	0.00
ATOM	1481	HB2	ASP	94	20.147	40.880	26.710	0.00	0.00
ATOM	1482	HB3	ASP	94	19.441	40.179	28.132	0.00	0.00
ATOM	1483	CG	ASP	94	20.518	38.806	26.921	0.00	0.00
ATOM	1484	OD1	ASP	94	21.124	38.610	25.884	0.00	0.00
ATOM	1485	OD2	ASP	94	20.659	38.064	27.850	0.00	0.00
ATOM	1486	C	ASP	94	17.561	38.605	26.742	0.00	0.00
ATOM	1487	O	ASP	94	17.763	37.584	26.119	0.00	0.00
ATOM	1488	N	SER	95	16.635	38.657	27.687	0.00	0.00
ATOM	1489	H	SER	95	16.527	39.502	28.187	0.00	0.00
ATOM	1490	CA	SER	95	15.731	37.548	27.996	0.00	0.00
ATOM	1491	HA	SER	95	16.318	36.664	28.163	0.00	0.00
ATOM	1492	CB	SER	95	14.941	37.821	29.258	0.00	0.00
ATOM	1493	HB2	SER	95	14.351	38.615	29.142	0.00	0.00
ATOM	1494	HB3	SER	95	14.338	37.047	29.485	0.00	0.00
ATOM	1495	DG	SER	95	15.706	38.034	30.285	0.00	0.00
ATOM	1496	HG	SER	95	15.882	38.044	30.572	0.00	0.00
ATOM	1497	C	SER	95	14.777	37.230	26.854	0.00	0.00
ATOM	1498	O	SER	95	14.385	36.110	26.701	0.00	0.00
ATOM	1499	N	GLU	96	14.448	38.179	26.006	0.00	0.00
ATOM	1500	H	GLU	96	14.813	39.078	26.173	0.00	0.00
ATOM	1501	CA	GLU	96	13.681	37.969	24.785	0.00	0.00
ATOM	1502	HA	GLU	96	12.947	37.210	24.987	0.00	0.00
ATOM	1503	CB	GLU	96	12.957	39.256	24.399	0.00	0.00
ATOM	1504	HB2	GLU	96	12.889	39.893	25.231	0.00	0.00
ATOM	1505	HB3	GLU	96	13.509	39.761	23.659	0.00	0.00
ATOM	1506	CG	GLU	96	11.575	39.040	23.865	0.00	0.00
ATOM	1507	HG2	GLU	96	11.238	39.942	23.410	0.00	0.00
ATOM	1508	HG3	GLU	96	11.606	38.299	23.116	0.00	0.00
ATOM	1509	CD	GLU	96	10.625	38.644	24.940	0.00	0.00
ATOM	1510	OE1	GLU	96	10.227	38.401	25.351	0.00	0.00
ATOM	1511	OE2	GLU	96	10.279	38.587	25.407	0.00	0.00
ATOM	1512	C	GLU	96	14.553	37.444	23.642	0.00	0.00
ATOM	1513	O	GLU	96	14.140	36.538	22.938	0.00	0.00
ATOM	1514	N	PHE	97	15.794	37.913	23.498	0.00	0.00
ATOM	1515	H	PHE	97	16.078	38.679	24.066	0.00	0.00
ATOM	1516	CA	PHE	97	16.765	37.352	22.555	0.00	0.00
ATOM	1517	HA	PHE	97	16.335	37.369	21.564	0.00	0.00
ATOM	1518	CB	PHE	97	18.046	38.194	22.534	0.00	0.00
ATOM	1519	HB2	PHE	97	18.532	38.079	23.486	0.00	0.00
ATOM	1520	HB3	PHE	97	18.712	37.769	21.804	0.00	0.00
ATOM	1521	CG	PHE	97	17.927	39.667	22.223	0.00	0.00
ATOM	1522	CD1	PHE	97	16.949	40.163	21.377	0.00	0.00
ATOM	1523	HD1	PHE	97	16.276	39.497	20.911	0.00	0.00
ATOM	1524	CE1	PHE	97	16.854	41.526	21.128	0.00	0.00
ATOM	1525	HE1	PHE	97	16.115	41.893	20.471	0.00	0.00
ATOM	1526	CZ	PHE	97	17.723	42.411	21.733	0.00	0.00
ATOM	1527	HZ	PHE	97	17.628	43.458	21.559	0.00	0.00
ATOM	1528	CE2	PHE	97	18.709	41.927	22.568	0.00	0.00
ATOM	1529	HE2	PHE	97	19.370	42.604	23.034	0.00	0.00
ATOM	1530	CD2	PHE	97	18.822	40.561	22.795	0.00	0.00
ATOM	1531	HD2	PHE	97	19.595	40.198	23.420	0.00	0.00
ATOM	1532	C	PHE	97	17.097	35.883	22.864	0.00	0.00
ATOM	1533	O	PHE	97	17.339	35.112	21.960	0.00	0.00
ATOM	1534	N	GLN	98	17.055	35.466	24.124	0.00	0.00
ATOM	1535	H	GLN	98	16.933	36.154	24.828	0.00	0.00
ATOM	1536	CA	GLN	98	17.147	34.060	24.522	0.00	0.00
ATOM	1537	HA	GLN	98	18.005	33.613	24.043	0.00	0.00
ATOM	1538	CB	GLN	98	17.340	33.961	26.032	0.00	0.00
ATOM	1539	HB2	GLN	98	16.613	34.575	26.523	0.00	0.00
ATOM	1540	HB3	GLN	98	17.178	32.945	26.337	0.00	0.00
ATOM	1541	CG	GLN	98	18.723	34.378	26.489	0.00	0.00
ATOM	1542	HG2	GLN	98	19.427	33.655	26.150	0.00	0.00
ATOM	1543	HG3	GLN	98	18.988	35.324	26.063	0.00	0.00
ATOM	1544	CD	GLN	98	18.832	34.465	27.984	0.00	0.00
ATOM	1545	OE1	GLN	98	18.630	33.567	28.668	0.00	0.00
ATOM	1546	NE2	GLN	98	19.142	35.533	28.547	0.00	0.00
ATOM	1547	1HE2	GLN	98	19.194	35.583	29.516	0.00	0.00
ATOM	1548	2HE2	GLN	98	19.321	36.302	28.004	0.00	0.00
ATOM	1549	C	GLN	98	15.927	33.252	24.064	0.00	0.00
ATOM	1550	O	GLN	98	16.087	32.160	23.547	0.00	0.00
ATOM	1551	N	THR	99	14.721	33.800	24.159	0.00	0.00
ATOM	1552	H	THR	99	14.645	34.683	24.601	0.00	0.00
ATOM	1553	CA	THR	99	13.485	33.173	23.670	0.00	0.00
ATOM	1554	HA	THR	99	13.409	32.192	24.111	0.00	0.00
ATOM	1555	CB	THR	99	12.252	33.970	24.089	0.00	0.00
ATOM	1556	HB	THR	99	12.230	34.897	23.572	0.00	0.00
ATOM	1557	CG2	THR	99	10.947	33.258	23.842	0.00	0.00
ATOM	1558	1HG2	THR	99	10.599	33.123	23.843	0.00	0.00
ATOM	1559	2HG2	THR	99	10.636	33.130	23.715	0.00	0.00
ATOM	1560	3HG2	THR	99	10.647	33.012	23.780	0.00	0.00
ATOM	1561	OG1	THR	99	12.282	34.234	25.438	0.00	0.00
ATOM	1562	HG1	THR	99	11.982	34.780	25.596	0.00	0.00
ATOM	1563	C	THR	99	13.493	32.988	22.153	0.00	0.00
ATOM	1564	O	THR	99	12.991	31.999	21.655	0.00	0.00
ATOM	1565	N	MET	100	14.127	33.880	21.410	0.00	0.00
ATOM	1566	H	MET	100	14.487	34.684	21.872	0.00	0.00
ATOM	1567	CA	MET	100	14.286	33.779	19.957	0.00	0.00
ATOM	1568	HA	MET	100	13.322	33.562	19.524	0.00	0.00
ATOM	1569	CB	MET	100	14.757	35.119	19.390	0.00	0.00
ATOM	1570	HB2	MET	100	15.655	35.415	19.886	0.00	0.00
ATOM	1571	HB3	MET	100	14.975	35.015	18.350	0.00	0.00
ATOM	1572	CG	MET	100	13.727	36.212	19.545	0.00	0.00
ATOM	1573	HG2	MET	100	12.917	35.996	18.907	0.00	0.00
ATOM	1574	HG3	MET	100	13.375	36.209	20.544	0.00	0.00

ATOM	1575	SD	MET	100	14.288	37.860	19.183	0.00	0.00
ATOM	1576	CE	MET	100	13.098	38.811	20.045	0.00	0.00
ATOM	1577	HE1	MET	100	12.866	39.008	20.224	0.00	0.00
ATOM	1578	HE2	MET	100	12.863	39.009	20.214	0.00	0.00
ATOM	1579	HE3	MET	100	12.844	39.007	20.216	0.00	0.00
ATOM	1580	C	MET	100	15.223	32.648	19.518	0.00	0.00
ATOM	1581	O	MET	100	15.130	32.208	18.410	0.00	0.00
ATOM	1582	N	LEU	101	16.103	32.158	20.365	0.00	0.00
ATOM	1583	H	LEU	101	16.132	32.574	21.252	0.00	0.00
ATOM	1584	CA	LEU	101	17.118	31.159	20.030	0.00	0.00
ATOM	1585	HA	LEU	101	17.043	30.922	18.980	0.00	0.00
ATOM	1586	CB	LEU	101	18.503	31.755	20.261	0.00	0.00
ATOM	1587	HB2	LEU	101	18.583	31.982	21.301	0.00	0.00
ATOM	1588	HB3	LEU	101	19.232	31.003	20.034	0.00	0.00
ATOM	1589	CG	LEU	101	18.858	33.010	19.469	0.00	0.00
ATOM	1590	HG	LEU	101	18.152	33.772	19.681	0.00	0.00
ATOM	1591	CD1	LEU	101	20.201	33.503	19.890	0.00	0.00
ATOM	1592	1HD1	LEU	101	20.501	34.117	19.599	0.00	0.00
ATOM	1593	2HD1	LEU	101	20.786	33.080	19.822	0.00	0.00
ATOM	1594	3HD1	LEU	101	20.279	33.682	20.566	0.00	0.00
ATOM	1595	CD2	LEU	101	18.903	32.799	17.995	0.00	0.00
ATOM	1596	1HD2	LEU	101	18.124	32.656	17.619	0.00	0.00
ATOM	1597	2HD2	LEU	101	19.217	33.483	17.548	0.00	0.00
ATOM	1598	3HD2	LEU	101	19.382	32.126	17.746	0.00	0.00
ATOM	1599	C	LEU	101	16.955	29.807	20.740	0.00	0.00
ATOM	1600	O	LEU	101	17.690	28.891	20.473	0.00	0.00
ATOM	1601	N	GLN	102	16.002	29.651	21.617	0.00	0.00
ATOM	1602	H	GLN	102	15.436	30.428	21.796	0.00	0.00
ATOM	1603	CA	GLN	102	15.874	28.471	22.464	0.00	0.00
ATOM	1604	HA	GLN	102	16.855	28.253	22.835	0.00	0.00
ATOM	1605	CB	GLN	102	15.013	28.784	23.677	0.00	0.00
ATOM	1606	HB2	GLN	102	15.116	27.989	24.372	0.00	0.00
ATOM	1607	HB3	GLN	102	15.382	29.664	24.139	0.00	0.00
ATOM	1608	CG	GLN	102	13.545	28.956	23.402	0.00	0.00
ATOM	1609	HG2	GLN	102	13.421	29.688	22.669	0.00	0.00
ATOM	1610	HG3	GLN	102	13.153	28.062	23.036	0.00	0.00
ATOM	1611	CD	GLN	102	12.731	29.335	24.590	0.00	0.00
ATOM	1612	OE1	GLN	102	13.131	29.715	25.561	0.00	0.00
ATOM	1613	NE2	GLN	102	11.558	29.246	24.555	0.00	0.00
ATOM	1614	1HE2	GLN	102	11.031	29.481	25.333	0.00	0.00
ATOM	1615	2HE2	GLN	102	11.205	28.897	23.779	0.00	0.00
ATOM	1616	C	GLN	102	15.404	27.194	21.768	0.00	0.00
ATOM	1617	O	GLN	102	15.602	26.143	22.266	0.00	0.00
ATOM	1618	N	HIP	103	14.798	27.253	20.623	0.00	0.00
ATOM	1619	H	HIP	103	14.673	28.142	20.260	0.00	0.00
ATOM	1620	CA	HIP	103	14.232	26.117	19.899	0.00	0.00
ATOM	1621	HA	HIP	103	14.334	25.252	20.498	0.00	0.00
ATOM	1622	CB	HIP	103	12.759	26.354	19.716	0.00	0.00
ATOM	1623	HB2	HIP	103	12.371	26.747	20.614	0.00	0.00
ATOM	1624	HB3	HIP	103	12.622	27.077	18.973	0.00	0.00
ATOM	1625	CG	HIP	103	11.969	25.167	19.358	0.00	0.00
ATOM	1626	ND1	HIP	103	11.676	24.197	20.044	0.00	0.00
ATOM	1627	HD1	HIP	103	11.932	24.169	20.867	0.00	0.00
ATOM	1628	CE1	HIP	103	10.960	23.325	19.425	0.00	0.00
ATOM	1629	HE1	HIP	103	10.579	22.469	19.720	0.00	0.00
ATOM	1630	NE2	HIP	103	10.787	23.706	18.368	0.00	0.00
ATOM	1631	HE2	HIP	103	10.287	23.237	17.730	0.00	0.00
ATOM	1632	CD2	HIP	103	11.414	24.860	18.308	0.00	0.00
ATOM	1633	HD2	HIP	103	11.453	25.418	17.581	0.00	0.00
ATOM	1634	C	HIP	103	14.967	25.789	18.618	0.00	0.00
ATOM	1635	O	HIP	103	14.440	25.392	17.725	0.00	0.00
ATOM	1636	N	LEU	104	16.185	25.985	18.515	0.00	0.00
ATOM	1637	H	LEU	104	16.544	26.295	19.292	0.00	0.00
ATOM	1638	CA	LEU	104	17.054	25.744	17.371	0.00	0.00
ATOM	1639	HA	LEU	104	16.456	25.614	16.491	0.00	0.00
ATOM	1640	CB	LEU	104	17.961	26.949	17.163	0.00	0.00
ATOM	1641	HB2	LEU	104	18.538	27.080	18.048	0.00	0.00
ATOM	1642	HB3	LEU	104	18.641	26.732	16.365	0.00	0.00
ATOM	1643	CG	LEU	104	17.266	28.270	16.857	0.00	0.00
ATOM	1644	HG	LEU	104	16.608	28.534	17.651	0.00	0.00
ATOM	1645	CD1	LEU	104	18.290	29.350	16.749	0.00	0.00
ATOM	1646	1HD1	LEU	104	18.721	29.395	17.185	0.00	0.00
ATOM	1647	2HD1	LEU	104	18.707	29.401	16.256	0.00	0.00
ATOM	1648	3HD1	LEU	104	18.181	30.018	16.736	0.00	0.00
ATOM	1649	CD2	LEU	104	16.500	28.246	15.586	0.00	0.00
ATOM	1650	1HD2	LEU	104	16.432	27.816	15.179	0.00	0.00
ATOM	1651	2HD2	LEU	104	15.932	28.312	15.539	0.00	0.00
ATOM	1652	3HD2	LEU	104	16.551	28.594	15.127	0.00	0.00
ATOM	1653	C	LEU	104	17.882	24.472	17.527	0.00	0.00
ATOM	1654	O	LEU	104	18.127	24.019	18.624	0.00	0.00
ATOM	1655	N	GLN	105	18.380	23.934	16.433	0.00	0.00
ATOM	1656	H	GLN	105	18.176	24.385	15.576	0.00	0.00
ATOM	1657	CA	GLN	105	19.405	22.892	16.419	0.00	0.00
ATOM	1658	HA	GLN	105	19.111	22.120	17.106	0.00	0.00
ATOM	1659	CB	GLN	105	19.505	22.292	15.027	0.00	0.00
ATOM	1660	HB2	GLN	105	19.767	23.063	14.344	0.00	0.00
ATOM	1661	HB3	GLN	105	20.297	21.575	15.001	0.00	0.00
ATOM	1662	CG	GLN	105	18.248	21.627	14.528	0.00	0.00
ATOM	1663	HG2	GLN	105	17.485	22.211	14.594	0.00	0.00
ATOM	1664	HG3	GLN	105	18.332	21.414	13.592	0.00	0.00
ATOM	1665	CD	GLN	105	17.905	20.454	15.127	0.00	0.00
ATOM	1666	OE1	GLN	105	18.470	19.943	15.728	0.00	0.00
ATOM	1667	NE2	GLN	105	16.980	19.972	14.995	0.00	0.00
ATOM	1668	1HE2	GLN	105	16.761	19.206	15.390	0.00	0.00
ATOM	1669	2HE2	GLN	105	16.495	20.370	14.514	0.00	0.00
ATOM	1670	C	GLN	105	20.761	23.441	16.872	0.00	0.00
ATOM	1671	O	GLN	105	20.956	24.640	16.824	0.00	0.00
ATOM	1672	N	PRO	106	21.730	22.622	17.295	0.00	0.00
ATOM	1673	CD	PRO	106	21.617	21.204	17.493	0.00	0.00
ATOM	1674	HD2	PRO	106	21.664	20.699	16.596	0.00	0.00
ATOM	1675	HD3	PRO	106	20.743	20.952	17.984	0.00	0.00
ATOM	1676	CG	PRO	106	22.757	20.805	18.314	0.00	0.00
ATOM	1677	HG2	PRO	106	23.175	20.090	17.946	0.00	0.00
ATOM	1678	HG3	PRO	106	22.478	20.605	19.152	0.00	0.00
ATOM	1679	CB	PRO	106	23.655	21.857	18.417	0.00	0.00

ATOM	1680	HB2	PRO	106	23.865	21.972	19.335	0.00	0.00
ATOM	1681	HB3	PRO	106	24.445	21.618	17.946	0.00	0.00
ATOM	1682	CA	PRO	106	23.007	23.083	17.831	0.00	0.00
ATOM	1683	HA	PRO	106	22.800	23.773	18.617	0.00	0.00
ATOM	1684	C	PRO	106	23.949	23.784	16.855	0.00	0.00
ATOM	1685	O	PRO	106	24.939	24.339	17.274	0.00	0.00
ATOM	1686	N	THR	107	23.676	23.768	15.567	0.00	0.00
ATOM	1687	H	THR	107	22.828	23.361	15.285	0.00	0.00
ATOM	1688	CA	THR	107	24.513	24.307	14.498	0.00	0.00
ATOM	1689	HA	THR	107	25.546	24.139	14.749	0.00	0.00
ATOM	1690	CB	THR	107	24.243	23.574	13.191	0.00	0.00
ATOM	1691	HB	THR	107	24.751	24.038	12.418	0.00	0.00
ATOM	1692	CG2	THR	107	24.658	22.175	13.214	0.00	0.00
ATOM	1693	1HG2	THR	107	24.854	21.892	13.205	0.00	0.00
ATOM	1694	2HG2	THR	107	24.742	21.820	13.314	0.00	0.00
ATOM	1695	3HG2	THR	107	24.709	21.794	13.123	0.00	0.00
ATOM	1696	OG1	THR	107	22.933	23.577	12.891	0.00	0.00
ATOM	1697	HG1	THR	107	22.768	23.146	12.164	0.00	0.00
ATOM	1698	C	THR	107	24.337	25.804	14.300	0.00	0.00
ATOM	1699	O	THR	107	23.307	26.360	14.591	0.00	0.00
ATOM	1700	N	ALA	108	25.336	26.476	13.767	0.00	0.00
ATOM	1701	H	ALA	108	26.153	25.979	13.526	0.00	0.00
ATOM	1702	CA	ALA	108	25.260	27.892	13.434	0.00	0.00
ATOM	1703	HA	ALA	108	24.824	28.412	14.268	0.00	0.00
ATOM	1704	CB	ALA	108	26.665	28.429	13.227	0.00	0.00
ATOM	1705	HB1	ALA	108	27.129	28.340	13.387	0.00	0.00
ATOM	1706	HB2	ALA	108	26.973	28.498	12.850	0.00	0.00
ATOM	1707	HB3	ALA	108	26.907	28.858	13.287	0.00	0.00
ATOM	1708	C	ALA	108	24.366	28.157	12.222	0.00	0.00
ATOM	1709	O	ALA	108	23.588	29.089	12.226	0.00	0.00
ATOM	1710	N	GLU	109	24.392	27.291	11.216	0.00	0.00
ATOM	1711	H	GLU	109	25.067	26.564	11.247	0.00	0.00
ATOM	1712	CA	GLU	109	23.590	27.443	10.003	0.00	0.00
ATOM	1713	HA	GLU	109	23.777	28.425	9.610	0.00	0.00
ATOM	1714	CB	GLU	109	24.044	26.461	8.934	0.00	0.00
ATOM	1715	HB2	GLU	109	23.510	26.661	8.035	0.00	0.00
ATOM	1716	HB3	GLU	109	25.066	26.657	8.741	0.00	0.00
ATOM	1717	CG	GLU	109	23.908	25.008	9.263	0.00	0.00
ATOM	1718	HG2	GLU	109	24.413	24.691	9.606	0.00	0.00
ATOM	1719	HG3	GLU	109	23.406	24.862	9.657	0.00	0.00
ATOM	1720	CD	GLU	109	23.778	24.156	8.575	0.00	0.00
ATOM	1721	OE1	GLU	109	23.714	23.664	8.625	0.00	0.00
ATOM	1722	OE2	GLU	109	23.750	23.948	7.992	0.00	0.00
ATOM	1723	C	GLU	109	22.084	27.386	10.233	0.00	0.00
ATOM	1724	O	GLU	109	21.342	28.035	9.520	0.00	0.00
ATOM	1725	N	ASN	110	21.620	26.690	11.265	0.00	0.00
ATOM	1726	H	ASN	110	22.263	26.173	11.807	0.00	0.00
ATOM	1727	CA	ASN	110	20.215	26.675	11.657	0.00	0.00
ATOM	1728	HA	ASN	110	19.618	26.543	10.769	0.00	0.00
ATOM	1729	CB	ASN	110	20.002	25.467	12.568	0.00	0.00
ATOM	1730	HB2	ASN	110	20.410	24.596	12.099	0.00	0.00
ATOM	1731	HB3	ASN	110	20.512	25.610	13.496	0.00	0.00
ATOM	1732	CG	ASN	110	18.559	25.197	12.855	0.00	0.00
ATOM	1733	OD1	ASN	110	18.063	25.445	13.903	0.00	0.00
ATOM	1734	ND2	ASN	110	17.856	24.655	11.948	0.00	0.00
ATOM	1735	1HD2	ASN	110	16.912	24.464	12.134	0.00	0.00
ATOM	1736	2HD2	ASN	110	18.261	24.423	11.095	0.00	0.00
ATOM	1737	C	ASN	110	19.784	27.992	12.306	0.00	0.00
ATOM	1738	O	ASN	110	18.661	28.419	12.131	0.00	0.00
ATOM	1739	N	ALA	111	20.686	28.669	13.000	0.00	0.00
ATOM	1740	H	ALA	111	21.593	28.286	13.076	0.00	0.00
ATOM	1741	CA	ALA	111	20.454	29.991	13.561	0.00	0.00
ATOM	1742	HA	ALA	111	19.472	30.009	14.008	0.00	0.00
ATOM	1743	CB	ALA	111	21.461	30.255	14.671	0.00	0.00
ATOM	1744	HB1	ALA	111	21.619	30.667	14.929	0.00	0.00
ATOM	1745	HB2	ALA	111	21.524	30.110	15.153	0.00	0.00
ATOM	1746	HB3	ALA	111	21.949	30.200	14.736	0.00	0.00
ATOM	1747	C	ALA	111	20.470	31.095	12.500	0.00	0.00
ATOM	1748	O	ALA	111	19.631	31.969	12.548	0.00	0.00
ATOM	1749	N	TYR	112	21.351	31.023	11.508	0.00	0.00
ATOM	1750	H	TYR	112	22.042	30.311	11.543	0.00	0.00
ATOM	1751	CA	TYR	112	21.356	31.937	10.362	0.00	0.00
ATOM	1752	HA	TYR	112	21.449	32.949	10.729	0.00	0.00
ATOM	1753	CB	TYR	112	22.545	31.642	9.446	0.00	0.00
ATOM	1754	HB2	TYR	112	22.393	30.667	9.020	0.00	0.00
ATOM	1755	HB3	TYR	112	22.514	32.339	8.631	0.00	0.00
ATOM	1756	CG	TYR	112	23.949	31.698	10.016	0.00	0.00
ATOM	1757	CD1	TYR	112	24.290	32.512	11.084	0.00	0.00
ATOM	1758	HD1	TYR	112	23.554	33.126	11.529	0.00	0.00
ATOM	1759	CE1	TYR	112	25.599	32.537	11.568	0.00	0.00
ATOM	1760	HE1	TYR	112	25.862	33.160	12.373	0.00	0.00
ATOM	1761	CZ	TYR	112	26.583	31.752	10.987	0.00	0.00
ATOM	1762	OH	TYR	112	27.843	31.756	11.459	0.00	0.00
ATOM	1763	HH	TYR	112	28.389	31.171	10.979	0.00	0.00
ATOM	1764	CE2	TYR	112	26.254	30.960	9.907	0.00	0.00
ATOM	1765	HE2	TYR	112	27.007	30.377	9.450	0.00	0.00
ATOM	1766	CD2	TYR	112	24.946	30.943	9.422	0.00	0.00
ATOM	1767	HD2	TYR	112	24.702	30.353	8.583	0.00	0.00
ATOM	1768	C	TYR	112	20.050	31.854	9.564	0.00	0.00
ATOM	1769	O	TYR	112	19.484	32.869	9.197	0.00	0.00
ATOM	1770	N	GLU	113	19.521	30.654	9.347	0.00	0.00
ATOM	1771	H	GLU	113	20.037	29.860	9.648	0.00	0.00
ATOM	1772	CA	GLU	113	18.274	30.414	8.631	0.00	0.00
ATOM	1773	HA	GLU	113	18.317	30.935	7.695	0.00	0.00
ATOM	1774	CB	GLU	113	18.169	28.927	8.349	0.00	0.00
ATOM	1775	HB2	GLU	113	19.078	28.589	7.935	0.00	0.00
ATOM	1776	HB3	GLU	113	18.042	28.415	9.258	0.00	0.00
ATOM	1777	CG	GLU	113	17.067	28.514	7.440	0.00	0.00
ATOM	1778	HG2	GLU	113	16.981	27.574	7.446	0.00	0.00
ATOM	1779	HG3	GLU	113	16.250	28.854	7.737	0.00	0.00
ATOM	1780	CD	GLU	113	17.165	28.859	6.140	0.00	0.00
ATOM	1781	OE1	GLU	113	17.374	28.912	5.648	0.00	0.00
ATOM	1782	OE2	GLU	113	17.027	29.087	5.595	0.00	0.00
ATOM	1783	C	GLU	113	17.047	30.950	9.370	0.00	0.00
ATOM	1784	O	GLU	113	16.116	31.346	8.758	0.00	0.00

ATOM	1785	N	TYR	114	17.052	31.015	10.674	0.00	0.00
ATOM	1786	H	TYR	114	17.823	30.644	11.124	0.00	0.00
ATOM	1787	CA	TYR	114	15.990	31.618	11.470	0.00	0.00
ATOM	1788	HA	TYR	114	15.047	31.429	10.985	0.00	0.00
ATOM	1789	CB	TYR	114	15.936	30.949	12.833	0.00	0.00
ATOM	1790	HB2	TYR	114	15.891	29.887	12.707	0.00	0.00
ATOM	1791	HB3	TYR	114	16.837	31.155	13.365	0.00	0.00
ATOM	1792	CG	TYR	114	14.761	31.369	13.666	0.00	0.00
ATOM	1793	CD1	TYR	114	13.515	30.978	13.334	0.00	0.00
ATOM	1794	HD1	TYR	114	13.399	30.368	12.504	0.00	0.00
ATOM	1795	CE1	TYR	114	12.421	31.390	14.085	0.00	0.00
ATOM	1796	HE1	TYR	114	11.473	31.095	13.833	0.00	0.00
ATOM	1797	CZ	TYR	114	12.570	32.202	15.159	0.00	0.00
ATOM	1798	OH	TYR	114	11.527	32.596	15.883	0.00	0.00
ATOM	1799	HH	TYR	114	10.751	32.314	15.538	0.00	0.00
ATOM	1800	CE2	TYR	114	13.813	32.587	15.494	0.00	0.00
ATOM	1801	HE2	TYR	114	13.911	33.204	16.320	0.00	0.00
ATOM	1802	CD2	TYR	114	14.906	32.172	14.749	0.00	0.00
ATOM	1803	HD2	TYR	114	15.851	32.472	15.000	0.00	0.00
ATOM	1804	C	TYR	114	16.128	33.131	11.595	0.00	0.00
ATOM	1805	O	TYR	114	15.158	33.848	11.434	0.00	0.00
ATOM	1806	N	PHE	115	17.334	33.641	11.798	0.00	0.00
ATOM	1807	H	PHE	115	18.090	33.006	11.905	0.00	0.00
ATOM	1808	CA	PHE	115	17.615	35.067	11.924	0.00	0.00
ATOM	1809	HA	PHE	115	17.063	35.457	12.762	0.00	0.00
ATOM	1810	CB	PHE	115	19.100	35.245	12.208	0.00	0.00
ATOM	1811	HB2	PHE	115	19.361	34.625	13.034	0.00	0.00
ATOM	1812	HB3	PHE	115	19.658	34.888	11.372	0.00	0.00
ATOM	1813	CG	PHE	115	19.566	36.635	12.517	0.00	0.00
ATOM	1814	CD1	PHE	115	19.755	37.018	13.811	0.00	0.00
ATOM	1815	HD1	PHE	115	19.531	36.348	14.585	0.00	0.00
ATOM	1816	CE1	PHE	115	20.270	38.268	14.099	0.00	0.00
ATOM	1817	HE1	PHE	115	20.429	38.551	15.084	0.00	0.00
ATOM	1818	CZ	PHE	115	20.581	39.146	13.090	0.00	0.00
ATOM	1819	HZ	PHE	115	20.975	40.100	13.305	0.00	0.00
ATOM	1820	CE2	PHE	115	20.375	38.776	11.799	0.00	0.00
ATOM	1821	HE2	PHE	115	20.608	39.447	11.029	0.00	0.00
ATOM	1822	CD2	PHE	115	19.875	37.525	11.516	0.00	0.00
ATOM	1823	HD2	PHE	115	19.737	37.255	10.519	0.00	0.00
ATOM	1824	C	PHE	115	17.174	35.854	10.696	0.00	0.00
ATOM	1825	O	PHE	115	16.511	36.865	10.815	0.00	0.00
ATOM	1826	N	THR	116	17.451	35.350	9.501	0.00	0.00
ATOM	1827	H	THR	116	17.951	34.495	9.458	0.00	0.00
ATOM	1828	CA	THR	116	17.054	35.968	8.233	0.00	0.00
ATOM	1829	HA	THR	116	17.350	36.995	8.260	0.00	0.00
ATOM	1830	CB	THR	116	17.761	35.335	7.049	0.00	0.00
ATOM	1831	HB	THR	116	17.318	35.695	6.145	0.00	0.00
ATOM	1832	CG2	THR	116	19.226	35.657	7.012	0.00	0.00
ATOM	1833	1HG2	THR	116	19.588	35.744	7.037	0.00	0.00
ATOM	1834	2HG2	THR	116	19.567	35.708	6.983	0.00	0.00
ATOM	1835	3HG2	THR	116	19.580	35.769	6.975	0.00	0.00
ATOM	1836	OG1	THR	116	17.641	33.967	7.078	0.00	0.00
ATOM	1837	HG1	THR	116	18.139	33.642	7.253	0.00	0.00
ATOM	1838	C	THR	116	15.553	35.995	7.984	0.00	0.00
ATOM	1839	O	THR	116	15.108	36.730	7.158	0.00	0.00
ATOM	1840	N	LYS	117	14.755	35.256	8.722	0.00	0.00
ATOM	1841	H	LYS	117	15.186	34.667	9.371	0.00	0.00
ATOM	1842	CA	LYS	117	13.294	35.306	8.674	0.00	0.00
ATOM	1843	HA	LYS	117	12.992	35.585	7.685	0.00	0.00
ATOM	1844	CB	LYS	117	12.716	33.933	8.955	0.00	0.00
ATOM	1845	HB2	LYS	117	13.040	33.572	9.816	0.00	0.00
ATOM	1846	HB3	LYS	117	11.730	33.989	9.030	0.00	0.00
ATOM	1847	CG	LYS	117	12.989	32.960	7.980	0.00	0.00
ATOM	1848	HG2	LYS	117	12.656	33.305	7.152	0.00	0.00
ATOM	1849	HG3	LYS	117	13.948	32.890	7.909	0.00	0.00
ATOM	1850	CD	LYS	117	12.397	31.624	8.251	0.00	0.00
ATOM	1851	HD2	LYS	117	12.723	31.263	8.955	0.00	0.00
ATOM	1852	HD3	LYS	117	11.563	31.683	8.380	0.00	0.00
ATOM	1853	CE	LYS	117	12.503	30.713	7.365	0.00	0.00
ATOM	1854	HE2	LYS	117	11.973	30.468	7.162	0.00	0.00
ATOM	1855	HE3	LYS	117	12.769	30.988	6.783	0.00	0.00
ATOM	1856	NZ	LYS	117	12.931	29.812	7.537	0.00	0.00
ATOM	1857	HZ1	LYS	117	13.041	29.702	7.775	0.00	0.00
ATOM	1858	HZ2	LYS	117	12.913	29.496	7.542	0.00	0.00
ATOM	1859	HZ3	LYS	117	13.161	29.561	7.416	0.00	0.00
ATOM	1860	C	LYS	117	12.675	36.337	9.596	0.00	0.00
ATOM	1861	O	LYS	117	11.584	36.749	9.347	0.00	0.00
ATOM	1862	N	ILE	118	13.337	36.765	10.640	0.00	0.00
ATOM	1863	H	ILE	118	14.217	36.378	10.774	0.00	0.00
ATOM	1864	CA	ILE	118	12.781	37.671	11.661	0.00	0.00
ATOM	1865	HA	ILE	118	11.779	37.932	11.363	0.00	0.00
ATOM	1866	CB	ILE	118	12.641	36.976	13.017	0.00	0.00
ATOM	1867	HB	ILE	118	12.149	37.670	13.668	0.00	0.00
ATOM	1868	CG2	ILE	118	11.733	35.764	12.910	0.00	0.00
ATOM	1869	1HG2	ILE	118	11.590	35.437	12.754	0.00	0.00
ATOM	1870	2HG2	ILE	118	11.552	35.404	13.023	0.00	0.00
ATOM	1871	3HG2	ILE	118	11.378	35.565	12.881	0.00	0.00
ATOM	1872	CG1	ILE	118	13.968	36.609	13.657	0.00	0.00
ATOM	1873	2HG1	ILE	118	14.392	35.825	13.165	0.00	0.00
ATOM	1874	3HG1	ILE	118	14.614	37.392	13.600	0.00	0.00
ATOM	1875	CD1	ILE	118	13.900	36.248	15.071	0.00	0.00
ATOM	1876	1HD1	ILE	118	13.730	36.201	15.398	0.00	0.00
ATOM	1877	2HD1	ILE	118	13.943	36.025	15.395	0.00	0.00
ATOM	1878	3HD1	ILE	118	14.001	36.261	15.451	0.00	0.00
ATOM	1879	C	ILE	118	13.489	39.014	11.805	0.00	0.00
ATOM	1880	O	ILE	118	12.862	39.961	12.237	0.00	0.00
ATOM	1881	N	ALA	119	14.764	39.132	11.462	0.00	0.00
ATOM	1882	H	ALA	119	15.237	38.337	11.102	0.00	0.00
ATOM	1883	CA	ALA	119	15.575	40.298	11.786	0.00	0.00
ATOM	1884	HA	ALA	119	15.474	40.484	12.832	0.00	0.00
ATOM	1885	CB	ALA	119	17.020	39.962	11.525	0.00	0.00
ATOM	1886	HB1	ALA	119	17.351	39.832	11.488	0.00	0.00
ATOM	1887	HB2	ALA	119	17.374	39.886	11.412	0.00	0.00
ATOM	1888	HB3	ALA	119	17.379	39.927	11.498	0.00	0.00
ATOM	1889	C	ALA	119	15.168	41.601	11.101	0.00	0.00

ATOM	1890	O	ALA	119	15.412	42.660	11.633	0.00	0.00
ATOM	1891	N	THR	120	14.502	41.552	9.965	0.00	0.00
ATOM	1892	H	THR	120	14.335	40.665	9.569	0.00	0.00
ATOM	1893	CA	THR	120	14.013	42.735	9.262	0.00	0.00
ATOM	1894	HA	THR	120	14.809	43.443	9.209	0.00	0.00
ATOM	1895	CB	THR	120	13.616	42.404	7.842	0.00	0.00
ATOM	1896	HB	THR	120	12.873	42.359	7.648	0.00	0.00
ATOM	1897	CG2	THR	120	13.929	43.011	6.994	0.00	0.00
ATOM	1898	1HG2	THR	120	14.231	43.163	6.713	0.00	0.00
ATOM	1899	2HG2	THR	120	13.837	43.029	6.664	0.00	0.00
ATOM	1900	3HG2	THR	120	13.953	43.290	6.972	0.00	0.00
ATOM	1901	OG1	THR	120	13.929	41.560	7.492	0.00	0.00
ATOM	1902	HG1	THR	120	13.627	41.171	7.132	0.00	0.00
ATOM	1903	C	THR	120	12.872	43.440	9.986	0.00	0.00
ATOM	1904	O	THR	120	12.694	44.603	9.838	0.00	0.00
ATOM	1905	N	SER	121	12.154	42.787	10.846	0.00	0.00
ATOM	1906	H	SER	121	12.347	41.838	10.939	0.00	0.00
ATOM	1907	CA	SER	121	11.086	43.369	11.658	0.00	0.00
ATOM	1908	HA	SER	121	10.363	43.805	10.993	0.00	0.00
ATOM	1909	CB	SER	121	10.373	42.291	12.453	0.00	0.00
ATOM	1910	HB2	SER	121	9.522	42.730	12.920	0.00	0.00
ATOM	1911	HB3	SER	121	10.035	41.513	11.807	0.00	0.00
ATOM	1912	OG	SER	121	11.187	41.741	13.426	0.00	0.00
ATOM	1913	HG	SER	121	11.583	41.108	13.151	0.00	0.00
ATOM	1914	C	SER	121	11.557	44.480	12.592	0.00	0.00
ATOM	1915	O	SER	121	10.833	45.431	12.820	0.00	0.00
ATOM	1916	N	LEU	122	12.802	44.418	13.052	0.00	0.00
ATOM	1917	H	LEU	122	13.333	43.624	12.796	0.00	0.00
ATOM	1918	CA	LEU	122	13.453	45.402	13.920	0.00	0.00
ATOM	1919	HA	LEU	122	12.840	45.519	14.801	0.00	0.00
ATOM	1920	CB	LEU	122	14.801	44.790	14.328	0.00	0.00
ATOM	1921	HB2	LEU	122	14.603	43.817	14.738	0.00	0.00
ATOM	1922	HB3	LEU	122	15.396	44.652	13.445	0.00	0.00
ATOM	1923	CG	LEU	122	15.660	45.553	15.336	0.00	0.00
ATOM	1924	HG	LEU	122	15.997	46.474	14.895	0.00	0.00
ATOM	1925	CD1	LEU	122	14.943	45.884	16.627	0.00	0.00
ATOM	1926	1HD1	LEU	122	14.830	45.527	17.089	0.00	0.00
ATOM	1927	2HD1	LEU	122	14.400	46.085	16.690	0.00	0.00
ATOM	1928	3HD1	LEU	122	15.096	46.302	17.034	0.00	0.00
ATOM	1929	CD2	LEU	122	16.883	44.725	15.694	0.00	0.00
ATOM	1930	1HD2	LEU	122	17.125	44.334	15.550	0.00	0.00
ATOM	1931	2HD2	LEU	122	17.342	44.781	15.732	0.00	0.00
ATOM	1932	3HD2	LEU	122	17.075	44.470	16.058	0.00	0.00
ATOM	1933	C	LEU	122	13.612	46.790	13.276	0.00	0.00
ATOM	1934	O	LEU	122	13.731	47.767	13.988	0.00	0.00
ATOM	1935	N	PHE	123	13.564	46.891	11.953	0.00	0.00
ATOM	1936	H	PHE	123	13.449	46.048	11.443	0.00	0.00
ATOM	1937	CA	PHE	123	13.740	48.120	11.178	0.00	0.00
ATOM	1938	HA	PHE	123	13.778	48.951	11.864	0.00	0.00
ATOM	1939	CB	PHE	123	15.082	48.063	10.451	0.00	0.00
ATOM	1940	HB2	PHE	123	15.068	47.239	9.768	0.00	0.00
ATOM	1941	HB3	PHE	123	15.203	48.956	9.874	0.00	0.00
ATOM	1942	CG	PHE	123	16.277	47.925	11.361	0.00	0.00
ATOM	1943	CD1	PHE	123	16.818	49.043	11.974	0.00	0.00
ATOM	1944	HD1	PHE	123	16.395	49.991	11.776	0.00	0.00
ATOM	1945	CE1	PHE	123	17.893	48.923	12.853	0.00	0.00
ATOM	1946	HE1	PHE	123	18.311	49.779	13.310	0.00	0.00
ATOM	1947	CZ	PHE	123	18.421	47.678	13.130	0.00	0.00
ATOM	1948	HZ	PHE	123	19.232	47.588	13.814	0.00	0.00
ATOM	1949	CE2	PHE	123	17.888	46.556	12.519	0.00	0.00
ATOM	1950	HE2	PHE	123	18.291	45.604	12.734	0.00	0.00
ATOM	1951	CD2	PHE	123	16.826	46.679	11.627	0.00	0.00
ATOM	1952	HD2	PHE	123	16.429	45.818	11.155	0.00	0.00
ATOM	1953	C	PHE	123	12.580	48.424	10.222	0.00	0.00
ATOM	1954	O	PHE	123	12.668	49.317	9.419	0.00	0.00
ATOM	1955	N	GLU	124	11.484	47.700	10.280	0.00	0.00
ATOM	1956	H	GLU	124	11.469	46.973	10.934	0.00	0.00
ATOM	1957	CA	GLU	124	10.360	47.824	9.356	0.00	0.00
ATOM	1958	HA	GLU	124	10.742	47.763	8.363	0.00	0.00
ATOM	1959	CB	GLU	124	9.414	46.656	9.565	0.00	0.00
ATOM	1960	HB2	GLU	124	9.893	45.837	9.674	0.00	0.00
ATOM	1961	HB3	GLU	124	8.907	46.771	10.355	0.00	0.00
ATOM	1962	CG	GLU	124	8.521	46.400	8.556	0.00	0.00
ATOM	1963	HG2	GLU	124	9.001	46.292	7.793	0.00	0.00
ATOM	1964	HG3	GLU	124	8.033	47.180	8.445	0.00	0.00
ATOM	1965	CD	GLU	124	7.639	45.239	8.734	0.00	0.00
ATOM	1966	OE1	GLU	124	7.516	44.593	8.589	0.00	0.00
ATOM	1967	OE2	GLU	124	7.056	44.963	9.021	0.00	0.00
ATOM	1968	C	GLU	124	9.630	49.155	9.443	0.00	0.00
ATOM	1969	O	GLU	124	9.207	49.670	8.452	0.00	0.00
ATOM	1970	N	SER	125	9.523	49.739	10.608	0.00	0.00
ATOM	1971	H	SER	125	9.855	49.242	11.382	0.00	0.00
ATOM	1972	CA	SER	125	8.888	51.031	10.838	0.00	0.00
ATOM	1973	HA	SER	125	8.309	51.280	9.988	0.00	0.00
ATOM	1974	CB	SER	125	7.940	50.943	11.981	0.00	0.00
ATOM	1975	HB2	SER	125	7.929	51.354	12.459	0.00	0.00
ATOM	1976	HB3	SER	125	7.313	50.981	11.905	0.00	0.00
ATOM	1977	OG	SER	125	7.848	50.286	12.532	0.00	0.00
ATOM	1978	HG	SER	125	7.331	50.151	12.836	0.00	0.00
ATOM	1979	C	SER	125	9.844	52.178	11.014	0.00	0.00
ATOM	1980	O	SER	125	9.461	53.218	11.273	0.00	0.00
ATOM	1981	N	GLY	126	11.082	52.019	10.874	0.00	0.00
ATOM	1982	H	GLY	126	11.354	51.145	10.661	0.00	0.00
ATOM	1983	CA	GLY	126	12.086	53.045	10.982	0.00	0.00
ATOM	1984	HA2	GLY	126	12.223	53.457	10.054	0.00	0.00
ATOM	1985	HA3	GLY	126	11.747	53.789	11.606	0.00	0.00
ATOM	1986	C	GLY	126	13.426	52.605	11.496	0.00	0.00
ATOM	1987	O	GLY	126	13.615	51.457	11.796	0.00	0.00
ATOM	1988	N	ILE	127	14.359	53.527	11.614	0.00	0.00
ATOM	1989	H	ILE	127	14.121	54.446	11.367	0.00	0.00
ATOM	1990	CA	ILE	127	15.702	53.321	12.140	0.00	0.00
ATOM	1991	HA	ILE	127	15.699	52.378	12.667	0.00	0.00
ATOM	1992	CB	ILE	127	16.715	53.169	11.004	0.00	0.00
ATOM	1993	HB	ILE	127	16.397	52.324	10.422	0.00	0.00
ATOM	1994	CG2	ILE	127	16.763	54.372	10.071	0.00	0.00

ATOM	1995	1HG2	ILE	127	16.797	54.474	9.616	0.00	0.00
ATOM	1996	2HG2	ILE	127	16.512	54.753	9.925	0.00	0.00
ATOM	1997	3HG2	ILE	127	17.009	54.763	9.969	0.00	0.00
ATOM	1998	CG1	ILE	127	18.104	52.831	11.554	0.00	0.00
ATOM	1999	2HG1	ILE	127	18.552	53.711	11.961	0.00	0.00
ATOM	2000	3HG1	ILE	127	18.005	52.116	12.338	0.00	0.00
ATOM	2001	CD1	ILE	127	19.049	52.230	10.542	0.00	0.00
ATOM	2002	1HD1	ILE	127	19.369	52.071	10.376	0.00	0.00
ATOM	2003	2HD1	ILE	127	19.199	52.009	10.288	0.00	0.00
ATOM	2004	3HD1	ILE	127	19.279	52.171	10.242	0.00	0.00
ATOM	2005	C	ILE	127	16.074	54.404	13.152	0.00	0.00
ATOM	2006	O	ILE	127	15.863	55.582	12.930	0.00	0.00
ATOM	2007	N	ASN	128	16.623	53.991	14.284	0.00	0.00
ATOM	2008	H	ASN	128	16.792	53.020	14.383	0.00	0.00
ATOM	2009	CA	ASN	128	17.120	54.825	15.376	0.00	0.00
ATOM	2010	HA	ASN	128	17.598	55.699	14.957	0.00	0.00
ATOM	2011	CB	ASN	128	15.943	55.300	16.236	0.00	0.00
ATOM	2012	HB2	ASN	128	16.294	55.945	17.020	0.00	0.00
ATOM	2013	HB3	ASN	128	15.297	55.893	15.618	0.00	0.00
ATOM	2014	CG	ASN	128	15.122	54.214	16.877	0.00	0.00
ATOM	2015	OD1	ASN	128	15.593	53.231	17.344	0.00	0.00
ATOM	2016	ND2	ASN	128	13.866	54.369	16.932	0.00	0.00
ATOM	2017	1HD2	ASN	128	13.294	53.713	17.389	0.00	0.00
ATOM	2018	2HD2	ASN	128	13.481	55.183	16.563	0.00	0.00
ATOM	2019	C	ASN	128	18.180	54.065	16.188	0.00	0.00
ATOM	2020	O	ASN	128	18.376	52.873	15.991	0.00	0.00
ATOM	2021	N	TRP	129	18.865	54.742	17.106	0.00	0.00
ATOM	2022	H	TRP	129	18.668	55.711	17.210	0.00	0.00
ATOM	2023	CA	TRP	129	19.966	54.175	17.884	0.00	0.00
ATOM	2024	HA	TRP	129	20.712	53.825	17.188	0.00	0.00
ATOM	2025	CB	TRP	129	20.589	55.276	18.737	0.00	0.00
ATOM	2026	HB2	TRP	129	20.888	56.082	18.092	0.00	0.00
ATOM	2027	HB3	TRP	129	19.839	55.662	19.399	0.00	0.00
ATOM	2028	CG	TRP	129	21.785	54.903	19.548	0.00	0.00
ATOM	2029	CD1	TRP	129	21.878	55.008	20.864	0.00	0.00
ATOM	2030	HD1	TRP	129	21.096	55.342	21.480	0.00	0.00
ATOM	2031	NE1	TRP	129	23.142	54.677	21.280	0.00	0.00
ATOM	2032	HE1	TRP	129	23.458	54.745	22.213	0.00	0.00
ATOM	2033	CE2	TRP	129	23.922	54.313	20.252	0.00	0.00
ATOM	2034	CZ2	TRP	129	25.244	53.921	20.182	0.00	0.00
ATOM	2035	HZ2	TRP	129	25.842	53.865	21.056	0.00	0.00
ATOM	2036	CH2	TRP	129	25.773	53.630	18.950	0.00	0.00
ATOM	2037	HH2	TRP	129	26.787	53.332	18.874	0.00	0.00
ATOM	2038	CZ3	TRP	129	24.975	53.717	17.819	0.00	0.00
ATOM	2039	HZ3	TRP	129	25.386	53.478	16.886	0.00	0.00
ATOM	2040	CE3	TRP	129	23.646	54.111	17.910	0.00	0.00
ATOM	2041	HE3	TRP	129	23.050	54.191	17.037	0.00	0.00
ATOM	2042	CD2	TRP	129	23.080	54.430	19.128	0.00	0.00
ATOM	2043	C	TRP	129	19.559	52.969	18.730	0.00	0.00
ATOM	2044	O	TRP	129	20.276	51.983	18.759	0.00	0.00
ATOM	2045	N	GLY	130	18.390	52.988	19.354	0.00	0.00
ATOM	2046	H	GLY	130	17.828	53.805	19.285	0.00	0.00
ATOM	2047	CA	GLY	130	17.903	51.872	20.160	0.00	0.00
ATOM	2048	HA2	GLY	130	18.620	51.674	20.935	0.00	0.00
ATOM	2049	HA3	GLY	130	16.970	52.135	20.621	0.00	0.00
ATOM	2050	C	GLY	130	17.688	50.588	19.367	0.00	0.00
ATOM	2051	O	GLY	130	18.060	49.525	19.834	0.00	0.00
ATOM	2052	N	ARG	131	17.197	50.671	18.133	0.00	0.00
ATOM	2053	H	ARG	131	16.906	51.572	17.824	0.00	0.00
ATOM	2054	CA	ARG	131	17.096	49.532	17.202	0.00	0.00
ATOM	2055	HA	ARG	131	16.589	48.717	17.699	0.00	0.00
ATOM	2056	CB	ARG	131	16.281	49.929	15.966	0.00	0.00
ATOM	2057	HB2	ARG	131	16.746	50.790	15.514	0.00	0.00
ATOM	2058	HB3	ARG	131	16.316	49.125	15.251	0.00	0.00
ATOM	2059	CG	ARG	131	14.803	50.233	16.233	0.00	0.00
ATOM	2060	HG2	ARG	131	14.269	49.320	16.417	0.00	0.00
ATOM	2061	HG3	ARG	131	14.702	50.859	17.102	0.00	0.00
ATOM	2062	CD	ARG	131	14.201	50.950	15.031	0.00	0.00
ATOM	2063	HD2	ARG	131	14.791	51.823	14.831	0.00	0.00
ATOM	2064	HD3	ARG	131	14.258	50.312	14.170	0.00	0.00
ATOM	2065	NE	ARG	131	12.829	51.394	15.251	0.00	0.00
ATOM	2066	HE	ARG	131	12.695	52.273	15.629	0.00	0.00
ATOM	2067	CZ	ARG	131	11.739	50.812	14.907	0.00	0.00
ATOM	2068	NH1	ARG	131	11.718	49.651	14.408	0.00	0.00
ATOM	2069	1HH1	ARG	131	12.562	49.158	14.282	0.00	0.00
ATOM	2070	2HH1	ARG	131	10.865	49.248	14.122	0.00	0.00
ATOM	2071	NH2	ARG	131	10.616	51.395	15.060	0.00	0.00
ATOM	2072	1HH2	ARG	131	10.592	52.287	15.437	0.00	0.00
ATOM	2073	2HH2	ARG	131	9.797	50.953	14.834	0.00	0.00
ATOM	2074	C	ARG	131	18.472	48.993	16.802	0.00	0.00
ATOM	2075	O	ARG	131	18.642	47.790	16.707	0.00	0.00
ATOM	2076	N	VAL	132	19.474	49.853	16.635	0.00	0.00
ATOM	2077	H	VAL	132	19.273	50.822	16.731	0.00	0.00
ATOM	2078	CA	VAL	132	20.857	49.439	16.334	0.00	0.00
ATOM	2079	HA	VAL	132	20.827	48.694	15.553	0.00	0.00
ATOM	2080	CB	VAL	132	21.690	50.610	15.800	0.00	0.00
ATOM	2081	HB	VAL	132	21.690	51.405	16.512	0.00	0.00
ATOM	2082	CG1	VAL	132	23.125	50.238	15.518	0.00	0.00
ATOM	2083	1HG1	VAL	132	23.517	50.326	15.406	0.00	0.00
ATOM	2084	2HG1	VAL	132	23.471	50.103	15.635	0.00	0.00
ATOM	2085	3HG1	VAL	132	23.442	50.018	15.320	0.00	0.00
ATOM	2086	CG2	VAL	132	21.114	51.146	14.504	0.00	0.00
ATOM	2087	1HG2	VAL	132	21.005	51.249	14.155	0.00	0.00
ATOM	2088	2HG2	VAL	132	20.929	51.274	14.205	0.00	0.00
ATOM	2089	3HG2	VAL	132	20.994	51.328	14.203	0.00	0.00
ATOM	2090	C	VAL	132	21.525	48.771	17.536	0.00	0.00
ATOM	2091	O	VAL	132	22.143	47.731	17.369	0.00	0.00
ATOM	2092	N	VAL	133	21.349	49.283	18.751	0.00	0.00
ATOM	2093	H	VAL	133	20.864	50.152	18.824	0.00	0.00
ATOM	2094	CA	VAL	133	21.861	48.653	19.983	0.00	0.00
ATOM	2095	HA	VAL	133	22.901	48.411	19.827	0.00	0.00
ATOM	2096	CB	VAL	133	21.796	49.617	21.175	0.00	0.00
ATOM	2097	HB	VAL	133	20.790	49.961	21.286	0.00	0.00
ATOM	2098	CG1	VAL	133	22.219	48.963	22.472	0.00	0.00
ATOM	2099	1HG1	VAL	133	22.272	48.943	22.872	0.00	0.00

ATOM	2100	ZHG1	VAL	133	22.210	48.689	22.774	0.00	0.00
ATOM	2101	3HG1	VAL	133	22.470	48.795	22.749	0.00	0.00
ATOM	2102	CG2	VAL	133	22.698	50.815	20.957	0.00	0.00
ATOM	2103	1HG2	VAL	133	22.905	51.123	20.834	0.00	0.00
ATOM	2104	2HG2	VAL	133	22.871	51.157	20.950	0.00	0.00
ATOM	2105	3HG2	VAL	133	22.970	51.082	20.927	0.00	0.00
ATOM	2106	C	VAL	133	21.152	47.326	20.266	0.00	0.00
ATOM	2107	O	VAL	133	21.803	46.375	20.668	0.00	0.00
ATOM	2108	N	ALA	134	19.862	47.200	19.967	0.00	0.00
ATOM	2109	H	ALA	134	19.353	48.015	19.703	0.00	0.00
ATOM	2110	CA	ALA	134	19.147	45.932	20.049	0.00	0.00
ATOM	2111	HA	ALA	134	19.307	45.510	21.031	0.00	0.00
ATOM	2112	CB	ALA	134	17.660	46.201	19.892	0.00	0.00
ATOM	2113	HB1	ALA	134	17.274	46.393	20.312	0.00	0.00
ATOM	2114	HB2	ALA	134	17.381	46.580	19.518	0.00	0.00
ATOM	2115	HB3	ALA	134	17.239	45.808	19.742	0.00	0.00
ATOM	2116	C	ALA	134	19.669	44.892	19.043	0.00	0.00
ATOM	2117	O	ALA	134	19.799	43.734	19.403	0.00	0.00
ATOM	2118	N	LEU	135	20.043	45.288	17.824	0.00	0.00
ATOM	2119	H	LEU	135	19.890	46.236	17.572	0.00	0.00
ATOM	2120	CA	LEU	135	20.688	44.401	16.851	0.00	0.00
ATOM	2121	HA	LEU	135	20.059	43.529	16.733	0.00	0.00
ATOM	2122	CB	LEU	135	20.800	45.105	15.491	0.00	0.00
ATOM	2123	HB2	LEU	135	19.821	45.388	15.158	0.00	0.00
ATOM	2124	HB3	LEU	135	21.365	46.005	15.621	0.00	0.00
ATOM	2125	CG	LEU	135	21.468	44.287	14.385	0.00	0.00
ATOM	2126	HG	LEU	135	22.441	43.991	14.699	0.00	0.00
ATOM	2127	CD1	LEU	135	20.685	43.066	14.012	0.00	0.00
ATOM	2128	1HD1	LEU	135	20.521	42.682	14.033	0.00	0.00
ATOM	2129	2HD1	LEU	135	20.406	42.868	13.915	0.00	0.00
ATOM	2130	3HD1	LEU	135	20.581	42.746	13.801	0.00	0.00
ATOM	2131	CD2	LEU	135	21.643	45.120	13.143	0.00	0.00
ATOM	2132	1HD2	LEU	135	22.036	44.974	12.650	0.00	0.00
ATOM	2133	2HD2	LEU	135	21.183	45.263	12.755	0.00	0.00
ATOM	2134	3HD2	LEU	135	21.863	45.724	13.123	0.00	0.00
ATOM	2135	C	LEU	135	22.056	43.907	17.338	0.00	0.00
ATOM	2136	O	LEU	135	22.370	42.738	17.198	0.00	0.00
ATOM	2137	N	LEU	136	22.856	44.773	17.950	0.00	0.00
ATOM	2138	H	LEU	136	22.558	45.722	18.017	0.00	0.00
ATOM	2139	CA	LEU	136	24.139	44.394	18.545	0.00	0.00
ATOM	2140	HA	LEU	136	24.711	43.867	17.801	0.00	0.00
ATOM	2141	CB	LEU	136	24.906	45.638	18.964	0.00	0.00
ATOM	2142	HB2	LEU	136	24.292	46.224	19.590	0.00	0.00
ATOM	2143	HB3	LEU	136	25.743	45.331	19.535	0.00	0.00
ATOM	2144	CG	LEU	136	25.408	46.520	17.849	0.00	0.00
ATOM	2145	HG	LEU	136	24.657	46.788	17.276	0.00	0.00
ATOM	2146	CD1	LEU	136	26.004	47.707	18.323	0.00	0.00
ATOM	2147	1HD1	LEU	136	26.023	48.128	18.202	0.00	0.00
ATOM	2148	2HD1	LEU	136	26.386	47.889	18.412	0.00	0.00
ATOM	2149	3HD1	LEU	136	26.016	47.981	18.700	0.00	0.00
ATOM	2150	CD2	LEU	136	26.366	45.918	17.018	0.00	0.00
ATOM	2151	1HD2	LEU	136	26.726	45.700	17.131	0.00	0.00
ATOM	2152	2HD2	LEU	136	26.359	45.570	16.672	0.00	0.00
ATOM	2153	3HD2	LEU	136	26.685	46.055	16.631	0.00	0.00
ATOM	2154	C	LEU	136	23.959	43.427	19.714	0.00	0.00
ATOM	2155	O	LEU	136	24.664	42.433	19.796	0.00	0.00
ATOM	2156	N	GLY	137	22.974	43.663	20.578	0.00	0.00
ATOM	2157	H	GLY	137	22.465	44.511	20.464	0.00	0.00
ATOM	2158	CA	GLY	137	22.616	42.778	21.678	0.00	0.00
ATOM	2159	HA2	GLY	137	23.466	42.652	22.324	0.00	0.00
ATOM	2160	HA3	GLY	137	21.829	43.244	22.241	0.00	0.00
ATOM	2161	C	GLY	137	22.115	41.405	21.244	0.00	0.00
ATOM	2162	O	GLY	137	22.514	40.404	21.819	0.00	0.00
ATOM	2163	N	PHE	138	21.305	41.346	20.194	0.00	0.00
ATOM	2164	H	PHE	138	20.967	42.201	19.809	0.00	0.00
ATOM	2165	CA	PHE	138	20.877	40.103	19.561	0.00	0.00
ATOM	2166	HA	PHE	138	20.486	39.453	20.331	0.00	0.00
ATOM	2167	CB	PHE	138	19.758	40.411	18.560	0.00	0.00
ATOM	2168	HB2	PHE	138	19.029	41.024	19.048	0.00	0.00
ATOM	2169	HB3	PHE	138	20.174	40.993	17.765	0.00	0.00
ATOM	2170	CG	PHE	138	19.005	39.259	17.950	0.00	0.00
ATOM	2171	CD1	PHE	138	18.664	38.944	17.348	0.00	0.00
ATOM	2172	HD1	PHE	138	18.951	39.486	17.324	0.00	0.00
ATOM	2173	CE1	PHE	138	17.943	37.911	16.767	0.00	0.00
ATOM	2174	HE1	PHE	138	17.684	37.680	16.312	0.00	0.00
ATOM	2175	CZ	PHE	138	17.557	37.187	16.779	0.00	0.00
ATOM	2176	HZ	PHE	138	17.015	36.388	16.339	0.00	0.00
ATOM	2177	CE2	PHE	138	17.870	37.500	17.387	0.00	0.00
ATOM	2178	HE2	PHE	138	17.564	36.956	17.405	0.00	0.00
ATOM	2179	CD2	PHE	138	18.594	38.530	17.971	0.00	0.00
ATOM	2180	HD2	PHE	138	18.818	38.750	18.437	0.00	0.00
ATOM	2181	C	PHE	138	22.057	39.382	18.900	0.00	0.00
ATOM	2182	O	PHE	138	22.203	38.181	19.036	0.00	0.00
ATOM	2183	N	GLY	139	22.964	40.123	18.270	0.00	0.00
ATOM	2184	H	GLY	139	22.775	41.094	18.162	0.00	0.00
ATOM	2185	CA	GLY	139	24.217	39.624	17.713	0.00	0.00
ATOM	2186	HA2	GLY	139	24.004	38.874	16.975	0.00	0.00
ATOM	2187	HA3	GLY	139	24.714	40.443	17.227	0.00	0.00
ATOM	2188	C	GLY	139	25.175	39.046	18.750	0.00	0.00
ATOM	2189	O	GLY	139	25.743	37.991	18.517	0.00	0.00
ATOM	2190	N	TYR	140	25.298	39.660	19.925	0.00	0.00
ATOM	2191	H	TYR	140	24.842	40.538	20.050	0.00	0.00
ATOM	2192	CA	TYR	140	26.057	39.102	21.048	0.00	0.00
ATOM	2193	HA	TYR	140	27.049	38.845	20.701	0.00	0.00
ATOM	2194	CB	TYR	140	26.218	40.119	22.179	0.00	0.00
ATOM	2195	HB2	TYR	140	26.767	40.963	21.806	0.00	0.00
ATOM	2196	HB3	TYR	140	25.249	40.467	22.487	0.00	0.00
ATOM	2197	CG	TYR	140	26.939	39.568	23.389	0.00	0.00
ATOM	2198	CD1	TYR	140	28.315	39.388	23.340	0.00	0.00
ATOM	2199	HD1	TYR	140	28.846	39.682	22.471	0.00	0.00
ATOM	2200	CE1	TYR	140	28.993	38.809	24.412	0.00	0.00
ATOM	2201	HE1	TYR	140	30.043	38.665	24.380	0.00	0.00
ATOM	2202	CZ	TYR	140	28.297	38.409	25.551	0.00	0.00
ATOM	2203	OH	TYR	140	28.960	37.861	26.583	0.00	0.00
ATOM	2204	HH	TYR	140	28.396	37.643	27.300	0.00	0.00

ATOM	2205	CE2	TYR	140	26.915	38.593	25.606	0.00	0.00
ATOM	2206	HE2	TYR	140	26.377	38.288	26.469	0.00	0.00
ATOM	2207	CD2	TYR	140	26.240	39.173	24.527	0.00	0.00
ATOM	2208	HD2	TYR	140	25.189	39.302	24.572	0.00	0.00
ATOM	2209	C	TYR	140	25.425	37.814	21.574	0.00	0.00
ATOM	2210	O	TYR	140	26.126	36.832	21.766	0.00	0.00
ATOM	2211	N	ARG	141	24.103	37.780	21.745	0.00	0.00
ATOM	2212	H	ARG	141	23.583	38.616	21.582	0.00	0.00
ATOM	2213	CA	ARG	141	23.391	36.573	22.185	0.00	0.00
ATOM	2214	HA	ARG	141	23.902	36.207	23.066	0.00	0.00
ATOM	2215	CB	ARG	141	21.957	36.949	22.589	0.00	0.00
ATOM	2216	HB2	ARG	141	21.999	37.741	23.317	0.00	0.00
ATOM	2217	HB3	ARG	141	21.441	37.331	21.729	0.00	0.00
ATOM	2218	CG	ARG	141	21.120	35.811	23.176	0.00	0.00
ATOM	2219	HG2	ARG	141	20.185	36.213	23.527	0.00	0.00
ATOM	2220	HG3	ARG	141	20.892	35.110	22.399	0.00	0.00
ATOM	2221	CD	ARG	141	21.758	35.043	24.326	0.00	0.00
ATOM	2222	HD2	ARG	141	21.116	34.220	24.556	0.00	0.00
ATOM	2223	HD3	ARG	141	22.700	34.633	24.020	0.00	0.00
ATOM	2224	NE	ARG	141	21.940	35.847	25.519	0.00	0.00
ATOM	2225	HE	ARG	141	21.578	36.770	25.543	0.00	0.00
ATOM	2226	CZ	ARG	141	22.523	35.468	26.602	0.00	0.00
ATOM	2227	NH1	ARG	141	23.035	34.310	26.744	0.00	0.00
ATOM	2228	1HH1	ARG	141	22.978	33.640	26.036	0.00	0.00
ATOM	2229	2HH1	ARG	141	23.434	34.064	27.601	0.00	0.00
ATOM	2230	NH2	ARG	141	22.600	36.256	27.591	0.00	0.00
ATOM	2231	1HH2	ARG	141	22.070	37.085	27.580	0.00	0.00
ATOM	2232	2HH2	ARG	141	23.020	35.956	28.415	0.00	0.00
ATOM	2233	C	ARG	141	23.480	35.437	21.162	0.00	0.00
ATOM	2234	O	ARG	141	23.642	34.300	21.558	0.00	0.00
ATOM	2235	N	LEU	142	23.479	35.736	19.867	0.00	0.00
ATOM	2236	H	LEU	142	23.276	36.678	19.616	0.00	0.00
ATOM	2237	CA	LEU	142	23.743	34.780	18.792	0.00	0.00
ATOM	2238	HA	LEU	142	23.081	33.934	18.926	0.00	0.00
ATOM	2239	CB	LEU	142	23.410	35.442	17.446	0.00	0.00
ATOM	2240	HB2	LEU	142	22.380	35.736	17.451	0.00	0.00
ATOM	2241	HB3	LEU	142	23.991	36.337	17.358	0.00	0.00
ATOM	2242	CG	LEU	142	23.660	34.604	16.195	0.00	0.00
ATOM	2243	HG	LEU	142	24.678	34.306	16.159	0.00	0.00
ATOM	2244	CD1	LEU	142	22.809	33.380	16.146	0.00	0.00
ATOM	2245	1HD1	LEU	142	22.784	32.963	16.103	0.00	0.00
ATOM	2246	2HD1	LEU	142	22.546	33.130	16.319	0.00	0.00
ATOM	2247	3HD1	LEU	142	22.507	33.153	15.962	0.00	0.00
ATOM	2248	CD2	LEU	142	23.384	35.420	14.957	0.00	0.00
ATOM	2249	1HD2	LEU	142	23.670	35.724	14.641	0.00	0.00
ATOM	2250	2HD2	LEU	142	23.217	35.314	14.477	0.00	0.00
ATOM	2251	3HD2	LEU	142	23.076	35.813	14.850	0.00	0.00
ATOM	2252	C	LEU	142	25.178	34.234	18.846	0.00	0.00
ATOM	2253	O	LEU	142	25.362	33.028	18.807	0.00	0.00
ATOM	2254	N	ALA	143	26.180	35.094	19.006	0.00	0.00
ATOM	2255	H	ALA	143	25.965	36.067	19.015	0.00	0.00
ATOM	2256	CA	ALA	143	27.577	34.708	19.157	0.00	0.00
ATOM	2257	HA	ALA	143	27.865	34.125	18.293	0.00	0.00
ATOM	2258	CB	ALA	143	28.435	35.971	19.182	0.00	0.00
ATOM	2259	HB1	ALA	143	28.555	36.346	19.012	0.00	0.00
ATOM	2260	HB2	ALA	143	28.574	36.343	19.382	0.00	0.00
ATOM	2261	HB3	ALA	143	28.818	36.146	19.178	0.00	0.00
ATOM	2262	C	ALA	143	27.802	33.824	20.389	0.00	0.00
ATOM	2263	O	ALA	143	28.440	32.788	20.303	0.00	0.00
ATOM	2264	N	LEU	144	27.216	34.180	21.526	0.00	0.00
ATOM	2265	H	LEU	144	26.747	35.059	21.552	0.00	0.00
ATOM	2266	CA	LEU	144	27.294	33.398	22.751	0.00	0.00
ATOM	2267	HA	LEU	144	28.335	33.158	22.911	0.00	0.00
ATOM	2268	CB	LEU	144	26.814	34.265	23.915	0.00	0.00
ATOM	2269	HB2	LEU	144	27.251	35.211	23.854	0.00	0.00
ATOM	2270	HB3	LEU	144	25.787	34.401	23.838	0.00	0.00
ATOM	2271	CG	LEU	144	27.101	33.729	25.273	0.00	0.00
ATOM	2272	HG	LEU	144	26.656	32.807	25.347	0.00	0.00
ATOM	2273	CD1	LEU	144	28.516	33.573	25.533	0.00	0.00
ATOM	2274	1HD1	LEU	144	28.854	33.603	25.709	0.00	0.00
ATOM	2275	2HD1	LEU	144	28.856	33.401	25.606	0.00	0.00
ATOM	2276	3HD1	LEU	144	28.866	33.579	25.485	0.00	0.00
ATOM	2277	CD2	LEU	144	26.556	34.624	26.339	0.00	0.00
ATOM	2278	1HD2	LEU	144	26.571	34.743	26.785	0.00	0.00
ATOM	2279	2HD2	LEU	144	26.193	34.738	26.551	0.00	0.00
ATOM	2280	3HD2	LEU	144	26.503	35.035	26.453	0.00	0.00
ATOM	2281	C	LEU	144	26.543	32.065	22.645	0.00	0.00
ATOM	2282	O	LEU	144	27.033	31.055	23.129	0.00	0.00
ATOM	2283	N	HIP	145	25.414	32.015	21.937	0.00	0.00
ATOM	2284	H	HIP	145	25.043	32.877	21.596	0.00	0.00
ATOM	2285	CA	HIP	145	24.651	30.786	21.704	0.00	0.00
ATOM	2286	HA	HIP	145	24.408	30.355	22.664	0.00	0.00
ATOM	2287	CB	HIP	145	23.340	31.130	20.990	0.00	0.00
ATOM	2288	HB2	HIP	145	22.820	31.857	21.575	0.00	0.00
ATOM	2289	HB3	HIP	145	23.551	31.578	20.046	0.00	0.00
ATOM	2290	CG	HIP	145	22.417	29.987	20.773	0.00	0.00
ATOM	2291	ND1	HIP	145	21.452	29.575	21.613	0.00	0.00
ATOM	2292	HD1	HIP	145	21.264	29.963	22.480	0.00	0.00
ATOM	2293	CE1	HIP	145	20.830	28.548	21.073	0.00	0.00
ATOM	2294	HE1	HIP	145	20.034	28.018	21.500	0.00	0.00
ATOM	2295	NE2	HIP	145	21.377	28.291	19.922	0.00	0.00
ATOM	2296	HE2	HIP	145	21.128	27.544	19.339	0.00	0.00
ATOM	2297	CD2	HIP	145	22.367	29.192	19.709	0.00	0.00
ATOM	2298	HD2	HIP	145	22.987	29.248	18.871	0.00	0.00
ATOM	2299	C	HIP	145	25.457	29.730	20.948	0.00	0.00
ATOM	2300	O	HIP	145	25.418	28.569	21.321	0.00	0.00
ATOM	2301	N	VAL	146	26.229	30.111	19.932	0.00	0.00
ATOM	2302	H	VAL	146	26.223	31.070	19.668	0.00	0.00
ATOM	2303	CA	VAL	146	27.105	29.165	19.213	0.00	0.00
ATOM	2304	HA	VAL	146	26.563	28.236	19.105	0.00	0.00
ATOM	2305	CB	VAL	146	27.426	29.607	17.777	0.00	0.00
ATOM	2306	HB	VAL	146	27.962	28.806	17.308	0.00	0.00
ATOM	2307	CG1	VAL	146	26.174	29.816	16.954	0.00	0.00
ATOM	2308	1HG1	VAL	146	25.632	29.453	17.035	0.00	0.00
ATOM	2309	2HG1	VAL	146	25.815	30.394	16.917	0.00	0.00

ATOM	2310	3HG1	VAL	146	26.171	29.744	16.295	0.00	0.00
ATOM	2311	CG2	VAL	146	28.301	30.836	17.648	0.00	0.00
ATOM	2312	1HG2	VAL	146	28.324	31.312	17.970	0.00	0.00
ATOM	2313	2HG2	VAL	146	28.895	30.880	17.647	0.00	0.00
ATOM	2314	3HG2	VAL	146	28.347	31.200	17.204	0.00	0.00
ATOM	2315	C	VAL	146	28.353	28.812	20.025	0.00	0.00
ATOM	2316	O	VAL	146	28.732	27.655	20.080	0.00	0.00
ATOM	2317	N	TYR	147	28.920	29.761	20.766	0.00	0.00
ATOM	2318	H	TYR	147	28.570	30.689	20.679	0.00	0.00
ATOM	2319	CA	TYR	147	30.051	29.550	21.677	0.00	0.00
ATOM	2320	HA	TYR	147	30.884	29.163	21.108	0.00	0.00
ATOM	2321	CB	TYR	147	30.446	30.909	22.245	0.00	0.00
ATOM	2322	HB2	TYR	147	30.545	31.599	21.435	0.00	0.00
ATOM	2323	HB3	TYR	147	29.654	31.278	22.860	0.00	0.00
ATOM	2324	CG	TYR	147	31.718	30.955	23.035	0.00	0.00
ATOM	2325	CD1	TYR	147	31.691	30.823	24.408	0.00	0.00
ATOM	2326	HD1	TYR	147	30.777	30.648	24.902	0.00	0.00
ATOM	2327	CE1	TYR	147	32.862	30.928	25.146	0.00	0.00
ATOM	2328	HE1	TYR	147	32.844	30.832	26.195	0.00	0.00
ATOM	2329	CZ	TYR	147	34.060	31.175	24.508	0.00	0.00
ATOM	2330	OH	TYR	147	35.182	31.306	25.206	0.00	0.00
ATOM	2331	HH	TYR	147	35.049	31.237	26.119	0.00	0.00
ATOM	2332	CE2	TYR	147	34.088	31.302	23.132	0.00	0.00
ATOM	2333	HE2	TYR	147	35.003	31.498	22.653	0.00	0.00
ATOM	2334	CD2	TYR	147	32.916	31.200	22.402	0.00	0.00
ATOM	2335	HD2	TYR	147	32.932	31.322	21.356	0.00	0.00
ATOM	2336	C	TYR	147	29.736	28.542	22.784	0.00	0.00
ATOM	2337	O	TYR	147	30.528	27.655	23.054	0.00	0.00
ATOM	2338	N	GLN	148	28.537	28.595	23.354	0.00	0.00
ATOM	2339	H	GLN	148	27.953	29.366	23.112	0.00	0.00
ATOM	2340	CA	GLN	148	28.017	27.643	24.337	0.00	0.00
ATOM	2341	HA	GLN	148	28.743	27.533	25.127	0.00	0.00
ATOM	2342	CB	GLN	148	26.733	28.203	24.942	0.00	0.00
ATOM	2343	HB2	GLN	148	26.106	28.569	24.153	0.00	0.00
ATOM	2344	HB3	GLN	148	26.204	27.425	25.456	0.00	0.00
ATOM	2345	CG	GLN	148	26.974	29.316	25.943	0.00	0.00
ATOM	2346	HG2	GLN	148	27.471	28.907	26.790	0.00	0.00
ATOM	2347	HG3	GLN	148	27.621	30.050	25.523	0.00	0.00
ATOM	2348	CD	GLN	148	25.715	30.010	26.394	0.00	0.00
ATOM	2349	OE1	GLN	148	24.727	30.045	25.816	0.00	0.00
ATOM	2350	NE2	GLN	148	25.707	30.602	27.442	0.00	0.00
ATOM	2351	1HE2	GLN	148	24.883	31.031	27.753	0.00	0.00
ATOM	2352	2HE2	GLN	148	26.499	30.574	27.943	0.00	0.00
ATOM	2353	C	GLN	148	27.772	26.239	23.774	0.00	0.00
ATOM	2354	O	GLN	148	27.686	25.305	24.508	0.00	0.00
ATOM	2355	N	HIP	149	27.692	26.068	22.477	0.00	0.00
ATOM	2356	H	HIP	149	27.759	26.877	21.940	0.00	0.00
ATOM	2357	CA	HIP	149	27.620	24.779	21.780	0.00	0.00
ATOM	2358	HA	HIP	149	27.351	24.017	22.491	0.00	0.00
ATOM	2359	CB	HIP	149	26.505	24.822	20.743	0.00	0.00
ATOM	2360	HB2	HIP	149	26.643	25.649	20.076	0.00	0.00
ATOM	2361	HB3	HIP	149	26.551	23.933	20.154	0.00	0.00
ATOM	2362	CG	HIP	149	25.148	24.895	21.351	0.00	0.00
ATOM	2363	ND1	HIP	149	24.396	25.984	21.558	0.00	0.00
ATOM	2364	HD1	HIP	149	24.660	26.873	21.324	0.00	0.00
ATOM	2365	CE1	HIP	149	23.276	25.648	22.150	0.00	0.00
ATOM	2366	HE1	HIP	149	22.512	26.288	22.474	0.00	0.00
ATOM	2367	NE2	HIP	149	23.296	24.381	22.324	0.00	0.00
ATOM	2368	HE2	HIP	149	22.593	23.879	22.750	0.00	0.00
ATOM	2369	CD2	HIP	149	24.464	23.890	21.831	0.00	0.00
ATOM	2370	HD2	HIP	149	24.785	22.911	21.836	0.00	0.00
ATOM	2371	C	HIP	149	28.966	24.314	21.224	0.00	0.00
ATOM	2372	O	HIP	149	29.012	23.491	20.355	0.00	0.00
ATOM	2373	N	GLY	150	30.068	24.848	21.709	0.00	0.00
ATOM	2374	H	GLY	150	29.967	25.515	22.412	0.00	0.00
ATOM	2375	CA	GLY	150	31.424	24.469	21.337	0.00	0.00
ATOM	2376	HA2	GLY	150	32.087	24.795	22.102	0.00	0.00
ATOM	2377	HA3	GLY	150	31.485	23.408	21.292	0.00	0.00
ATOM	2378	C	GLY	150	31.943	25.026	20.025	0.00	0.00
ATOM	2379	O	GLY	150	33.039	24.704	19.638	0.00	0.00
ATOM	2380	N	LEU	151	31.198	25.872	19.341	0.00	0.00
ATOM	2381	H	LEU	151	30.321	26.127	19.720	0.00	0.00
ATOM	2382	CA	LEU	151	31.560	26.464	18.059	0.00	0.00
ATOM	2383	HA	LEU	151	32.212	25.781	17.540	0.00	0.00
ATOM	2384	CB	LEU	151	30.303	26.641	17.196	0.00	0.00
ATOM	2385	HB2	LEU	151	29.649	27.308	17.690	0.00	0.00
ATOM	2386	HB3	LEU	151	30.577	27.107	16.287	0.00	0.00
ATOM	2387	CG	LEU	151	29.538	25.388	16.854	0.00	0.00
ATOM	2388	HG	LEU	151	29.431	24.987	17.464	0.00	0.00
ATOM	2389	CD1	LEU	151	28.460	25.414	16.400	0.00	0.00
ATOM	2390	1HD1	LEU	151	28.334	25.738	16.389	0.00	0.00
ATOM	2391	2HD1	LEU	151	28.166	25.236	16.035	0.00	0.00
ATOM	2392	3HD1	LEU	151	28.080	25.271	16.449	0.00	0.00
ATOM	2393	CD2	LEU	151	29.925	24.636	16.104	0.00	0.00
ATOM	2394	1HD2	LEU	151	29.875	24.266	15.867	0.00	0.00
ATOM	2395	2HD2	LEU	151	29.991	24.639	15.909	0.00	0.00
ATOM	2396	3HD2	LEU	151	30.187	24.441	15.992	0.00	0.00
ATOM	2397	C	LEU	151	32.372	27.746	18.251	0.00	0.00
ATOM	2398	O	LEU	151	32.056	28.794	17.740	0.00	0.00
ATOM	2399	N	THR	152	33.422	27.675	19.047	0.00	0.00
ATOM	2400	H	THR	152	33.657	26.779	19.394	0.00	0.00
ATOM	2401	CA	THR	152	34.233	28.810	19.478	0.00	0.00
ATOM	2402	HA	THR	152	33.565	29.565	19.852	0.00	0.00
ATOM	2403	CB	THR	152	35.163	28.411	20.613	0.00	0.00
ATOM	2404	HB	THR	152	35.744	29.259	20.904	0.00	0.00
ATOM	2405	CG2	THR	152	34.423	27.902	21.823	0.00	0.00
ATOM	2406	1HG2	THR	152	34.241	27.736	22.099	0.00	0.00
ATOM	2407	2HG2	THR	152	34.293	27.796	22.135	0.00	0.00
ATOM	2408	3HG2	THR	152	34.201	27.817	22.128	0.00	0.00
ATOM	2409	OG1	THR	152	36.018	27.401	20.218	0.00	0.00
ATOM	2410	HG1	THR	152	36.635	27.345	20.811	0.00	0.00
ATOM	2411	C	THR	152	35.026	29.461	18.363	0.00	0.00
ATOM	2412	O	THR	152	35.318	30.633	18.445	0.00	0.00
ATOM	2413	N	GLY	153	35.336	28.742	17.301	0.00	0.00
ATOM	2414	H	GLY	153	35.101	27.786	17.317	0.00	0.00

ATOM	2415	CA	GLY	153	36.000	29.235	16.114	0.00	0.00
ATOM	2416	HA2	GLY	153	36.789	29.893	16.396	0.00	0.00
ATOM	2417	HA3	GLY	153	36.439	28.404	15.614	0.00	0.00
ATOM	2418	C	GLY	153	35.106	29.952	15.115	0.00	0.00
ATOM	2419	O	GLY	153	35.591	30.436	14.154	0.00	0.00
ATOM	2420	N	PHE	154	33.819	30.035	15.329	0.00	0.00
ATOM	2421	H	PHE	154	33.489	29.613	16.143	0.00	0.00
ATOM	2422	CA	PHE	154	32.843	30.634	14.418	0.00	0.00
ATOM	2423	HA	PHE	154	33.272	30.681	13.438	0.00	0.00
ATOM	2424	CB	PHE	154	31.612	29.741	14.304	0.00	0.00
ATOM	2425	HB2	PHE	154	31.251	29.498	15.276	0.00	0.00
ATOM	2426	HB3	PHE	154	30.836	30.290	13.819	0.00	0.00
ATOM	2427	CG	PHE	154	31.813	28.476	13.542	0.00	0.00
ATOM	2428	CD1	PHE	154	32.243	27.618	13.631	0.00	0.00
ATOM	2429	HD1	PHE	154	32.437	27.847	14.243	0.00	0.00
ATOM	2430	CE1	PHE	154	32.409	26.453	12.930	0.00	0.00
ATOM	2431	HE1	PHE	154	32.724	25.805	13.007	0.00	0.00
ATOM	2432	CZ	PHE	154	32.148	26.135	12.138	0.00	0.00
ATOM	2433	HZ	PHE	154	32.270	25.245	11.598	0.00	0.00
ATOM	2434	CE2	PHE	154	31.725	26.983	12.037	0.00	0.00
ATOM	2435	HE2	PHE	154	31.537	26.738	11.432	0.00	0.00
ATOM	2436	CD2	PHE	154	31.562	28.151	12.732	0.00	0.00
ATOM	2437	HD2	PHE	154	31.242	28.797	12.649	0.00	0.00
ATOM	2438	C	PHE	154	32.470	32.077	14.754	0.00	0.00
ATOM	2439	O	PHE	154	31.619	32.652	14.100	0.00	0.00
ATOM	2440	N	LEU	155	33.108	32.706	15.732	0.00	0.00
ATOM	2441	H	LEU	155	33.839	32.230	16.195	0.00	0.00
ATOM	2442	CA	LEU	155	32.794	34.073	16.146	0.00	0.00
ATOM	2443	HA	LEU	155	31.734	34.135	16.336	0.00	0.00
ATOM	2444	CB	LEU	155	33.539	34.402	17.440	0.00	0.00
ATOM	2445	HB2	LEU	155	34.583	34.293	17.273	0.00	0.00
ATOM	2446	HB3	LEU	155	33.364	35.430	17.663	0.00	0.00
ATOM	2447	CG	LEU	155	33.166	33.581	18.668	0.00	0.00
ATOM	2448	HG	LEU	155	33.343	32.573	18.481	0.00	0.00
ATOM	2449	CD1	LEU	155	34.000	33.975	19.821	0.00	0.00
ATOM	2450	1HD1	LEU	155	34.373	33.841	20.046	0.00	0.00
ATOM	2451	2HD1	LEU	155	34.259	34.316	19.988	0.00	0.00
ATOM	2452	3HD1	LEU	155	33.991	34.041	20.268	0.00	0.00
ATOM	2453	CD2	LEU	155	31.757	33.741	19.050	0.00	0.00
ATOM	2454	1HD2	LEU	155	31.388	33.974	18.880	0.00	0.00
ATOM	2455	2HD2	LEU	155	31.350	33.453	19.111	0.00	0.00
ATOM	2456	3HD2	LEU	155	31.506	33.893	19.448	0.00	0.00
ATOM	2457	C	LEU	155	33.077	35.115	15.060	0.00	0.00
ATOM	2458	O	LEU	155	32.329	36.070	14.934	0.00	0.00
ATOM	2459	N	GLY	156	34.096	34.912	14.236	0.00	0.00
ATOM	2460	H	GLY	156	34.690	34.142	14.426	0.00	0.00
ATOM	2461	CA	GLY	156	34.378	35.714	13.047	0.00	0.00
ATOM	2462	HA2	GLY	156	34.457	36.749	13.318	0.00	0.00
ATOM	2463	HA3	GLY	156	35.319	35.400	12.637	0.00	0.00
ATOM	2464	C	GLY	156	33.321	35.562	11.957	0.00	0.00
ATOM	2465	O	GLY	156	32.913	36.543	11.360	0.00	0.00
ATOM	2466	N	GLN	157	32.812	34.355	11.744	0.00	0.00
ATOM	2467	H	GLN	157	33.211	33.600	12.243	0.00	0.00
ATOM	2468	CA	GLN	157	31.723	34.079	10.811	0.00	0.00
ATOM	2469	HA	GLN	157	31.980	34.511	9.856	0.00	0.00
ATOM	2470	CB	GLN	157	31.582	32.568	10.632	0.00	0.00
ATOM	2471	HB2	GLN	157	32.549	32.145	10.503	0.00	0.00
ATOM	2472	HB3	GLN	157	31.141	32.140	11.500	0.00	0.00
ATOM	2473	CG	GLN	157	30.746	32.207	9.428	0.00	0.00
ATOM	2474	HG2	GLN	157	29.807	32.691	9.486	0.00	0.00
ATOM	2475	HG3	GLN	157	31.231	32.542	8.555	0.00	0.00
ATOM	2476	CD	GLN	157	30.492	30.732	9.320	0.00	0.00
ATOM	2477	OE1	GLN	157	29.664	30.182	9.839	0.00	0.00
ATOM	2478	NE2	GLN	157	31.185	30.041	8.666	0.00	0.00
ATOM	2479	1HE2	GLN	157	30.998	29.086	8.585	0.00	0.00
ATOM	2480	2HE2	GLN	157	31.870	30.472	8.244	0.00	0.00
ATOM	2481	C	GLN	157	30.409	34.725	11.256	0.00	0.00
ATOM	2482	O	GLN	157	29.746	35.356	10.451	0.00	0.00
ATOM	2483	N	VAL	158	30.066	34.649	12.537	0.00	0.00
ATOM	2484	H	VAL	158	30.617	34.073	13.134	0.00	0.00
ATOM	2485	CA	VAL	158	28.909	35.352	13.114	0.00	0.00
ATOM	2486	HA	VAL	158	28.038	35.099	12.527	0.00	0.00
ATOM	2487	CB	VAL	158	28.647	34.919	14.563	0.00	0.00
ATOM	2488	HB	VAL	158	29.533	35.082	15.139	0.00	0.00
ATOM	2489	CG1	VAL	158	27.520	35.696	15.200	0.00	0.00
ATOM	2490	1HG1	VAL	158	27.453	35.793	15.796	0.00	0.00
ATOM	2491	2HG1	VAL	158	27.377	36.285	15.104	0.00	0.00
ATOM	2492	3HG1	VAL	158	26.908	35.591	15.184	0.00	0.00
ATOM	2493	CG2	VAL	158	28.285	33.452	14.661	0.00	0.00
ATOM	2494	1HG2	VAL	158	28.195	33.114	14.785	0.00	0.00
ATOM	2495	2HG2	VAL	158	28.115	33.102	14.643	0.00	0.00
ATOM	2496	3HG2	VAL	158	28.279	33.053	14.656	0.00	0.00
ATOM	2497	C	VAL	158	29.071	36.863	13.022	0.00	0.00
ATOM	2498	O	VAL	158	28.124	37.551	12.685	0.00	0.00
ATOM	2499	N	THR	159	30.273	37.385	13.233	0.00	0.00
ATOM	2500	H	THR	159	31.005	36.776	13.521	0.00	0.00
ATOM	2501	CA	THR	159	30.570	38.807	13.059	0.00	0.00
ATOM	2502	HA	THR	159	29.915	39.371	13.702	0.00	0.00
ATOM	2503	CB	THR	159	32.005	39.114	13.467	0.00	0.00
ATOM	2504	HB	THR	159	32.682	38.508	12.900	0.00	0.00
ATOM	2505	CG2	THR	159	32.363	40.562	13.246	0.00	0.00
ATOM	2506	1HG2	THR	159	32.279	40.967	13.218	0.00	0.00
ATOM	2507	2HG2	THR	159	32.575	40.903	13.334	0.00	0.00
ATOM	2508	3HG2	THR	159	32.517	40.876	13.011	0.00	0.00
ATOM	2509	OG1	THR	159	32.205	38.834	14.820	0.00	0.00
ATOM	2510	HG1	THR	159	32.242	37.912	14.927	0.00	0.00
ATOM	2511	C	THR	159	30.307	39.259	11.632	0.00	0.00
ATOM	2512	O	THR	159	29.551	40.190	11.423	0.00	0.00
ATOM	2513	N	ARG	160	30.847	38.567	10.630	0.00	0.00
ATOM	2514	H	ARG	160	31.441	37.804	10.854	0.00	0.00
ATOM	2515	CA	ARG	160	30.613	38.899	9.225	0.00	0.00
ATOM	2516	HA	ARG	160	30.832	39.941	9.094	0.00	0.00
ATOM	2517	CB	ARG	160	31.575	38.111	8.360	0.00	0.00
ATOM	2518	HB2	ARG	160	32.570	38.340	8.667	0.00	0.00
ATOM	2519	HB3	ARG	160	31.442	37.068	8.550	0.00	0.00

ATOM	2520	CG	ARG	160	31.455	38.339	6.856	0.00	0.00
ATOM	2521	HG2	ARG	160	32.258	37.823	6.383	0.00	0.00
ATOM	2522	HG3	ARG	160	30.549	37.893	6.514	0.00	0.00
ATOM	2523	CD	ARG	160	31.461	39.768	6.363	0.00	0.00
ATOM	2524	HD2	ARG	160	31.393	39.740	5.298	0.00	0.00
ATOM	2525	HD3	ARG	160	30.602	40.276	6.731	0.00	0.00
ATOM	2526	NE	ARG	160	32.650	40.509	6.736	0.00	0.00
ATOM	2527	HE	ARG	160	33.297	40.071	7.308	0.00	0.00
ATOM	2528	CZ	ARG	160	32.988	41.691	6.348	0.00	0.00
ATOM	2529	NH1	ARG	160	34.067	42.217	6.767	0.00	0.00
ATOM	2530	1HH1	ARG	160	34.643	41.716	7.374	0.00	0.00
ATOM	2531	2HH1	ARG	160	34.357	43.084	6.432	0.00	0.00
ATOM	2532	NH2	ARG	160	32.284	42.382	5.566	0.00	0.00
ATOM	2533	1HH2	ARG	160	31.464	42.015	5.165	0.00	0.00
ATOM	2534	2HH2	ARG	160	32.606	43.265	5.291	0.00	0.00
ATOM	2535	C	ARG	160	29.154	38.741	8.824	0.00	0.00
ATOM	2536	O	ARG	160	28.668	39.560	8.074	0.00	0.00
ATOM	2537	N	PHE	161	28.427	37.783	9.374	0.00	0.00
ATOM	2538	H	PHE	161	28.884	37.133	9.970	0.00	0.00
ATOM	2539	CA	PHE	161	26.998	37.622	9.143	0.00	0.00
ATOM	2540	HA	PHE	161	26.832	37.535	8.081	0.00	0.00
ATOM	2541	CB	PHE	161	26.542	36.320	9.801	0.00	0.00
ATOM	2542	HB2	PHE	161	27.076	35.506	9.377	0.00	0.00
ATOM	2543	HB3	PHE	161	26.786	36.344	10.832	0.00	0.00
ATOM	2544	CG	PHE	161	25.094	36.020	9.671	0.00	0.00
ATOM	2545	CD1	PHE	161	24.246	36.264	10.707	0.00	0.00
ATOM	2546	HD1	PHE	161	24.619	36.663	11.590	0.00	0.00
ATOM	2547	CE1	PHE	161	22.906	35.981	10.590	0.00	0.00
ATOM	2548	HE1	PHE	161	22.267	36.161	11.388	0.00	0.00
ATOM	2549	CZ	PHE	161	22.414	35.467	9.432	0.00	0.00
ATOM	2550	HZ	PHE	161	21.393	35.245	9.340	0.00	0.00
ATOM	2551	CE2	PHE	161	23.258	35.216	8.401	0.00	0.00
ATOM	2552	HE2	PHE	161	22.884	34.815	7.519	0.00	0.00
ATOM	2553	CD2	PHE	161	24.597	35.489	8.524	0.00	0.00
ATOM	2554	HD2	PHE	161	25.245	35.286	7.735	0.00	0.00
ATOM	2555	C	PHE	161	26.177	38.835	9.610	0.00	0.00
ATOM	2556	O	PHE	161	25.293	39.282	8.904	0.00	0.00
ATOM	2557	N	VAL	162	26.486	39.404	10.768	0.00	0.00
ATOM	2558	H	VAL	162	27.198	38.974	11.312	0.00	0.00
ATOM	2559	CA	VAL	162	25.821	40.608	11.277	0.00	0.00
ATOM	2560	HA	VAL	162	24.768	40.519	11.081	0.00	0.00
ATOM	2561	CB	VAL	162	25.986	40.732	12.792	0.00	0.00
ATOM	2562	HB	VAL	162	27.013	40.752	13.029	0.00	0.00
ATOM	2563	CG1	VAL	162	25.360	41.981	13.328	0.00	0.00
ATOM	2564	1HG1	VAL	162	25.526	42.330	13.696	0.00	0.00
ATOM	2565	2HG1	VAL	162	25.213	42.434	13.097	0.00	0.00
ATOM	2566	3HG1	VAL	162	24.896	42.103	13.592	0.00	0.00
ATOM	2567	CG2	VAL	162	25.364	39.572	13.518	0.00	0.00
ATOM	2568	1HG2	VAL	162	25.190	39.210	13.584	0.00	0.00
ATOM	2569	2HG2	VAL	162	25.334	39.255	13.775	0.00	0.00
ATOM	2570	3HG2	VAL	162	25.122	39.391	13.746	0.00	0.00
ATOM	2571	C	VAL	162	26.273	41.869	10.542	0.00	0.00
ATOM	2572	O	VAL	162	25.447	42.711	10.234	0.00	0.00
ATOM	2573	N	VAL	163	27.549	41.989	10.187	0.00	0.00
ATOM	2574	H	VAL	163	28.175	41.275	10.489	0.00	0.00
ATOM	2575	CA	VAL	163	28.077	43.108	9.393	0.00	0.00
ATOM	2576	HA	VAL	163	27.775	44.030	9.862	0.00	0.00
ATOM	2577	CB	VAL	163	29.601	43.072	9.384	0.00	0.00
ATOM	2578	HB	VAL	163	29.925	42.090	9.102	0.00	0.00
ATOM	2579	CG1	VAL	163	30.220	44.062	8.426	0.00	0.00
ATOM	2580	1HG1	VAL	163	29.860	45.041	8.612	0.00	0.00
ATOM	2581	2HG1	VAL	163	31.276	44.054	8.534	0.00	0.00
ATOM	2582	3HG1	VAL	163	30.004	43.807	7.423	0.00	0.00
ATOM	2583	CG2	VAL	163	30.153	43.363	10.760	0.00	0.00
ATOM	2584	1HG2	VAL	163	30.538	43.353	11.029	0.00	0.00
ATOM	2585	2HG2	VAL	163	30.221	43.679	11.078	0.00	0.00
ATOM	2586	3HG2	VAL	163	30.127	43.248	11.191	0.00	0.00
ATOM	2587	C	VAL	163	27.499	43.137	7.979	0.00	0.00
ATOM	2588	O	VAL	163	27.169	44.200	7.479	0.00	0.00
ATOM	2589	N	ASP	164	27.291	41.987	7.355	0.00	0.00
ATOM	2590	H	ASP	164	27.619	41.148	7.783	0.00	0.00
ATOM	2591	CA	ASP	164	26.650	41.876	6.051	0.00	0.00
ATOM	2592	HA	ASP	164	27.154	42.542	5.370	0.00	0.00
ATOM	2593	CB	ASP	164	26.811	40.456	5.534	0.00	0.00
ATOM	2594	HB2	ASP	164	27.837	40.167	5.591	0.00	0.00
ATOM	2595	HB3	ASP	164	26.249	39.778	6.134	0.00	0.00
ATOM	2596	CG	ASP	164	26.368	40.343	4.101	0.00	0.00
ATOM	2597	OD1	ASP	164	25.241	40.095	3.835	0.00	0.00
ATOM	2598	OD2	ASP	164	27.139	40.546	3.238	0.00	0.00
ATOM	2599	C	ASP	164	25.182	42.300	6.090	0.00	0.00
ATOM	2600	O	ASP	164	24.725	42.992	5.193	0.00	0.00
ATOM	2601	N	PHE	165	24.464	41.968	7.158	0.00	0.00
ATOM	2602	H	PHE	165	24.895	41.394	7.846	0.00	0.00
ATOM	2603	CA	PHE	165	23.114	42.456	7.411	0.00	0.00
ATOM	2604	HA	PHE	165	22.510	42.246	6.540	0.00	0.00
ATOM	2605	CB	PHE	165	22.511	41.703	8.598	0.00	0.00
ATOM	2606	HB2	PHE	165	22.605	40.656	8.418	0.00	0.00
ATOM	2607	HB3	PHE	165	23.065	41.910	9.488	0.00	0.00
ATOM	2608	CG	PHE	165	21.062	42.000	8.867	0.00	0.00
ATOM	2609	CD1	PHE	165	20.081	41.205	8.329	0.00	0.00
ATOM	2610	HD1	PHE	165	20.351	40.386	7.732	0.00	0.00
ATOM	2611	CE1	PHE	165	18.749	41.493	8.551	0.00	0.00
ATOM	2612	HE1	PHE	165	18.003	40.885	8.139	0.00	0.00
ATOM	2613	CZ	PHE	165	18.392	42.574	9.315	0.00	0.00
ATOM	2614	HZ	PHE	165	17.375	42.807	9.471	0.00	0.00
ATOM	2615	CE2	PHE	165	19.360	43.359	9.866	0.00	0.00
ATOM	2616	HE2	PHE	165	19.082	44.185	10.446	0.00	0.00
ATOM	2617	CD2	PHE	165	20.693	43.072	9.652	0.00	0.00
ATOM	2618	HD2	PHE	165	21.433	43.677	10.079	0.00	0.00
ATOM	2619	C	PHE	165	23.096	43.976	7.614	0.00	0.00
ATOM	2620	O	PHE	165	22.264	44.658	7.042	0.00	0.00
ATOM	2621	N	MET	166	24.041	44.523	8.380	0.00	0.00
ATOM	2622	H	MET	166	24.687	43.908	8.815	0.00	0.00
ATOM	2623	CA	MET	166	24.188	45.963	8.584	0.00	0.00
ATOM	2624	HA	MET	166	23.260	46.341	8.976	0.00	0.00

ATOM	2625	CB	MET	166	25.290	46.248	9.599	0.00	0.00
ATOM	2626	HB2	MET	166	25.834	45.682	9.787	0.00	0.00
ATOM	2627	HB3	MET	166	25.748	46.804	9.364	0.00	0.00
ATOM	2628	CG	MET	166	25.090	46.570	10.692	0.00	0.00
ATOM	2629	HG2	MET	166	24.889	46.840	10.808	0.00	0.00
ATOM	2630	HG3	MET	166	24.934	46.228	10.543	0.00	0.00
ATOM	2631	SD	MET	166	25.422	47.060	12.044	0.00	0.00
ATOM	2632	CE	MET	166	25.615	47.378	12.861	0.00	0.00
ATOM	2633	HE1	MET	166	25.571	47.458	13.101	0.00	0.00
ATOM	2634	HE2	MET	166	25.733	47.333	12.960	0.00	0.00
ATOM	2635	HE3	MET	166	25.676	47.540	13.019	0.00	0.00
ATOM	2636	C	MET	166	24.446	46.712	7.278	0.00	0.00
ATOM	2637	O	MET	166	23.855	47.752	7.048	0.00	0.00
ATOM	2638	N	LEU	167	25.272	46.166	6.397	0.00	0.00
ATOM	2639	H	LEU	167	25.763	45.344	6.668	0.00	0.00
ATOM	2640	CA	LEU	167	25.534	46.704	5.065	0.00	0.00
ATOM	2641	HA	LEU	167	25.789	47.748	5.183	0.00	0.00
ATOM	2642	CB	LEU	167	26.748	45.982	4.472	0.00	0.00
ATOM	2643	HB2	LEU	167	27.576	46.112	5.139	0.00	0.00
ATOM	2644	HB3	LEU	167	26.528	44.935	4.421	0.00	0.00
ATOM	2645	CG	LEU	167	27.180	46.438	3.084	0.00	0.00
ATOM	2646	HG	LEU	167	26.390	46.274	2.399	0.00	0.00
ATOM	2647	CD1	LEU	167	27.545	47.887	3.026	0.00	0.00
ATOM	2648	1HD1	LEU	167	27.520	48.270	3.045	0.00	0.00
ATOM	2649	2HD1	LEU	167	27.721	48.238	3.081	0.00	0.00
ATOM	2650	3HD1	LEU	167	27.649	48.223	2.893	0.00	0.00
ATOM	2651	CD2	LEU	167	28.357	45.641	2.629	0.00	0.00
ATOM	2652	1HD2	LEU	167	28.994	45.748	2.958	0.00	0.00
ATOM	2653	2HD2	LEU	167	28.330	44.904	2.661	0.00	0.00
ATOM	2654	3HD2	LEU	167	28.597	45.683	1.926	0.00	0.00
ATOM	2655	C	LEU	167	24.295	46.638	4.167	0.00	0.00
ATOM	2656	O	LEU	167	23.919	47.632	3.609	0.00	0.00
ATOM	2657	N	HIP	168	23.627	45.506	4.065	0.00	0.00
ATOM	2658	H	HIP	168	23.977	44.733	4.571	0.00	0.00
ATOM	2659	CA	HIP	168	22.520	45.276	3.128	0.00	0.00
ATOM	2660	HA	HIP	168	22.706	45.862	2.246	0.00	0.00
ATOM	2661	CB	HIP	168	22.525	43.822	2.685	0.00	0.00
ATOM	2662	HB2	HIP	168	22.443	43.178	3.535	0.00	0.00
ATOM	2663	HB3	HIP	168	21.675	43.649	2.065	0.00	0.00
ATOM	2664	CG	HIP	168	23.732	43.458	1.903	0.00	0.00
ATOM	2665	ND1	HIP	168	24.681	42.549	2.222	0.00	0.00
ATOM	2666	HD1	HIP	168	24.682	41.976	3.007	0.00	0.00
ATOM	2667	CE1	HIP	168	25.586	42.522	1.283	0.00	0.00
ATOM	2668	HE1	HIP	168	26.429	41.891	1.256	0.00	0.00
ATOM	2669	NE2	HIP	168	25.245	43.391	0.381	0.00	0.00
ATOM	2670	HE2	HIP	168	25.736	43.562	-0.434	0.00	0.00
ATOM	2671	CD2	HIP	168	24.084	43.984	0.752	0.00	0.00
ATOM	2672	HD2	HIP	168	23.552	44.723	0.241	0.00	0.00
ATOM	2673	C	HIP	168	21.152	45.757	3.602	0.00	0.00
ATOM	2674	O	HIP	168	20.243	45.677	2.880	0.00	0.00
ATOM	2675	N	HIP	169	21.004	46.294	4.780	0.00	0.00
ATOM	2676	H	HIP	169	21.783	46.256	5.337	0.00	0.00
ATOM	2677	CA	HIP	169	19.796	46.962	5.291	0.00	0.00
ATOM	2678	HA	HIP	169	19.073	46.991	4.491	0.00	0.00
ATOM	2679	CB	HIP	169	19.157	46.131	6.411	0.00	0.00
ATOM	2680	HB2	HIP	169	19.880	45.924	7.173	0.00	0.00
ATOM	2681	HB3	HIP	169	18.365	46.689	6.870	0.00	0.00
ATOM	2682	CG	HIP	169	18.575	44.839	5.927	0.00	0.00
ATOM	2683	ND1	HIP	169	17.386	44.674	5.348	0.00	0.00
ATOM	2684	HD1	HIP	169	16.756	45.387	5.185	0.00	0.00
ATOM	2685	CE1	HIP	169	17.238	43.401	5.010	0.00	0.00
ATOM	2686	HE1	HIP	169	16.417	42.978	4.526	0.00	0.00
ATOM	2687	NE2	HIP	169	18.299	42.754	5.352	0.00	0.00
ATOM	2688	HE2	HIP	169	18.452	41.798	5.196	0.00	0.00
ATOM	2689	CD2	HIP	169	19.144	43.641	5.928	0.00	0.00
ATOM	2690	HD2	HIP	169	20.079	43.432	6.305	0.00	0.00
ATOM	2691	C	HIP	169	20.017	48.438	5.640	0.00	0.00
ATOM	2692	O	HIP	169	19.383	48.964	6.530	0.00	0.00
ATOM	2693	N	CYS	170	20.924	49.116	4.946	0.00	0.00
ATOM	2694	H	CYS	170	21.358	48.641	4.199	0.00	0.00
ATOM	2695	CA	CYS	170	21.221	50.542	5.077	0.00	0.00
ATOM	2696	HA	CYS	170	22.061	50.727	4.436	0.00	0.00
ATOM	2697	CB	CYS	170	20.089	51.368	4.491	0.00	0.00
ATOM	2698	HB2	CYS	170	19.234	51.133	4.847	0.00	0.00
ATOM	2699	HB3	CYS	170	20.210	52.285	4.686	0.00	0.00
ATOM	2700	SG	CYS	170	19.959	51.242	2.900	0.00	0.00
ATOM	2701	HG	CYS	170	19.574	51.403	2.745	0.00	0.00
ATOM	2702	C	CYS	170	21.685	51.024	6.459	0.00	0.00
ATOM	2703	O	CYS	170	21.700	52.206	6.711	0.00	0.00
ATOM	2704	N	ILE	171	22.098	50.146	7.361	0.00	0.00
ATOM	2705	H	ILE	171	22.139	49.206	7.097	0.00	0.00
ATOM	2706	CA	ILE	171	22.501	50.503	8.727	0.00	0.00
ATOM	2707	HA	ILE	171	21.859	51.303	9.070	0.00	0.00
ATOM	2708	CB	ILE	171	22.318	49.320	9.700	0.00	0.00
ATOM	2709	HB	ILE	171	23.045	48.581	9.475	0.00	0.00
ATOM	2710	CG2	ILE	171	22.571	49.759	11.116	0.00	0.00
ATOM	2711	1HG2	ILE	171	22.337	50.053	11.392	0.00	0.00
ATOM	2712	2HG2	ILE	171	22.610	49.523	11.595	0.00	0.00
ATOM	2713	3HG2	ILE	171	22.963	50.005	11.419	0.00	0.00
ATOM	2714	CG1	ILE	171	20.955	48.680	9.587	0.00	0.00
ATOM	2715	2HG1	ILE	171	20.287	49.257	9.900	0.00	0.00
ATOM	2716	3HG1	ILE	171	20.780	48.524	8.695	0.00	0.00
ATOM	2717	CD1	ILE	171	20.665	47.444	10.215	0.00	0.00
ATOM	2718	1HD1	ILE	171	20.569	47.066	10.132	0.00	0.00
ATOM	2719	2HD1	ILE	171	20.819	47.135	10.480	0.00	0.00
ATOM	2720	3HD1	ILE	171	20.368	47.231	10.477	0.00	0.00
ATOM	2721	C	ILE	171	23.927	51.059	8.752	0.00	0.00
ATOM	2722	O	ILE	171	24.190	52.028	9.438	0.00	0.00
ATOM	2723	N	ALA	172	24.839	50.524	7.944	0.00	0.00
ATOM	2724	H	ALA	172	24.579	49.738	7.393	0.00	0.00
ATOM	2725	CA	ALA	172	26.174	51.090	7.780	0.00	0.00
ATOM	2726	HA	ALA	172	26.611	51.224	8.758	0.00	0.00
ATOM	2727	CB	ALA	172	27.059	50.108	7.026	0.00	0.00
ATOM	2728	HB1	ALA	172	27.282	49.813	6.910	0.00	0.00
ATOM	2729	HB2	ALA	172	27.204	49.874	6.787	0.00	0.00

ATOM	2730	HB3	ALA	172	27.356	49.935	6.835	0.00	0.00
ATOM	2731	C	ALA	172	26.125	52.474	7.110	0.00	0.00
ATOM	2732	O	ALA	172	26.853	53.368	7.504	0.00	0.00
ATOM	2733	N	ARG	173	25.202	52.700	6.179	0.00	0.00
ATOM	2734	H	ARG	173	24.693	51.908	5.857	0.00	0.00
ATOM	2735	CA	ARG	173	24.873	54.013	5.607	0.00	0.00
ATOM	2736	HA	ARG	173	25.778	54.455	5.218	0.00	0.00
ATOM	2737	CB	ARG	173	23.884	53.825	4.453	0.00	0.00
ATOM	2738	HB2	ARG	173	24.216	53.017	3.859	0.00	0.00
ATOM	2739	HB3	ARG	173	22.923	53.576	4.817	0.00	0.00
ATOM	2740	CG	ARG	173	23.755	55.027	3.555	0.00	0.00
ATOM	2741	HG2	ARG	173	23.443	55.852	4.129	0.00	0.00
ATOM	2742	HG3	ARG	173	24.699	55.246	3.151	0.00	0.00
ATOM	2743	CD	ARG	173	22.760	54.828	2.429	0.00	0.00
ATOM	2744	HD2	ARG	173	21.827	54.597	2.838	0.00	0.00
ATOM	2745	HD3	ARG	173	22.660	55.729	1.896	0.00	0.00
ATOM	2746	NE	ARG	173	23.147	53.810	1.513	0.00	0.00
ATOM	2747	HE	ARG	173	23.966	53.319	1.621	0.00	0.00
ATOM	2748	CZ	ARG	173	22.533	53.441	0.539	0.00	0.00
ATOM	2749	NH1	ARG	173	21.439	53.937	0.236	0.00	0.00
ATOM	2750	1HH1	ARG	173	21.007	54.618	0.764	0.00	0.00
ATOM	2751	2HH1	ARG	173	21.030	53.615	-0.515	0.00	0.00
ATOM	2752	NH2	ARG	173	23.032	52.528	-0.159	0.00	0.00
ATOM	2753	1HH2	ARG	173	23.893	52.157	0.046	0.00	0.00
ATOM	2754	2HH2	ARG	173	22.583	52.231	-0.904	0.00	0.00
ATOM	2755	C	ARG	173	24.340	54.988	6.653	0.00	0.00
ATOM	2756	O	ARG	173	24.768	56.125	6.676	0.00	0.00
ATOM	2757	N	TRP	174	23.489	54.543	7.567	0.00	0.00
ATOM	2758	H	TRP	174	23.156	53.612	7.473	0.00	0.00
ATOM	2759	CA	TRP	174	22.964	55.362	8.660	0.00	0.00
ATOM	2760	HA	TRP	174	22.539	56.260	8.237	0.00	0.00
ATOM	2761	CB	TRP	174	21.831	54.616	9.354	0.00	0.00
ATOM	2762	HB2	TRP	174	21.128	54.292	8.610	0.00	0.00
ATOM	2763	HB3	TRP	174	22.218	53.736	9.830	0.00	0.00
ATOM	2764	CG	TRP	174	21.082	55.399	10.369	0.00	0.00
ATOM	2765	CD1	TRP	174	20.080	56.239	10.110	0.00	0.00
ATOM	2766	HD1	TRP	174	19.696	56.432	9.139	0.00	0.00
ATOM	2767	NE1	TRP	174	19.611	56.785	11.277	0.00	0.00
ATOM	2768	HE1	TRP	174	18.862	57.427	11.309	0.00	0.00
ATOM	2769	CE2	TRP	174	20.297	56.327	12.352	0.00	0.00
ATOM	2770	CZ2	TRP	174	20.213	56.589	13.709	0.00	0.00
ATOM	2771	HZ2	TRP	174	19.501	57.282	14.082	0.00	0.00
ATOM	2772	CH2	TRP	174	21.076	55.939	14.576	0.00	0.00
ATOM	2773	HH2	TRP	174	21.033	56.144	15.617	0.00	0.00
ATOM	2774	CZ3	TRP	174	22.006	55.038	14.073	0.00	0.00
ATOM	2775	HZ3	TRP	174	22.671	54.549	14.734	0.00	0.00
ATOM	2776	CE3	TRP	174	22.081	54.784	12.706	0.00	0.00
ATOM	2777	HE3	TRP	174	22.794	54.093	12.326	0.00	0.00
ATOM	2778	CD2	TRP	174	21.239	55.424	11.808	0.00	0.00
ATOM	2779	C	TRP	174	24.055	55.795	9.641	0.00	0.00
ATOM	2780	O	TRP	174	24.088	56.946	10.035	0.00	0.00
ATOM	2781	N	ILE	175	24.997	54.915	9.975	0.00	0.00
ATOM	2782	H	ILE	175	24.893	53.979	9.650	0.00	0.00
ATOM	2783	CA	ILE	175	26.173	55.256	10.785	0.00	0.00
ATOM	2784	HA	ILE	175	25.836	55.796	11.658	0.00	0.00
ATOM	2785	CB	ILE	175	26.890	53.977	11.271	0.00	0.00
ATOM	2786	HB	ILE	175	27.080	53.364	10.411	0.00	0.00
ATOM	2787	CG2	ILE	175	28.237	54.269	11.914	0.00	0.00
ATOM	2788	1HG2	ILE	175	28.726	53.960	11.906	0.00	0.00
ATOM	2789	2HG2	ILE	175	28.628	54.701	11.845	0.00	0.00
ATOM	2790	3HG2	ILE	175	28.370	54.347	12.458	0.00	0.00
ATOM	2791	CG1	ILE	175	26.043	53.133	12.229	0.00	0.00
ATOM	2792	2HG1	ILE	175	25.109	52.894	11.768	0.00	0.00
ATOM	2793	3HG1	ILE	175	26.539	52.199	12.387	0.00	0.00
ATOM	2794	CD1	ILE	175	25.745	53.734	13.582	0.00	0.00
ATOM	2795	1HD1	ILE	175	25.534	54.044	13.790	0.00	0.00
ATOM	2796	2HD1	ILE	175	25.566	53.654	13.973	0.00	0.00
ATOM	2797	3HD1	ILE	175	25.912	53.917	13.972	0.00	0.00
ATOM	2798	C	ILE	175	27.114	56.210	10.044	0.00	0.00
ATOM	2799	O	ILE	175	27.612	57.145	10.647	0.00	0.00
ATOM	2800	N	ALA	176	27.309	56.050	8.738	0.00	0.00
ATOM	2801	H	ALA	176	26.904	55.259	8.290	0.00	0.00
ATOM	2802	CA	ALA	176	28.082	56.980	7.926	0.00	0.00
ATOM	2803	HA	ALA	176	29.066	57.067	8.358	0.00	0.00
ATOM	2804	CB	ALA	176	28.240	56.406	6.523	0.00	0.00
ATOM	2805	HB1	ALA	176	28.169	56.369	6.124	0.00	0.00
ATOM	2806	HB2	ALA	176	28.443	56.324	6.199	0.00	0.00
ATOM	2807	HB3	ALA	176	28.248	56.120	6.215	0.00	0.00
ATOM	2808	C	ALA	176	27.470	58.385	7.900	0.00	0.00
ATOM	2809	O	ALA	176	28.180	59.361	8.053	0.00	0.00
ATOM	2810	N	GLN	177	26.155	58.495	7.797	0.00	0.00
ATOM	2811	H	GLN	177	25.641	57.662	7.640	0.00	0.00
ATOM	2812	CA	GLN	177	25.415	59.753	7.869	0.00	0.00
ATOM	2813	HA	GLN	177	25.889	60.469	7.221	0.00	0.00
ATOM	2814	CB	GLN	177	23.996	59.535	7.363	0.00	0.00
ATOM	2815	HB2	GLN	177	23.572	58.692	7.860	0.00	0.00
ATOM	2816	HB3	GLN	177	23.405	60.394	7.601	0.00	0.00
ATOM	2817	CG	GLN	177	23.930	59.312	5.864	0.00	0.00
ATOM	2818	HG2	GLN	177	24.244	60.188	5.384	0.00	0.00
ATOM	2819	HG3	GLN	177	24.585	58.543	5.572	0.00	0.00
ATOM	2820	CD	GLN	177	22.578	58.959	5.356	0.00	0.00
ATOM	2821	OE1	GLN	177	21.733	58.600	5.948	0.00	0.00
ATOM	2822	NE2	GLN	177	22.316	59.035	4.239	0.00	0.00
ATOM	2823	1HE2	GLN	177	21.432	58.823	3.903	0.00	0.00
ATOM	2824	2HE2	GLN	177	22.988	59.338	3.728	0.00	0.00
ATOM	2825	C	GLN	177	25.423	60.372	9.271	0.00	0.00
ATOM	2826	O	GLN	177	25.289	61.548	9.410	0.00	0.00
ATOM	2827	N	ARG	178	25.649	59.601	10.311	0.00	0.00
ATOM	2828	H	ARG	178	25.690	58.646	10.114	0.00	0.00
ATOM	2829	CA	ARG	178	25.831	60.022	11.700	0.00	0.00
ATOM	2830	HA	ARG	178	25.266	60.919	11.854	0.00	0.00
ATOM	2831	CB	ARG	178	25.257	58.956	12.620	0.00	0.00
ATOM	2832	HB2	ARG	178	24.868	58.307	12.250	0.00	0.00
ATOM	2833	HB3	ARG	178	25.824	58.596	13.047	0.00	0.00
ATOM	2834	CG	ARG	178	24.399	59.209	13.455	0.00	0.00

ATOM	2835	HG2	ARG	178	24.641	59.495	13.933	0.00	0.00
ATOM	2836	HG3	ARG	178	24.156	59.665	13.113	0.00	0.00
ATOM	2837	CD	ARG	178	23.517	58.419	14.078	0.00	0.00
ATOM	2838	HD2	ARG	178	22.802	58.426	13.601	0.00	0.00
ATOM	2839	HD3	ARG	178	23.847	57.596	13.973	0.00	0.00
ATOM	2840	NE	ARG	178	23.165	58.678	15.426	0.00	0.00
ATOM	2841	HE	ARG	178	23.680	58.260	16.120	0.00	0.00
ATOM	2842	CZ	ARG	178	22.168	59.323	15.844	0.00	0.00
ATOM	2843	NH1	ARG	178	21.954	59.390	17.064	0.00	0.00
ATOM	2844	1HH1	ARG	178	22.545	58.950	17.676	0.00	0.00
ATOM	2845	2HH1	ARG	178	21.207	59.878	17.390	0.00	0.00
ATOM	2846	NH2	ARG	178	21.362	59.899	15.099	0.00	0.00
ATOM	2847	1HH2	ARG	178	21.473	59.887	14.148	0.00	0.00
ATOM	2848	2HH2	ARG	178	20.630	60.371	15.473	0.00	0.00
ATOM	2849	C	ARG	178	27.273	60.391	12.049	0.00	0.00
ATOM	2850	O	ARG	178	27.549	60.727	13.160	0.00	0.00
ATOM	2851	N	GLY	179	28.181	60.349	11.106	0.00	0.00
ATOM	2852	H	GLY	179	27.864	60.071	10.226	0.00	0.00
ATOM	2853	CA	GLY	179	29.579	60.737	11.232	0.00	0.00
ATOM	2854	HA2	GLY	179	29.876	61.203	10.321	0.00	0.00
ATOM	2855	HA3	GLY	179	29.679	61.456	12.016	0.00	0.00
ATOM	2856	C	GLY	179	30.561	59.613	11.504	0.00	0.00
ATOM	2857	O	GLY	179	31.697	59.889	11.799	0.00	0.00
ATOM	2858	N	GLY	180	30.152	58.364	11.408	0.00	0.00
ATOM	2859	H	GLY	180	29.206	58.213	11.175	0.00	0.00
ATOM	2860	CA	GLY	180	30.952	57.193	11.757	0.00	0.00
ATOM	2861	HA2	GLY	180	30.633	56.366	11.160	0.00	0.00
ATOM	2862	HA3	GLY	180	31.983	57.376	11.544	0.00	0.00
ATOM	2863	C	GLY	180	30.826	56.783	13.211	0.00	0.00
ATOM	2864	O	GLY	180	30.220	57.467	14.002	0.00	0.00
ATOM	2865	N	TRP	181	31.394	55.649	13.583	0.00	0.00
ATOM	2866	H	TRP	181	31.918	55.154	12.907	0.00	0.00
ATOM	2867	CA	TRP	181	31.209	55.023	14.894	0.00	0.00
ATOM	2868	HA	TRP	181	30.150	54.895	15.044	0.00	0.00
ATOM	2869	CB	TRP	181	31.827	53.629	14.887	0.00	0.00
ATOM	2870	HB2	TRP	181	32.729	53.638	14.327	0.00	0.00
ATOM	2871	HB3	TRP	181	32.084	53.356	15.881	0.00	0.00
ATOM	2872	CG	TRP	181	30.945	52.558	14.386	0.00	0.00
ATOM	2873	CD1	TRP	181	31.061	51.921	13.230	0.00	0.00
ATOM	2874	HD1	TRP	181	31.813	52.111	12.511	0.00	0.00
ATOM	2875	NE1	TRP	181	30.064	51.003	13.108	0.00	0.00
ATOM	2876	HE1	TRP	181	29.964	50.408	12.326	0.00	0.00
ATOM	2877	CE2	TRP	181	29.242	51.012	14.186	0.00	0.00
ATOM	2878	CZ2	TRP	181	28.110	50.298	14.519	0.00	0.00
ATOM	2879	HZ2	TRP	181	27.730	49.570	13.857	0.00	0.00
ATOM	2880	CH2	TRP	181	27.498	50.534	15.731	0.00	0.00
ATOM	2881	HH2	TRP	181	26.646	49.978	16.009	0.00	0.00
ATOM	2882	CZ3	TRP	181	28.014	51.484	16.585	0.00	0.00
ATOM	2883	HZ3	TRP	181	27.540	51.663	17.510	0.00	0.00
ATOM	2884	CE3	TRP	181	29.140	52.210	16.238	0.00	0.00
ATOM	2885	HE3	TRP	181	29.517	52.945	16.894	0.00	0.00
ATOM	2886	CD2	TRP	181	29.791	51.988	15.031	0.00	0.00
ATOM	2887	C	TRP	181	31.691	55.836	16.092	0.00	0.00
ATOM	2888	O	TRP	181	31.055	55.788	17.123	0.00	0.00
ATOM	2889	N	VAL	182	32.755	56.615	15.964	0.00	0.00
ATOM	2890	H	VAL	182	33.198	56.650	15.084	0.00	0.00
ATOM	2891	CA	VAL	182	33.251	57.470	17.050	0.00	0.00
ATOM	2892	HA	VAL	182	33.279	56.882	17.953	0.00	0.00
ATOM	2893	CB	VAL	182	34.669	57.962	16.768	0.00	0.00
ATOM	2894	HB	VAL	182	34.656	58.579	15.920	0.00	0.00
ATOM	2895	CG1	VAL	182	35.242	58.748	17.889	0.00	0.00
ATOM	2896	1HG1	VAL	182	35.582	59.045	18.002	0.00	0.00
ATOM	2897	2HG1	VAL	182	35.433	58.724	18.301	0.00	0.00
ATOM	2898	3HG1	VAL	182	35.150	59.067	18.174	0.00	0.00
ATOM	2899	CG2	VAL	182	35.628	56.850	16.510	0.00	0.00
ATOM	2900	1HG2	VAL	182	36.073	56.762	16.542	0.00	0.00
ATOM	2901	2HG2	VAL	182	35.798	56.578	16.163	0.00	0.00
ATOM	2902	3HG2	VAL	182	35.721	56.410	16.625	0.00	0.00
ATOM	2903	C	VAL	182	32.308	58.637	17.309	0.00	0.00
ATOM	2904	O	VAL	182	32.050	58.958	18.434	0.00	0.00
ATOM	2905	N	ALA	183	31.726	59.219	16.286	0.00	0.00
ATOM	2906	H	ALA	183	31.967	58.909	15.393	0.00	0.00
ATOM	2907	CA	ALA	183	30.734	60.266	16.400	0.00	0.00
ATOM	2908	HA	ALA	183	31.060	60.964	17.147	0.00	0.00
ATOM	2909	CB	ALA	183	30.662	60.993	15.081	0.00	0.00
ATOM	2910	HB1	ALA	183	30.272	61.418	14.920	0.00	0.00
ATOM	2911	HB2	ALA	183	31.073	61.344	14.823	0.00	0.00
ATOM	2912	HB3	ALA	183	30.578	60.766	14.542	0.00	0.00
ATOM	2913	C	ALA	183	29.364	59.743	16.830	0.00	0.00
ATOM	2914	O	ALA	183	28.707	60.363	17.631	0.00	0.00
ATOM	2915	N	ALA	184	28.955	58.586	16.354	0.00	0.00
ATOM	2916	H	ALA	184	29.510	58.150	15.666	0.00	0.00
ATOM	2917	CA	ALA	184	27.686	57.975	16.690	0.00	0.00
ATOM	2918	HA	ALA	184	26.917	58.705	16.528	0.00	0.00
ATOM	2919	CB	ALA	184	27.447	56.813	15.747	0.00	0.00
ATOM	2920	HB1	ALA	184	27.893	56.234	15.780	0.00	0.00
ATOM	2921	HB2	ALA	184	26.803	56.447	15.785	0.00	0.00
ATOM	2922	HB3	ALA	184	27.454	56.917	15.016	0.00	0.00
ATOM	2923	C	ALA	184	27.580	57.553	18.150	0.00	0.00
ATOM	2924	O	ALA	184	26.515	57.637	18.713	0.00	0.00
ATOM	2925	N	LEU	185	28.678	57.166	18.781	0.00	0.00
ATOM	2926	H	LEU	185	29.509	57.081	18.254	0.00	0.00
ATOM	2927	CA	LEU	185	28.743	56.845	20.194	0.00	0.00
ATOM	2928	HA	LEU	185	27.962	56.184	20.411	0.00	0.00
ATOM	2929	CB	LEU	185	30.046	56.158	20.486	0.00	0.00
ATOM	2930	HB2	LEU	185	30.175	55.365	19.840	0.00	0.00
ATOM	2931	HB3	LEU	185	30.792	56.819	20.289	0.00	0.00
ATOM	2932	CG	LEU	185	30.228	55.647	21.867	0.00	0.00
ATOM	2933	HG	LEU	185	30.075	56.405	22.514	0.00	0.00
ATOM	2934	CD1	LEU	185	29.336	54.606	22.203	0.00	0.00
ATOM	2935	1HD1	LEU	185	28.900	54.523	22.218	0.00	0.00
ATOM	2936	2HD1	LEU	185	29.190	54.321	22.558	0.00	0.00
ATOM	2937	3HD1	LEU	185	29.261	54.228	22.097	0.00	0.00
ATOM	2938	CD2	LEU	185	31.557	55.122	22.081	0.00	0.00
ATOM	2939	1HD2	LEU	185	31.849	54.976	22.201	0.00	0.00

