

HEADER G PROTEIN-COUPLED RECEPTOR 08-JAN-98
 TITLE MOLECULAR MODEL OF THE HUMAN P2Y1 PURINOCEPTOR
 COMPND HUMAN P2Y1_MRS2179;
 COMPND 2 MOLECULE: HUMAN P2Y1 PURINOCEPTOR;
 COMPND 3 CHAIN: 1, 2, 3, 4, 5, 6, 7;
 COMPND 4 FRAGMENT: SEVEN TRANSMEMBRANE HELICES ONLY;
 COMPND 5 SYNONYM: P2YR1, P2, PURINOCEPTOR-P2Y
 SOURCE HUMAN P2Y1_MRS2179;
 SOURCE 2 ORGANISM_Scientific: HOMO SAPIENS;
 SOURCE 3 ORGANISM_COMMON: HUMAN;
 SOURCE 4 TISSUE: PLACENTA
 KEYWDS P2 PURINOCEPTOR, G PROTEIN-COUPLED RECEPTOR
 EXPDTA THEORETICAL MODEL
 AUTHOR S.MORO,D.GUO,E.CAMAIONI,J.L.BOYER,T.K.HARDEN,K.A.JACOBSON
 JRNL AUTH S.MORO,D.GUO,E.CAMAIONI,J.L.BOYER,T.K.HARDEN,K.A.JACOBSON
 JRNL TTIL HUMAN P2Y1 RECEPTOR: MOLECULAR MODELING AND
 JRNL TTIL 2 SITE-DIRECTED MUTAGENESIS AS TOOLS TO IDENTIFY
 JRNL TTIL 3 AGONIST AND ANTAGONIST BINDING SITES.
 REMARK 1
 REMARK 1 REFERENCE 1
 REMARK 1 AUTH A.M.VAN RHEE,B.FISCHER,P.J.M.VAN GALEN,K.A.JACOBSON
 REMARK 1 TTIL MODELLING THE P2Y PURINOCEPTOR USING RHODOPSIN AS
 REMARK 1 TTIL 2 TEMPLATE
 REMARK 1 REFN ASTM DDDIEV SZ ISSN 1055-9612
 REMARK 1 REFERENCE 2
 REMARK 1 AUTH E.CAMAIONI,A.MOHANRAM,J.L.BOYER,T.K.HARDEN,K.A.JACOBSON
 REMARK 1 TTIL DEOXYADENOSINE-BISPHOSPHATE DERIVATIVES AS POTENT
 REMARK 1 TTIL 2 ANTAGONISTS AT P2Y1 RECEPTORS
 REMARK 1 REFN ASTM JMC
 SEQRES 1 32 ACE PHE TYR TYR LEU PRO ALA VAL TYR ILE LEU VAL PHE
 SEQRES 2 32 ILE ILE GLY PHE LEU GLY ASN SER VAL ALA ILE TRP MET
 SEQRES 3 32 PHE VAL PHE HIS MET ARG
 SEQRES 1 28 ACE SER VAL TYR MET PHE ASN LEU ALA LEU ALA ASP PHE
 SEQRES 2 28 LEU TYR VAL LEU THR LEU PRO ALA LEU ILE PHE TYR TYR
 SEQRES 3 28 PHE ASN
 SEQRES 1 26 ACE LYS LEU GLN ARG PHE ILE PHE HIS VAL ASN LEU TYR
 SEQRES 2 26 GLY SER ILE LEU PHE LEU THR CYS ILE SER ALA HIS ARG
 SEQRES 1 28 ACE LYS LYS LYS ASN ALA ILE CYS ILE SER VAL LEU VAL
 SEQRES 2 28 TRP LEU ILE VAL VAL ALA ILE SER PRO ILE LEU PHE
 SEQRES 3 28 TYR SER
 SEQRES 1 30 ACE PHE ILE TYR SER MET CYS THR THR VAL ALA MET PHE
 SEQRES 2 30 CYS VAL PRO LEU VAL LEU ILE LEU GLY CYS TYR GLY LEU
 SEQRES 3 30 ILE VAL ARG ALA
 SEQRES 1 29 ACE TYR LEU VAL ILE ILE VAL LEU THR VAL PHE ALA VAL
 SEQRES 2 29 SER TYR ILE PRO PHE HIS VAL MET LYS THR MET ASN LEU
 SEQRES 3 29 ARG ALA ARG
 SEQRES 1 34 ACE ASP ARG VAL TYR ALA THR TYR GLN VAL THR ARG GLY
 SEQRES 2 34 LEU ALA SER LEU ASN SER CYS VAL ASP PRO ILE LEU TYR
 SEQRES 3 34 PHE LEU ALA GLY ASP THR PHE ARG
 ATOM 1 C ACE 50 -6.542 17.505 -9.931 1.00 0.18
 ATOM 2 O ACE 50 -7.457 17.075 -9.246 1.00 -0.40
 ATOM 3 CH3 ACE 50 -6.687 17.520 -11.429 1.00 0.03
 ATOM 4 H ACE 50 -5.860 16.956 -11.885 1.00 0.05
 ATOM 5 H ACE 50 -6.665 18.558 -11.791 1.00 0.05
 ATOM 6 H ACE 50 -7.639 17.058 -11.731 1.00 0.05
 ATOM 7 N PHE 51 -5.417 17.990 -9.365 1.00 -0.26
 ATOM 8 CA PHE 51 -5.213 17.892 -7.913 1.00 0.14
 ATOM 9 C PHE 51 -6.131 18.790 -7.096 1.00 0.21

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ATOM	10	O	PHE	51	-5.652	19.392	-6.148	1.00	-0.39
ATOM	11	CB	PHE	51	-3.748	18.256	-7.529	1.00	0.02
ATOM	12	CG	PHE	51	-2.674	17.488	-8.312	1.00	-0.04
ATOM	13	CD1	PHE	51	-2.335	16.183	-7.936	1.00	-0.06
ATOM	14	CD2	PHE	51	-2.003	18.085	-9.388	1.00	-0.06
ATOM	15	CE1	PHE	51	-1.274	15.523	-8.561	1.00	-0.07
ATOM	16	CE2	PHE	51	-0.931	17.432	-10.003	1.00	-0.07
ATOM	17	CZ	PHE	51	-0.551	16.158	-9.574	1.00	-0.07
ATOM	18	H	PHE	51	-4.710	18.400	-9.940	1.00	0.19
ATOM	19	HA	PHE	51	-5.400	16.853	-7.595	1.00	0.08
ATOM	20	HB2	PHE	51	-3.575	18.064	-6.457	1.00	0.05
ATOM	21	HB1	PHE	51	-3.613	19.334	-7.695	1.00	0.05
ATOM	22	HD1	PHE	51	-2.891	15.678	-7.152	1.00	0.06
ATOM	23	HD2	PHE	51	-2.303	19.061	-9.755	1.00	0.06
ATOM	24	HE1	PHE	51	-1.008	14.516	-8.261	1.00	0.06
ATOM	25	HE2	PHE	51	-0.393	17.913	-10.815	1.00	0.06
ATOM	26	HZ	PHE	51	0.300	15.661	-10.028	1.00	0.06
ATOM	27	N	TYR	52	-7.441	18.933	-7.396	1.00	-0.26
ATOM	28	CA	TYR	52	-8.270	19.893	-6.664	1.00	0.14
ATOM	29	C	TYR	52	-9.683	19.360	-6.516	1.00	0.21
ATOM	30	O	TYR	52	-10.111	19.108	-5.402	1.00	-0.39
ATOM	31	CB	TYR	52	-8.194	21.263	-7.391	1.00	0.02
ATOM	32	CG	TYR	52	-6.719	21.649	-7.593	1.00	-0.05
ATOM	33	CD1	TYR	52	-6.033	22.356	-6.600	1.00	-0.07
ATOM	34	CD2	TYR	52	-6.040	21.286	-8.763	1.00	-0.07
ATOM	35	CE1	TYR	52	-4.684	22.683	-6.767	1.00	-0.04
ATOM	36	CE2	TYR	52	-4.690	21.614	-8.931	1.00	-0.04
ATOM	37	CZ	TYR	52	-4.009	22.321	-7.938	1.00	0.08
ATOM	38	OH	TYR	52	-2.666	22.665	-8.121	1.00	-0.34
ATOM	39	H	TYR	52	-7.853	18.427	-8.152	1.00	0.19
ATOM	40	HA	TYR	52	-7.891	20.037	-5.637	1.00	0.08
ATOM	41	HB1	TYR	52	-8.719	22.032	-6.802	1.00	0.05
ATOM	42	HB2	TYR	52	-8.680	21.215	-8.376	1.00	0.05
ATOM	43	HD1	TYR	52	-6.545	22.649	-5.689	1.00	0.05
ATOM	44	HD2	TYR	52	-6.556	20.741	-9.547	1.00	0.05
ATOM	45	HE1	TYR	52	-4.159	23.218	-5.983	1.00	0.05
ATOM	46	HE2	TYR	52	-4.167	21.322	-9.836	1.00	0.05
ATOM	47	HH	TYR	52	-2.552	23.589	-7.917	1.00	0.25
ATOM	48	N	TYR	53	-10.445	19.142	-7.611	1.00	-0.26
ATOM	49	CA	TYR	53	-11.756	18.511	-7.452	1.00	0.14
ATOM	50	C	TYR	53	-11.564	17.045	-7.133	1.00	0.21
ATOM	51	O	TYR	53	-12.222	16.533	-6.243	1.00	-0.39
ATOM	52	CB	TYR	53	-12.620	18.636	-8.736	1.00	0.02
ATOM	53	CG	TYR	53	-12.745	20.113	-9.134	1.00	-0.05
ATOM	54	CD1	TYR	53	-13.591	20.961	-8.410	1.00	-0.07
ATOM	55	CD2	TYR	53	-12.020	20.631	-10.214	1.00	-0.07
ATOM	56	CE1	TYR	53	-13.696	22.314	-8.746	1.00	-0.04
ATOM	57	CE2	TYR	53	-12.124	21.983	-10.548	1.00	-0.04
ATOM	58	CZ	TYR	53	-12.959	22.833	-9.817	1.00	0.08
ATOM	59	OH	TYR	53	-13.038	24.182	-10.174	1.00	-0.34
ATOM	60	H	TYR	53	-10.116	19.341	-8.533	1.00	0.19
ATOM	61	HA	TYR	53	-12.302	18.991	-6.622	1.00	0.08
ATOM	62	HB1	TYR	53	-13.624	18.219	-8.554	1.00	0.05
ATOM	63	HB2	TYR	53	-12.164	18.057	-9.554	1.00	0.05
ATOM	64	HD1	TYR	53	-14.172	20.570	-7.581	1.00	0.05
ATOM	65	HD2	TYR	53	-11.371	19.989	-10.801	1.00	0.05
ATOM	66	HE1	TYR	53	-14.354	22.955	-8.168	1.00	0.05
ATOM	67	HE2	TYR	53	-11.556	22.384	-11.381	1.00	0.05

ATOM	68	HH	TYR	53	-13.654	24.690	-9.657	1.00	0.25
ATOM	69	N	LEU	54	-10.666	16.336	-7.851	1.00	-0.26
ATOM	70	CA	LEU	54	-10.492	14.906	-7.593	1.00	0.13
ATOM	71	C	LEU	54	-10.227	14.581	-6.129	1.00	0.21
ATOM	72	O	LEU	54	-10.982	13.780	-5.596	1.00	-0.39
ATOM	73	CB	LEU	54	-9.420	14.276	-8.529	1.00	-0.01
ATOM	74	CG	LEU	54	-9.807	14.223	-10.041	1.00	-0.04
ATOM	75	CD1	LEU	54	-8.581	13.770	-10.883	1.00	-0.06
ATOM	76	CD2	LEU	54	-10.999	13.263	-10.328	1.00	-0.06
ATOM	77	H	LEU	54	-10.120	16.772	-8.567	1.00	0.19
ATOM	78	HA	LEU	54	-11.455	14.427	-7.817	1.00	0.08
ATOM	79	HB2	LEU	54	-9.206	13.258	-8.184	1.00	0.03
ATOM	80	HB1	LEU	54	-8.492	14.854	-8.424	1.00	0.03
ATOM	81	HG	LEU	54	-10.084	15.233	-10.389	1.00	0.03
ATOM	82	HD13	LEU	54	-7.709	14.417	-10.695	1.00	0.02
ATOM	83	HD12	LEU	54	-8.809	13.813	-11.959	1.00	0.02
ATOM	84	HD11	LEU	54	-8.314	12.734	-10.628	1.00	0.02
ATOM	85	HD23	LEU	54	-10.800	12.266	-9.905	1.00	0.02
ATOM	86	HD22	LEU	54	-11.146	13.153	-11.413	1.00	0.02
ATOM	87	HD21	LEU	54	-11.944	13.640	-9.913	1.00	0.02
ATOM	88	N	PRO	55	-9.223	15.119	-5.388	1.00	-0.25
ATOM	89	CA	PRO	55	-9.112	14.762	-3.982	1.00	0.13
ATOM	90	C	PRO	55	-10.338	15.194	-3.212	1.00	0.20
ATOM	91	O	PRO	55	-10.698	14.495	-2.279	1.00	-0.39
ATOM	92	CB	PRO	55	-7.827	15.529	-3.580	1.00	-0.01
ATOM	93	CG	PRO	55	-7.737	16.691	-4.596	1.00	-0.03
ATOM	94	CD	PRO	55	-8.245	16.057	-5.913	1.00	0.04
ATOM	95	HA	PRO	55	-8.972	13.678	-3.856	1.00	0.08
ATOM	96	HB2	PRO	55	-6.951	14.876	-3.733	1.00	0.03
ATOM	97	HB1	PRO	55	-7.838	15.865	-2.531	1.00	0.03
ATOM	98	HG1	PRO	55	-8.415	17.497	-4.274	1.00	0.03
ATOM	99	HG2	PRO	55	-6.722	17.111	-4.688	1.00	0.03
ATOM	100	HD1	PRO	55	-8.662	16.819	-6.576	1.00	0.05
ATOM	101	HD2	PRO	55	-7.426	15.514	-6.410	1.00	0.05
ATOM	102	N	ALA	56	-11.024	16.306	-3.557	1.00	-0.26
ATOM	103	CA	ALA	56	-12.253	16.625	-2.832	1.00	0.13
ATOM	104	C	ALA	56	-13.260	15.525	-3.082	1.00	0.20
ATOM	105	O	ALA	56	-13.872	15.034	-2.146	1.00	-0.39
ATOM	106	CB	ALA	56	-12.848	17.992	-3.257	1.00	-0.02
ATOM	107	H	ALA	56	-10.761	16.872	-4.342	1.00	0.19
ATOM	108	HA	ALA	56	-12.035	16.671	-1.752	1.00	0.08
ATOM	109	HB3	ALA	56	-13.130	17.985	-4.319	1.00	0.03
ATOM	110	HB2	ALA	56	-12.107	18.790	-3.096	1.00	0.03
ATOM	111	HB1	ALA	56	-13.746	18.215	-2.660	1.00	0.03
ATOM	112	N	VAL	57	-13.443	15.107	-4.353	1.00	-0.26
ATOM	113	CA	VAL	57	-14.382	14.024	-4.629	1.00	0.13
ATOM	114	C	VAL	57	-13.932	12.797	-3.873	1.00	0.20
ATOM	115	O	VAL	57	-14.745	12.191	-3.193	1.00	-0.39
ATOM	116	CB	VAL	57	-14.517	13.708	-6.150	1.00	-0.01
ATOM	117	CG1	VAL	57	-15.310	12.392	-6.389	1.00	-0.06
ATOM	118	CG2	VAL	57	-15.213	14.881	-6.897	1.00	-0.06
ATOM	119	H	VAL	57	-12.903	15.498	-5.105	1.00	0.19
ATOM	120	HA	VAL	57	-15.375	14.309	-4.245	1.00	0.08
ATOM	121	HB	VAL	57	-13.507	13.569	-6.570	1.00	0.03
ATOM	122	HG13	VAL	57	-14.771	11.522	-5.984	1.00	0.02
ATOM	123	HG12	VAL	57	-15.454	12.221	-7.468	1.00	0.02
ATOM	124	HG11	VAL	57	-16.299	12.448	-5.909	1.00	0.02
ATOM	125	HG23	VAL	57	-16.246	15.004	-6.538	1.00	0.02

ATOM	126	HG22VAL	57	-15.242	14.681	-7.980	1.00	0.02
ATOM	127	HG21VAL	57	-14.680	15.831	-6.744	1.00	0.02
ATOM	128	N TYR	58	-12.648	12.387	-3.961	1.00	-0.26
ATOM	129	CA TYR	58	-12.253	11.195	-3.217	1.00	0.14
ATOM	130	C TYR	58	-12.466	11.395	-1.734	1.00	0.21
ATOM	131	O TYR	58	-12.921	10.470	-1.081	1.00	-0.39
ATOM	132	CB TYR	58	-10.799	10.735	-3.483	1.00	0.02
ATOM	133	CG TYR	58	-10.666	10.214	-4.920	1.00	-0.05
ATOM	134	CD1 TYR	58	-11.344	9.050	-5.307	1.00	-0.07
ATOM	135	CD2 TYR	58	-9.874	10.886	-5.856	1.00	-0.07
ATOM	136	CE1 TYR	58	-11.347	8.643	-6.644	1.00	-0.04
ATOM	137	CE2 TYR	58	-9.856	10.458	-7.185	1.00	-0.04
ATOM	138	CZ TYR	58	-10.637	9.379	-7.598	1.00	0.08
ATOM	139	OH TYR	58	-10.696	9.058	-8.954	1.00	-0.34
ATOM	140	H TYR	58	-11.970	12.887	-4.512	1.00	0.19
ATOM	141	HA TYR	58	-12.924	10.384	-3.533	1.00	0.08
ATOM	142	HB1 TYR	58	-10.548	9.903	-2.813	1.00	0.05
ATOM	143	HB2 TYR	58	-10.108	11.562	-3.267	1.00	0.05
ATOM	144	HD1 TYR	58	-11.873	8.452	-4.572	1.00	0.05
ATOM	145	HD2 TYR	58	-9.273	11.739	-5.562	1.00	0.05
ATOM	146	HE1 TYR	58	-11.899	7.755	-6.935	1.00	0.05
ATOM	147	HE2 TYR	58	-9.235	10.966	-7.907	1.00	0.05
ATOM	148	HH TYR	58	-11.540	8.701	-9.203	1.00	0.25
ATOM	149	N ILE	59	-12.168	12.577	-1.158	1.00	-0.26
ATOM	150	CA ILE	59	-12.471	12.774	0.261	1.00	0.13
ATOM	151	C ILE	59	-13.960	12.591	0.472	1.00	0.20
ATOM	152	O ILE	59	-14.351	11.922	1.418	1.00	-0.39
ATOM	153	CB ILE	59	-11.961	14.149	0.790	1.00	0.00
ATOM	154	CG1 ILE	59	-10.400	14.153	0.853	1.00	-0.05
ATOM	155	CG2 ILE	59	-12.574	14.473	2.184	1.00	-0.06
ATOM	156	CD1 ILE	59	-9.789	15.580	0.850	1.00	-0.06
ATOM	157	H ILE	59	-11.796	13.336	-1.702	1.00	0.19
ATOM	158	HA ILE	59	-11.963	11.989	0.842	1.00	0.08
ATOM	159	HB ILE	59	-12.307	14.923	0.086	1.00	0.03
ATOM	160	HG12ILE	59	-9.984	13.621	-0.018	1.00	0.03
ATOM	161	HG11ILE	59	-10.064	13.610	1.752	1.00	0.03
ATOM	162	HG23ILE	59	-13.668	14.569	2.115	1.00	0.02
ATOM	163	HG22ILE	59	-12.190	15.424	2.580	1.00	0.02
ATOM	164	HG21ILE	59	-12.338	13.673	2.903	1.00	0.02
ATOM	165	HD13ILE	59	-10.097	16.126	-0.055	1.00	0.02
ATOM	166	HD12ILE	59	-8.689	15.516	0.852	1.00	0.02
ATOM	167	HD11ILE	59	-10.098	16.160	1.731	1.00	0.02
ATOM	168	N LEU	60	-14.831	13.160	-0.389	1.00	-0.26
ATOM	169	CA LEU	60	-16.262	12.910	-0.213	1.00	0.13
ATOM	170	C LEU	60	-16.543	11.427	-0.346	1.00	0.20
ATOM	171	O LEU	60	-17.285	10.898	0.466	1.00	-0.39
ATOM	172	CB LEU	60	-17.160	13.688	-1.216	1.00	-0.01
ATOM	173	CG LEU	60	-17.126	15.240	-1.054	1.00	-0.04
ATOM	174	CD1 LEU	60	-17.902	15.901	-2.228	1.00	-0.06
ATOM	175	CD2 LEU	60	-17.726	15.714	0.300	1.00	-0.06
ATOM	176	H LEU	60	-14.508	13.707	-1.171	1.00	0.19
ATOM	177	HA LEU	60	-16.545	13.185	0.814	1.00	0.08
ATOM	178	HB2 LEU	60	-18.202	13.349	-1.096	1.00	0.03
ATOM	179	HB1 LEU	60	-16.837	13.415	-2.232	1.00	0.03
ATOM	180	HG LEU	60	-16.084	15.596	-1.103	1.00	0.03
ATOM	181	HD13LEU	60	-17.463	15.613	-3.196	1.00	0.02
ATOM	182	HD12LEU	60	-17.861	16.999	-2.152	1.00	0.02
ATOM	183	HD11LEU	60	-18.957	15.588	-2.214	1.00	0.02

ATOM	184	HD23LEU	60	-18.741	15.309	0.435	1.00	0.02
ATOM	185	HD22LEU	60	-17.788	16.814	0.326	1.00	0.02
ATOM	186	HD21LEU	60	-17.105	15.405	1.153	1.00	0.02
ATOM	187	N VAL	61	-15.973	10.713	-1.340	1.00	-0.26
ATOM	188	CA VAL	61	-16.199	9.266	-1.411	1.00	0.13
ATOM	189	C VAL	61	-15.748	8.637	-0.111	1.00	0.20
ATOM	190	O VAL	61	-16.455	7.808	0.440	1.00	-0.39
ATOM	191	CB VAL	61	-15.433	8.579	-2.582	1.00	-0.01
ATOM	192	CG1 VAL	61	-15.463	7.027	-2.477	1.00	-0.06
ATOM	193	CG2 VAL	61	-16.004	9.017	-3.961	1.00	-0.06
ATOM	194	H VAL	61	-15.358	11.162	-1.995	1.00	0.19
ATOM	195	HA VAL	61	-17.275	9.073	-1.536	1.00	0.08
ATOM	196	HB VAL	61	-14.376	8.873	-2.516	1.00	0.03
ATOM	197	HG13VAL	61	-14.972	6.666	-1.561	1.00	0.02
ATOM	198	HG12VAL	61	-14.922	6.588	-3.330	1.00	0.02
ATOM	199	HG11VAL	61	-16.502	6.666	-2.484	1.00	0.02
ATOM	200	HG23VAL	61	-17.040	8.663	-4.073	1.00	0.02
ATOM	201	HG22VAL	61	-15.400	8.591	-4.778	1.00	0.02
ATOM	202	HG21VAL	61	-16.001	10.110	-4.071	1.00	0.02
ATOM	203	N PHE	62	-14.555	9.010	0.392	1.00	-0.26
ATOM	204	CA PHE	62	-14.062	8.410	1.627	1.00	0.14
ATOM	205	C PHE	62	-15.042	8.677	2.750	1.00	0.21
ATOM	206	O PHE	62	-15.431	7.760	3.458	1.00	-0.39
ATOM	207	CB PHE	62	-12.671	8.999	1.996	1.00	0.02
ATOM	208	CG PHE	62	-11.552	8.847	0.947	1.00	-0.04
ATOM	209	CD1 PHE	62	-11.646	7.992	-0.160	1.00	-0.06
ATOM	210	CD2 PHE	62	-10.382	9.601	1.109	1.00	-0.06
ATOM	211	CE1 PHE	62	-10.578	7.870	-1.053	1.00	-0.07
ATOM	212	CE2 PHE	62	-9.296	9.448	0.242	1.00	-0.07
ATOM	213	CZ PHE	62	-9.383	8.557	-0.829	1.00	-0.07
ATOM	214	H PHE	62	-13.999	9.708	-0.071	1.00	0.19
ATOM	215	HA PHE	62	-13.987	7.316	1.513	1.00	0.08
ATOM	216	HB2 PHE	62	-12.317	8.513	2.909	1.00	0.05
ATOM	217	HB1 PHE	62	-12.787	10.068	2.219	1.00	0.05
ATOM	218	HD1 PHE	62	-12.542	7.414	-0.351	1.00	0.06
ATOM	219	HD2 PHE	62	-10.303	10.321	1.916	1.00	0.06
ATOM	220	HE1 PHE	62	-10.677	7.243	-1.931	1.00	0.06
ATOM	221	HE2 PHE	62	-8.388	10.021	0.401	1.00	0.06
ATOM	222	HZ PHE	62	-8.533	8.405	-1.488	1.00	0.06
ATOM	223	N ILE	63	-15.469	9.943	2.933	1.00	-0.26
ATOM	224	CA ILE	63	-16.411	10.231	4.016	1.00	0.13
ATOM	225	C ILE	63	-17.692	9.469	3.756	1.00	0.20
ATOM	226	O ILE	63	-18.215	8.845	4.667	1.00	-0.39
ATOM	227	CB ILE	63	-16.666	11.762	4.172	1.00	0.00
ATOM	228	CG1 ILE	63	-15.366	12.468	4.675	1.00	-0.05
ATOM	229	CG2 ILE	63	-17.867	12.030	5.125	1.00	-0.06
ATOM	230	CD1 ILE	63	-15.434	14.018	4.625	1.00	-0.06
ATOM	231	H ILE	63	-15.189	10.675	2.301	1.00	0.19
ATOM	232	HA ILE	63	-15.994	9.853	4.964	1.00	0.08
ATOM	233	HB ILE	63	-16.934	12.162	3.179	1.00	0.03
ATOM	234	HG12ILE	63	-14.513	12.163	4.048	1.00	0.03
ATOM	235	HG11ILE	63	-15.145	12.149	5.707	1.00	0.03
ATOM	236	HG23ILE	63	-18.791	11.589	4.723	1.00	0.02
ATOM	237	HG22ILE	63	-18.058	13.106	5.241	1.00	0.02
ATOM	238	HG21ILE	63	-17.672	11.596	6.117	1.00	0.02
ATOM	239	HD13ILE	63	-15.752	14.357	3.627	1.00	0.02
ATOM	240	HD12ILE	63	-14.439	14.443	4.836	1.00	0.02
ATOM	241	HD11ILE	63	-16.131	14.420	5.375	1.00	0.02

ATOM	242	N	ILE	64	-18.223	9.495	2.517	1.00	-0.26
ATOM	243	CA	ILE	64	-19.463	8.770	2.241	1.00	0.13
ATOM	244	C	ILE	64	-19.261	7.304	2.555	1.00	0.20
ATOM	245	O	ILE	64	-20.138	6.705	3.157	1.00	-0.39
ATOM	246	CB	ILE	64	-19.962	8.994	0.781	1.00	0.00
ATOM	247	CG1	ILE	64	-20.424	10.475	0.593	1.00	-0.05
ATOM	248	CG2	ILE	64	-21.108	8.002	0.427	1.00	-0.06
ATOM	249	CD1	ILE	64	-20.467	10.921	-0.894	1.00	-0.06
ATOM	250	HB	ILE	64	-19.115	8.781	0.110	1.00	0.03
ATOM	251	H	ILE	64	-17.752	9.976	1.772	1.00	0.19
ATOM	252	HA	ILE	64	-20.242	9.146	2.921	1.00	0.08
ATOM	253	HG23	ILE	64	-20.758	6.959	0.473	1.00	0.02
ATOM	254	HG22	ILE	64	-21.485	8.172	-0.592	1.00	0.02
ATOM	255	HG21	ILE	64	-21.944	8.119	1.133	1.00	0.02
ATOM	256	HG12	ILE	64	-19.739	11.162	1.113	1.00	0.03
ATOM	257	HG11	ILE	64	-21.420	10.611	1.046	1.00	0.03
ATOM	258	HD13	ILE	64	-19.477	10.796	-1.360	1.00	0.02
ATOM	259	HD12	ILE	64	-20.744	11.986	-0.956	1.00	0.02
ATOM	260	HD11	ILE	64	-21.204	10.346	-1.472	1.00	0.02
ATOM	261	N	GLY	65	-18.122	6.685	2.185	1.00	-0.27
ATOM	262	CA	GLY	65	-17.901	5.298	2.592	1.00	0.12
ATOM	263	C	GLY	65	-18.004	5.174	4.094	1.00	0.20
ATOM	264	O	GLY	65	-18.624	4.245	4.588	1.00	-0.39
ATOM	265	H	GLY	65	-17.404	7.170	1.673	1.00	0.19
ATOM	266	HA1	GLY	65	-18.651	4.646	2.118	1.00	0.08
ATOM	267	HA2	GLY	65	-16.899	4.946	2.299	1.00	0.08
ATOM	268	N	PHE	66	-17.405	6.113	4.854	1.00	-0.26
ATOM	269	CA	PHE	66	-17.503	6.023	6.312	1.00	0.14
ATOM	270	C	PHE	66	-18.918	6.281	6.771	1.00	0.21
ATOM	271	O	PHE	66	-19.336	5.675	7.746	1.00	-0.39
ATOM	272	CB	PHE	66	-16.508	6.987	7.004	1.00	0.02
ATOM	273	CG	PHE	66	-15.110	6.926	6.369	1.00	-0.04
ATOM	274	CD1	PHE	66	-14.661	5.814	5.643	1.00	-0.06
ATOM	275	CD2	PHE	66	-14.266	8.035	6.500	1.00	-0.06
ATOM	276	CE1	PHE	66	-13.480	5.888	4.904	1.00	-0.07
ATOM	277	CE2	PHE	66	-13.028	8.064	5.855	1.00	-0.07
ATOM	278	CZ	PHE	66	-12.636	6.988	5.054	1.00	-0.07
ATOM	279	H	PHE	66	-16.917	6.887	4.430	1.00	0.19
ATOM	280	HA	PHE	66	-17.263	4.996	6.631	1.00	0.08
ATOM	281	HB2	PHE	66	-16.436	6.764	8.079	1.00	0.05
ATOM	282	HB1	PHE	66	-16.901	8.009	6.885	1.00	0.05
ATOM	283	HD1	PHE	66	-15.210	4.880	5.624	1.00	0.06
ATOM	284	HD2	PHE	66	-14.575	8.881	7.103	1.00	0.06
ATOM	285	HE1	PHE	66	-13.220	5.090	4.215	1.00	0.06
ATOM	286	HE2	PHE	66	-12.382	8.926	5.980	1.00	0.06
ATOM	287	HZ	PHE	66	-11.681	6.985	4.546	1.00	0.06
ATOM	288	N	LEU	67	-19.696	7.149	6.089	1.00	-0.26
ATOM	289	CA	LEU	67	-21.126	7.194	6.389	1.00	0.13
ATOM	290	C	LEU	67	-21.703	5.833	6.065	1.00	0.20
ATOM	291	O	LEU	67	-22.546	5.353	6.804	1.00	-0.39
ATOM	292	CB	LEU	67	-21.924	8.281	5.618	1.00	-0.01
ATOM	293	CG	LEU	67	-21.434	9.742	5.859	1.00	-0.04
ATOM	294	CD1	LEU	67	-22.288	10.728	5.013	1.00	-0.06
ATOM	295	CD2	LEU	67	-21.484	10.150	7.357	1.00	-0.06
ATOM	296	H	LEU	67	-19.330	7.677	5.317	1.00	0.19
ATOM	297	HA	LEU	67	-21.259	7.347	7.469	1.00	0.08
ATOM	298	HB2	LEU	67	-22.982	8.208	5.917	1.00	0.03
ATOM	299	HB1	LEU	67	-21.866	8.050	4.543	1.00	0.03

ATOM	300	HG	LEU	67	-20.392	9.837	5.520	1.00	0.03
ATOM	301	HD13	LEU	67	-22.249	10.464	3.945	1.00	0.02
ATOM	302	HD12	LEU	67	-21.913	11.758	5.122	1.00	0.02
ATOM	303	HD11	LEU	67	-23.339	10.703	5.340	1.00	0.02
ATOM	304	HD23	LEU	67	-22.489	9.974	7.771	1.00	0.02
ATOM	305	HD22	LEU	67	-21.242	11.219	7.470	1.00	0.02
ATOM	306	HD21	LEU	67	-20.749	9.585	7.951	1.00	0.02
ATOM	307	N	GLY	68	-21.264	5.168	4.976	1.00	-0.27
ATOM	308	CA	GLY	68	-21.692	3.792	4.748	1.00	0.12
ATOM	309	C	GLY	68	-21.384	2.939	5.955	1.00	0.20
ATOM	310	O	GLY	68	-22.266	2.231	6.413	1.00	-0.39
ATOM	311	H	GLY	68	-20.616	5.588	4.333	1.00	0.19
ATOM	312	HA1	GLY	68	-22.774	3.773	4.548	1.00	0.08
ATOM	313	HA2	GLY	68	-21.172	3.346	3.885	1.00	0.08
ATOM	314	N	ASN	69	-20.147	2.981	6.500	1.00	-0.26
ATOM	315	CA	ASN	69	-19.886	2.225	7.726	1.00	0.15
ATOM	316	C	ASN	69	-20.806	2.696	8.832	1.00	0.21
ATOM	317	O	ASN	69	-21.463	1.875	9.447	1.00	-0.39
ATOM	318	CB	ASN	69	-18.438	2.357	8.268	1.00	0.08
ATOM	319	CG	ASN	69	-17.429	1.713	7.355	1.00	0.18
ATOM	320	OD1	ASN	69	-16.701	2.422	6.679	1.00	-0.40
ATOM	321	ND2	ASN	69	-17.350	0.370	7.317	1.00	-0.30
ATOM	322	H	ASN	69	-19.420	3.537	6.080	1.00	0.19
ATOM	323	HA	ASN	69	-20.084	1.156	7.538	1.00	0.08
ATOM	324	HB2	ASN	69	-18.358	1.866	9.251	1.00	0.06
ATOM	325	HB1	ASN	69	-18.183	3.417	8.398	1.00	0.06
ATOM	326	HD21	ASN	69	-17.908	-0.206	7.929	1.00	0.18
ATOM	327	HD22	ASN	69	-16.683	-0.069	6.717	1.00	0.18
ATOM	328	N	SER	70	-20.886	4.006	9.146	1.00	-0.26
ATOM	329	CA	SER	70	-21.700	4.403	10.297	1.00	0.15
ATOM	330	C	SER	70	-23.138	3.990	10.091	1.00	0.21
ATOM	331	O	SER	70	-23.734	3.418	10.990	1.00	-0.39
ATOM	332	CB	SER	70	-21.661	5.926	10.586	1.00	0.08
ATOM	333	OG	SER	70	-22.416	6.646	9.594	1.00	-0.39
ATOM	334	H	SER	70	-20.404	4.705	8.609	1.00	0.19
ATOM	335	HA	SER	70	-21.314	3.874	11.184	1.00	0.08
ATOM	336	HB2	SER	70	-20.613	6.270	10.605	1.00	0.06
ATOM	337	HB1	SER	70	-22.107	6.104	11.579	1.00	0.06
ATOM	338	HG	SER	70	-22.444	7.585	9.749	1.00	0.21
ATOM	339	N	VAL	71	-23.718	4.263	8.906	1.00	-0.26
ATOM	340	CA	VAL	71	-25.087	3.827	8.640	1.00	0.13
ATOM	341	C	VAL	71	-25.154	2.322	8.747	1.00	0.20
ATOM	342	O	VAL	71	-26.025	1.815	9.437	1.00	-0.39
ATOM	343	CB	VAL	71	-25.599	4.299	7.245	1.00	-0.01
ATOM	344	CG1	VAL	71	-26.938	3.602	6.869	1.00	-0.06
ATOM	345	CG2	VAL	71	-25.786	5.843	7.223	1.00	-0.06
ATOM	346	H	VAL	71	-23.193	4.733	8.191	1.00	0.19
ATOM	347	HA	VAL	71	-25.752	4.247	9.411	1.00	0.08
ATOM	348	HB	VAL	71	-24.852	4.019	6.482	1.00	0.03
ATOM	349	HG13	VAL	71	-26.800	2.516	6.754	1.00	0.02
ATOM	350	HG12	VAL	71	-27.320	3.994	5.914	1.00	0.02
ATOM	351	HG11	VAL	71	-27.695	3.780	7.649	1.00	0.02
ATOM	352	HG23	VAL	71	-26.577	6.143	7.927	1.00	0.02
ATOM	353	HG22	VAL	71	-26.073	6.178	6.214	1.00	0.02
ATOM	354	HG21	VAL	71	-24.860	6.367	7.503	1.00	0.02
ATOM	355	N	ALA	72	-24.252	1.574	8.075	1.00	-0.26
ATOM	356	CA	ALA	72	-24.308	0.118	8.184	1.00	0.13
ATOM	357	C	ALA	72	-24.237	-0.291	9.634	1.00	0.20

ATOM	358	O	ALA	72	-24.958	-1.181	10.057	1.00	-0.39
ATOM	359	CB	ALA	72	-23.141	-0.568	7.426	1.00	-0.02
ATOM	360	H	ALA	72	-23.526	1.998	7.523	1.00	0.19
ATOM	361	HA	ALA	72	-25.272	-0.226	7.780	1.00	0.08
ATOM	362	HB3	ALA	72	-22.177	-0.269	7.864	1.00	0.03
ATOM	363	HB2	ALA	72	-23.148	-0.282	6.363	1.00	0.03
ATOM	364	HB1	ALA	72	-23.230	-1.662	7.496	1.00	0.03
ATOM	365	N	ILE	73	-23.371	0.354	10.437	1.00	-0.26
ATOM	366	CA	ILE	73	-23.296	-0.024	11.840	1.00	0.13
ATOM	367	C	ILE	73	-24.576	0.368	12.531	1.00	0.20
ATOM	368	O	ILE	73	-25.101	-0.429	13.292	1.00	-0.39
ATOM	369	CB	ILE	73	-22.072	0.593	12.565	1.00	0.00
ATOM	370	CG1	ILE	73	-20.760	0.034	11.941	1.00	-0.05
ATOM	371	CG2	ILE	73	-22.155	0.260	14.080	1.00	-0.06
ATOM	372	CD1	ILE	73	-19.535	0.924	12.272	1.00	-0.06
ATOM	373	H	ILE	73	-22.804	1.110	10.093	1.00	0.19
ATOM	374	HA	ILE	73	-23.197	-1.117	11.898	1.00	0.08
ATOM	375	HB	ILE	73	-22.113	1.688	12.435	1.00	0.03
ATOM	376	HG12	ILE	73	-20.827	-0.032	10.845	1.00	0.03
ATOM	377	HG11	ILE	73	-20.611	-0.992	12.309	1.00	0.03
ATOM	378	HG23	ILE	73	-22.952	0.840	14.572	1.00	0.02
ATOM	379	HG22	ILE	73	-21.209	0.488	14.582	1.00	0.02
ATOM	380	HG21	ILE	73	-22.365	-0.810	14.220	1.00	0.02
ATOM	381	HD13	ILE	73	-19.731	1.977	12.021	1.00	0.02
ATOM	382	HD12	ILE	73	-18.658	0.605	11.692	1.00	0.02
ATOM	383	HD11	ILE	73	-19.289	0.849	13.337	1.00	0.02
ATOM	384	N	TRP	74	-25.125	1.578	12.301	1.00	-0.26
ATOM	385	CA	TRP	74	-26.405	1.888	12.926	1.00	0.14
ATOM	386	C	TRP	74	-27.431	0.870	12.484	1.00	0.21
ATOM	387	O	TRP	74	-28.248	0.468	13.298	1.00	-0.39
ATOM	388	CB	TRP	74	-26.884	3.339	12.668	1.00	0.00
ATOM	389	CG	TRP	74	-25.926	4.307	13.315	1.00	-0.04
ATOM	390	CD1	TRP	74	-25.173	5.244	12.714	1.00	0.02
ATOM	391	CD2	TRP	74	-25.633	4.391	14.793	1.00	-0.02
ATOM	392	NE1	TRP	74	-24.443	5.857	13.612	1.00	-0.29
ATOM	393	CE2	TRP	74	-24.654	5.365	14.848	1.00	0.06
ATOM	394	CE3	TRP	74	-26.108	3.763	15.944	1.00	-0.07
ATOM	395	CZ2	TRP	74	-24.033	5.717	16.045	1.00	-0.04
ATOM	396	CZ3	TRP	74	-25.482	4.092	17.153	1.00	-0.08
ATOM	397	CH2	TRP	74	-24.456	5.049	17.202	1.00	-0.08
ATOM	398	H	TRP	74	-24.696	2.240	11.680	1.00	0.19
ATOM	399	HA	TRP	74	-26.271	1.758	14.008	1.00	0.08
ATOM	400	HB2	TRP	74	-27.876	3.489	13.119	1.00	0.04
ATOM	401	HB1	TRP	74	-26.963	3.512	11.584	1.00	0.04
ATOM	402	HD1	TRP	74	-25.169	5.457	11.645	1.00	0.08
ATOM	403	HE1	TRP	74	-23.786	6.622	13.403	1.00	0.22
ATOM	404	HE3	TRP	74	-26.930	3.057	15.909	1.00	0.05
ATOM	405	HZ2	TRP	74	-23.255	6.473	16.075	1.00	0.05
ATOM	406	HZ3	TRP	74	-25.798	3.599	18.067	1.00	0.05
ATOM	407	HH2	TRP	74	-23.982	5.277	18.152	1.00	0.05
ATOM	408	N	MET	75	-27.404	0.396	11.219	1.00	-0.26
ATOM	409	CA	MET	75	-28.276	-0.721	10.863	1.00	0.13
ATOM	410	C	MET	75	-27.905	-1.919	11.710	1.00	0.20
ATOM	411	O	MET	75	-28.794	-2.539	12.271	1.00	-0.39
ATOM	412	CB	MET	75	-28.236	-1.082	9.354	1.00	0.00
ATOM	413	CG	MET	75	-28.824	0.051	8.473	1.00	0.00
ATOM	414	SD	MET	75	-28.568	-0.390	6.723	1.00	-0.16
ATOM	415	CE	MET	75	-29.591	0.881	5.918	1.00	-0.02

ATOM	416	H	MET	75	-26.742	0.743	10.548	1.00	0.19
ATOM	417	HA	MET	75	-29.313	-0.450	11.108	1.00	0.08
ATOM	418	HB2	MET	75	-28.832	-1.992	9.185	1.00	0.03
ATOM	419	HB1	MET	75	-27.202	-1.297	9.051	1.00	0.03
ATOM	420	HG2	MET	75	-28.327	1.013	8.660	1.00	0.04
ATOM	421	HG1	MET	75	-29.901	0.166	8.672	1.00	0.04
ATOM	422	LPD2	MET	75	-29.458	-1.147	7.117	1.00	0.00
ATOM	423	LPD1	MET	75	-28.350	-1.134	7.115	1.00	0.00
ATOM	424	HE3	MET	75	-30.649	0.717	6.169	1.00	0.03
ATOM	425	HE2	MET	75	-29.462	0.808	4.828	1.00	0.03
ATOM	426	HE1	MET	75	-29.289	1.884	6.253	1.00	0.03
ATOM	427	N	PHE	76	-26.610	-2.275	11.859	1.00	-0.26
ATOM	428	CA	PHE	76	-26.277	-3.386	12.753	1.00	0.14
ATOM	429	C	PHE	76	-26.882	-3.125	14.120	1.00	0.21
ATOM	430	O	PHE	76	-27.434	-4.038	14.713	1.00	-0.39
ATOM	431	CB	PHE	76	-24.755	-3.636	12.957	1.00	0.02
ATOM	432	CG	PHE	76	-23.898	-3.779	11.686	1.00	-0.04
ATOM	433	CD1	PHE	76	-24.443	-3.971	10.410	1.00	-0.06
ATOM	434	CD2	PHE	76	-22.505	-3.705	11.818	1.00	-0.06
ATOM	435	CE1	PHE	76	-23.616	-3.996	9.282	1.00	-0.07
ATOM	436	CE2	PHE	76	-21.675	-3.716	10.693	1.00	-0.07
ATOM	437	CZ	PHE	76	-22.233	-3.849	9.419	1.00	-0.07
ATOM	438	H	PHE	76	-25.877	-1.771	11.391	1.00	0.19
ATOM	439	HA	PHE	76	-26.728	-4.304	12.343	1.00	0.08
ATOM	440	HB2	PHE	76	-24.621	-4.554	13.551	1.00	0.05
ATOM	441	HB1	PHE	76	-24.342	-2.799	13.541	1.00	0.05
ATOM	442	HD1	PHE	76	-25.509	-4.101	10.271	1.00	0.06
ATOM	443	HD2	PHE	76	-22.057	-3.632	12.804	1.00	0.06
ATOM	444	HE1	PHE	76	-24.052	-4.129	8.297	1.00	0.06
ATOM	445	HE2	PHE	76	-20.599	-3.617	10.807	1.00	0.06
ATOM	446	HZ	PHE	76	-21.595	-3.838	8.541	1.00	0.06
ATOM	447	N	VAL	87	-26.809	-1.885	14.653	1.00	-0.26
ATOM	448	CA	VAL	87	-27.435	-1.604	15.947	1.00	0.13
ATOM	449	C	VAL	87	-28.932	-1.782	15.829	1.00	0.20
ATOM	450	O	VAL	87	-29.542	-2.351	16.721	1.00	-0.39
ATOM	451	CB	VAL	87	-27.103	-0.187	16.500	1.00	-0.01
ATOM	452	CG1	VAL	87	-27.897	0.120	17.802	1.00	-0.06
ATOM	453	CG2	VAL	87	-25.580	-0.034	16.778	1.00	-0.06
ATOM	454	H	VAL	87	-26.373	-1.142	14.139	1.00	0.19
ATOM	455	HA	VAL	87	-27.069	-2.337	16.679	1.00	0.08
ATOM	456	HB	VAL	87	-27.413	0.550	15.745	1.00	0.03
ATOM	457	HG13	VAL	87	-28.982	0.137	17.616	1.00	0.02
ATOM	458	HG12	VAL	87	-27.611	1.106	18.201	1.00	0.02
ATOM	459	HG11	VAL	87	-27.685	-0.643	18.568	1.00	0.02
ATOM	460	HG23	VAL	87	-25.272	-0.709	17.589	1.00	0.02
ATOM	461	HG22	VAL	87	-25.347	0.999	17.080	1.00	0.02
ATOM	462	HG21	VAL	87	-24.977	-0.268	15.889	1.00	0.02
ATOM	463	N	PHE	78	-29.577	-1.319	14.740	1.00	-0.26
ATOM	464	CA	PHE	78	-31.002	-1.606	14.592	1.00	0.14
ATOM	465	C	PHE	78	-31.198	-3.107	14.619	1.00	0.21
ATOM	466	O	PHE	78	-32.144	-3.575	15.231	1.00	-0.39
ATOM	467	CB	PHE	78	-31.603	-1.032	13.280	1.00	0.02
ATOM	468	CG	PHE	78	-31.326	0.462	13.029	1.00	-0.04
ATOM	469	CD1	PHE	78	-30.901	1.343	14.034	1.00	-0.06
ATOM	470	CD2	PHE	78	-31.499	0.958	11.731	1.00	-0.06
ATOM	471	CE1	PHE	78	-30.586	2.670	13.728	1.00	-0.07
ATOM	472	CE2	PHE	78	-31.173	2.281	11.418	1.00	-0.07
ATOM	473	CZ	PHE	78	-30.709	3.139	12.418	1.00	-0.07

ATOM	474	H	PHE	78	-29.084	-0.837	14.008	1.00	0.19
ATOM	475	HA	PHE	78	-31.550	-1.187	15.451	1.00	0.08
ATOM	476	HB2	PHE	78	-32.694	-1.185	13.281	1.00	0.05
ATOM	477	HB1	PHE	78	-31.184	-1.604	12.438	1.00	0.05
ATOM	478	HD1	PHE	78	-30.804	1.018	15.062	1.00	0.06
ATOM	479	HD2	PHE	78	-31.888	0.311	10.950	1.00	0.06
ATOM	480	HE1	PHE	78	-30.242	3.339	14.511	1.00	0.06
ATOM	481	HE2	PHE	78	-31.280	2.641	10.400	1.00	0.06
ATOM	482	HZ	PHE	78	-30.447	4.165	12.178	1.00	0.06
ATOM	483	N	HIS	79	-30.305	-3.887	13.971	1.00	-0.26
ATOM	484	CA	HIS	79	-30.436	-5.344	14.002	1.00	0.14
ATOM	485	C	HIS	79	-30.140	-5.879	15.388	1.00	0.21
ATOM	486	O	HIS	79	-30.765	-6.849	15.783	1.00	-0.39
ATOM	487	CB	HIS	79	-29.527	-5.992	12.923	1.00	0.04
ATOM	488	CG	HIS	79	-29.724	-5.339	11.573	1.00	0.06
ATOM	489	ND1	HIS	79	-28.849	-5.411	10.593	1.00	-0.26
ATOM	490	CD2	HIS	79	-30.784	-4.600	11.180	1.00	-0.03
ATOM	491	CE1	HIS	79	-29.280	-4.742	9.571	1.00	0.09
ATOM	492	NE2	HIS	79	-30.398	-4.247	9.842	1.00	-0.34
ATOM	493	H	HIS	79	-29.530	-3.474	13.483	1.00	0.19
ATOM	494	HA	HIS	79	-31.481	-5.615	13.775	1.00	0.08
ATOM	495	HB2	HIS	79	-29.728	-7.071	12.839	1.00	0.05
ATOM	496	HB1	HIS	79	-28.479	-5.863	13.227	1.00	0.05
ATOM	497	HD1	HIS	79	-27.946	-5.920	10.628	1.00	0.24
ATOM	498	HD2	HIS	79	-31.699	-4.318	11.698	1.00	0.03
ATOM	499	HE1	HIS	79	-28.786	-4.600	8.611	1.00	0.11
ATOM	500	N	MET	80	-29.219	-5.273	16.171	1.00	-0.26
ATOM	501	CA	MET	80	-29.122	-5.644	17.584	1.00	0.13
ATOM	502	C	MET	80	-30.457	-5.353	18.235	1.00	0.20
ATOM	503	O	MET	80	-30.966	-6.168	18.990	1.00	-0.39
ATOM	504	CB	MET	80	-28.088	-4.816	18.403	1.00	0.00
ATOM	505	CG	MET	80	-26.618	-5.003	17.954	1.00	0.00
ATOM	506	SD	MET	80	-25.619	-3.712	18.773	1.00	-0.16
ATOM	507	CE	MET	80	-24.231	-3.524	17.612	1.00	-0.02
ATOM	508	H	MET	80	-28.664	-4.518	15.813	1.00	0.19
ATOM	509	HA	MET	80	-28.899	-6.719	17.680	1.00	0.08
ATOM	510	HB2	MET	80	-28.155	-5.095	19.468	1.00	0.03
ATOM	511	HB1	MET	80	-28.343	-3.750	18.329	1.00	0.03
ATOM	512	HG2	MET	80	-26.512	-4.904	16.866	1.00	0.04
ATOM	513	HG1	MET	80	-26.254	-5.994	18.260	1.00	0.04
ATOM	514	LPD2	MET	80	-26.170	-4.516	19.490	1.00	0.00
ATOM	515	LPD1	MET	80	-26.554	-3.811	18.725	1.00	0.00
ATOM	516	HE3	MET	80	-23.689	-4.473	17.511	1.00	0.03
ATOM	517	HE2	MET	80	-23.548	-2.759	18.008	1.00	0.03
ATOM	518	HE1	MET	80	-24.598	-3.207	16.624	1.00	0.03
ATOM	519	N	ARG	81	-31.057	-4.173	17.974	1.00	-0.26
ATOM	520	CA	ARG	81	-32.295	-3.813	18.666	1.00	0.13
ATOM	521	C	ARG	81	-33.477	-4.575	18.098	1.00	0.25
ATOM	522	O	ARG	81	-34.439	-3.980	17.641	1.00	-0.33
ATOM	523	CB	ARG	81	-32.480	-2.268	18.617	1.00	-0.01
ATOM	524	CG	ARG	81	-33.564	-1.748	19.604	1.00	-0.02
ATOM	525	CD	ARG	81	-33.689	-0.199	19.543	1.00	0.06
ATOM	526	NE	ARG	81	-34.693	0.307	20.488	1.00	-0.27
ATOM	527	CZ	ARG	81	-34.967	1.582	20.653	1.00	0.29
ATOM	528	NH1	ARG	81	-34.367	2.528	19.974	1.00	-0.28
ATOM	529	NH2	ARG	81	-35.876	1.928	21.532	1.00	-0.28
ATOM	530	H	ARG	81	-30.667	-3.534	17.302	1.00	0.19
ATOM	531	HA	ARG	81	-32.206	-4.099	19.727	1.00	0.08

ATOM	532	HB2	ARG	81	-32.729	-1.971	17.586	1.00	0.03
ATOM	533	HB1	ARG	81	-31.518	-1.800	18.885	1.00	0.03
ATOM	534	HG2	ARG	81	-33.294	-2.043	20.631	1.00	0.03
ATOM	535	HG1	ARG	81	-34.543	-2.193	19.366	1.00	0.03
ATOM	536	HD2	ARG	81	-33.968	0.075	18.511	1.00	0.07
ATOM	537	HD1	ARG	81	-32.699	0.223	19.784	1.00	0.07
ATOM	538	HE	ARG	81	-35.203	-0.394	21.050	1.00	0.26
ATOM	539	HH11	ARG	81	-33.651	2.315	19.270	1.00	0.26
ATOM	540	HH12	ARG	81	-34.598	3.520	20.122	1.00	0.26
ATOM	541	HH21	ARG	81	-36.377	1.222	22.092	1.00	0.26
ATOM	542	HH22	ARG	81	-36.119	2.916	21.692	1.00	0.26
TER	543	ARG	81						
ATOM	544	C	ACE	86	-26.162	-11.300	18.474	1.00	0.18
ATOM	545	O	ACE	86	-26.571	-10.372	17.801	1.00	-0.40
ATOM	546	CH3	ACE	86	-26.277	-12.698	17.928	1.00	0.03
ATOM	547	H	ACE	86	-26.727	-13.363	18.680	1.00	0.05
ATOM	548	H	ACE	86	-25.277	-13.069	17.665	1.00	0.05
ATOM	549	H	ACE	86	-26.909	-12.709	17.026	1.00	0.05
ATOM	550	N	SER	87	-25.600	-11.120	19.689	1.00	-0.26
ATOM	551	CA	SER	87	-25.468	-9.780	20.267	1.00	0.15
ATOM	552	C	SER	87	-24.004	-9.436	20.419	1.00	0.21
ATOM	553	O	SER	87	-23.510	-8.582	19.701	1.00	-0.39
ATOM	554	CB	SER	87	-26.151	-9.787	21.657	1.00	0.08
ATOM	555	OG	SER	87	-25.512	-10.794	22.469	1.00	-0.39
ATOM	556	H	SER	87	-25.274	-11.897	20.231	1.00	0.19
ATOM	557	HA	SER	87	-25.943	-8.995	19.653	1.00	0.08
ATOM	558	HB2	SER	87	-27.221	-10.020	21.525	1.00	0.06
ATOM	559	HB1	SER	87	-26.056	-8.793	22.125	1.00	0.06
ATOM	560	HG	SER	87	-25.900	-10.866	23.338	1.00	0.21
ATOM	561	N	VAL	88	-23.276	-10.095	21.346	1.00	-0.26
ATOM	562	CA	VAL	88	-21.859	-9.775	21.525	1.00	0.13
ATOM	563	C	VAL	88	-21.157	-9.815	20.187	1.00	0.20
ATOM	564	O	VAL	88	-20.375	-8.923	19.903	1.00	-0.39
ATOM	565	CB	VAL	88	-21.154	-10.707	22.557	1.00	-0.01
ATOM	566	CG1	VAL	88	-19.609	-10.529	22.518	1.00	-0.06
ATOM	567	CG2	VAL	88	-21.667	-10.426	23.999	1.00	-0.06
ATOM	568	H	VAL	88	-23.715	-10.785	21.926	1.00	0.19
ATOM	569	HA	VAL	88	-21.787	-8.743	21.895	1.00	0.08
ATOM	570	HB	VAL	88	-21.381	-11.755	22.292	1.00	0.03
ATOM	571	HG13	VAL	88	-19.199	-10.855	21.551	1.00	0.02
ATOM	572	HG12	VAL	88	-19.129	-11.134	23.302	1.00	0.02
ATOM	573	HG11	VAL	88	-19.342	-9.473	22.677	1.00	0.02
ATOM	574	HG23	VAL	88	-21.418	-9.396	24.300	1.00	0.02
ATOM	575	HG22	VAL	88	-21.194	-11.118	24.713	1.00	0.02
ATOM	576	HG21	VAL	88	-22.756	-10.554	24.078	1.00	0.02
ATOM	577	N	TYR	89	-21.416	-10.821	19.327	1.00	-0.26
ATOM	578	CA	TYR	89	-20.757	-10.822	18.021	1.00	0.14
ATOM	579	C	TYR	89	-21.127	-9.571	17.251	1.00	0.21
ATOM	580	O	TYR	89	-20.250	-8.937	16.686	1.00	-0.39
ATOM	581	CB	TYR	89	-21.113	-12.083	17.192	1.00	0.02
ATOM	582	CG	TYR	89	-20.798	-13.350	18.005	1.00	-0.05
ATOM	583	CD1	TYR	89	-19.469	-13.706	18.262	1.00	-0.07
ATOM	584	CD2	TYR	89	-21.827	-14.157	18.504	1.00	-0.07
ATOM	585	CE1	TYR	89	-19.175	-14.822	19.051	1.00	-0.04
ATOM	586	CE2	TYR	89	-21.533	-15.281	19.281	1.00	-0.04
ATOM	587	CZ	TYR	89	-20.204	-15.609	19.574	1.00	0.08
ATOM	588	OH	TYR	89	-19.895	-16.714	20.379	1.00	-0.34
ATOM	589	H	TYR	89	-22.060	-11.546	19.569	1.00	0.19

ATOM	590	HA	TYR	89	-19.668	-10.809	18.183	1.00	0.08
ATOM	591	HB1	TYR	89	-20.528	-12.096	16.258	1.00	0.05
ATOM	592	HB2	TYR	89	-22.180	-12.049	16.921	1.00	0.05
ATOM	593	HD1	TYR	89	-18.657	-13.114	17.852	1.00	0.05
ATOM	594	HD2	TYR	89	-22.864	-13.917	18.295	1.00	0.05
ATOM	595	HE1	TYR	89	-18.142	-15.076	19.262	1.00	0.05
ATOM	596	HE2	TYR	89	-22.344	-15.899	19.655	1.00	0.05
ATOM	597	HH	TYR	89	-20.565	-16.831	21.051	1.00	0.25
ATOM	598	N	MET	90	-22.416	-9.165	17.214	1.00	-0.26
ATOM	599	CA	MET	90	-22.737	-7.897	16.561	1.00	0.13
ATOM	600	C	MET	90	-21.979	-6.788	17.254	1.00	0.20
ATOM	601	O	MET	90	-21.516	-5.886	16.574	1.00	-0.39
ATOM	602	CB	MET	90	-24.241	-7.518	16.601	1.00	0.00
ATOM	603	CG	MET	90	-25.146	-8.400	15.705	1.00	0.00
ATOM	604	SD	MET	90	-26.838	-7.755	15.941	1.00	-0.16
ATOM	605	CE	MET	90	-27.870	-8.976	15.083	1.00	-0.02
ATOM	606	H	MET	90	-23.136	-9.659	17.707	1.00	0.19
ATOM	607	HA	MET	90	-22.415	-7.934	15.509	1.00	0.08
ATOM	608	HB2	MET	90	-24.355	-6.479	16.250	1.00	0.03
ATOM	609	HB1	MET	90	-24.583	-7.575	17.644	1.00	0.03
ATOM	610	HG2	MET	90	-25.086	-9.456	16.004	1.00	0.04
ATOM	611	HG1	MET	90	-24.870	-8.312	14.643	1.00	0.04
ATOM	612	LPD2	MET	90	-27.711	-9.545	16.796	1.00	0.00
ATOM	613	LPD1	MET	90	-27.629	-10.095	17.755	1.00	0.00
ATOM	614	HE3	MET	90	-27.682	-8.905	14.006	1.00	0.03
ATOM	615	HE2	MET	90	-28.928	-8.750	15.279	1.00	0.03
ATOM	616	HE1	MET	90	-27.645	-9.991	15.438	1.00	0.03
ATOM	617	N	PHE	91	-21.834	-6.814	18.597	1.00	-0.26
ATOM	618	CA	PHE	91	-21.068	-5.756	19.253	1.00	0.14
ATOM	619	C	PHE	91	-19.643	-5.815	18.750	1.00	0.21
ATOM	620	O	PHE	91	-19.095	-4.789	18.381	1.00	-0.39
ATOM	621	CB	PHE	91	-21.044	-5.852	20.805	1.00	0.02
ATOM	622	CG	PHE	91	-22.410	-5.997	21.501	1.00	-0.04
ATOM	623	CD1	PHE	91	-23.634	-5.838	20.841	1.00	-0.06
ATOM	624	CD2	PHE	91	-22.420	-6.308	22.867	1.00	-0.06
ATOM	625	CE1	PHE	91	-24.842	-6.030	21.519	1.00	-0.07
ATOM	626	CE2	PHE	91	-23.623	-6.500	23.550	1.00	-0.07
ATOM	627	CZ	PHE	91	-24.838	-6.356	22.877	1.00	-0.07
ATOM	628	H	PHE	91	-22.219	-7.559	19.149	1.00	0.19
ATOM	629	HA	PHE	91	-21.495	-4.778	18.977	1.00	0.08
ATOM	630	HB2	PHE	91	-20.553	-4.952	21.209	1.00	0.05
ATOM	631	HB1	PHE	91	-20.433	-6.720	21.096	1.00	0.05
ATOM	632	HD1	PHE	91	-23.672	-5.565	19.795	1.00	0.06
ATOM	633	HD2	PHE	91	-21.483	-6.405	23.408	1.00	0.06
ATOM	634	HE1	PHE	91	-25.784	-5.925	20.991	1.00	0.06
ATOM	635	HE2	PHE	91	-23.614	-6.761	24.605	1.00	0.06
ATOM	636	HZ	PHE	91	-25.775	-6.494	23.408	1.00	0.06
ATOM	637	N	ASN	92	-19.008	-7.007	18.716	1.00	-0.26
ATOM	638	CA	ASN	92	-17.638	-7.076	18.216	1.00	0.15
ATOM	639	C	ASN	92	-17.580	-6.566	16.795	1.00	0.21
ATOM	640	O	ASN	92	-16.656	-5.844	16.459	1.00	-0.39
ATOM	641	CB	ASN	92	-17.057	-8.516	18.206	1.00	0.08
ATOM	642	CG	ASN	92	-17.145	-9.235	19.530	1.00	0.18
ATOM	643	OD1	ASN	92	-17.606	-10.364	19.552	1.00	-0.40
ATOM	644	ND2	ASN	92	-16.706	-8.656	20.666	1.00	-0.30
ATOM	645	H	ASN	92	-19.471	-7.850	19.005	1.00	0.19
ATOM	646	HA	ASN	92	-17.003	-6.420	18.832	1.00	0.08
ATOM	647	HB2	ASN	92	-16.000	-8.490	17.901	1.00	0.06

ATOM	648	HB1	ASN	92	-17.609	-9.110	17.460	1.00	0.06
ATOM	649	HD21	ASN	92	-16.295	-7.747	20.686	1.00	0.18
ATOM	650	HD22	ASN	92	-16.788	-9.173	21.518	1.00	0.18
ATOM	651	N	LEU	93	-18.550	-6.936	15.934	1.00	-0.26
ATOM	652	CA	LEU	93	-18.503	-6.456	14.553	1.00	0.13
ATOM	653	C	LEU	93	-18.743	-4.962	14.515	1.00	0.20
ATOM	654	O	LEU	93	-18.040	-4.264	13.802	1.00	-0.39
ATOM	655	CB	LEU	93	-19.546	-7.186	13.664	1.00	-0.01
ATOM	656	CG	LEU	93	-19.292	-8.721	13.533	1.00	-0.04
ATOM	657	CD1	LEU	93	-20.551	-9.405	12.933	1.00	-0.06
ATOM	658	CD2	LEU	93	-18.032	-9.042	12.680	1.00	-0.06
ATOM	659	H	LEU	93	-19.321	-7.506	16.242	1.00	0.19
ATOM	660	HA	LEU	93	-17.497	-6.625	14.141	1.00	0.08
ATOM	661	HB2	LEU	93	-19.550	-6.731	12.660	1.00	0.03
ATOM	662	HB1	LEU	93	-20.536	-7.005	14.110	1.00	0.03
ATOM	663	HG	LEU	93	-19.124	-9.174	14.522	1.00	0.03
ATOM	664	HD13	LEU	93	-21.418	-9.274	13.599	1.00	0.02
ATOM	665	HD12	LEU	93	-20.389	-10.487	12.803	1.00	0.02
ATOM	666	HD11	LEU	93	-20.791	-8.957	11.960	1.00	0.02
ATOM	667	HD23	LEU	93	-18.089	-8.536	11.709	1.00	0.02
ATOM	668	HD22	LEU	93	-17.950	-10.126	12.505	1.00	0.02
ATOM	669	HD21	LEU	93	-17.109	-8.722	13.184	1.00	0.02
ATOM	670	N	ALA	94	-19.726	-4.431	15.271	1.00	-0.26
ATOM	671	CA	ALA	94	-19.924	-2.982	15.294	1.00	0.13
ATOM	672	C	ALA	94	-18.686	-2.293	15.818	1.00	0.20
ATOM	673	O	ALA	94	-18.266	-1.302	15.244	1.00	-0.39
ATOM	674	CB	ALA	94	-21.118	-2.602	16.206	1.00	-0.02
ATOM	675	H	ALA	94	-20.299	-5.016	15.852	1.00	0.19
ATOM	676	HA	ALA	94	-20.116	-2.620	14.270	1.00	0.08
ATOM	677	HB3	ALA	94	-20.970	-3.006	17.218	1.00	0.03
ATOM	678	HB2	ALA	94	-22.046	-3.019	15.786	1.00	0.03
ATOM	679	HB1	ALA	94	-21.217	-1.509	16.285	1.00	0.03
ATOM	680	N	LEU	95	-18.080	-2.796	16.913	1.00	-0.26
ATOM	681	CA	LEU	95	-16.861	-2.168	17.420	1.00	0.13
ATOM	682	C	LEU	95	-15.763	-2.301	16.388	1.00	0.20
ATOM	683	O	LEU	95	-15.078	-1.329	16.106	1.00	-0.39
ATOM	684	CB	LEU	95	-16.415	-2.806	18.766	1.00	-0.01
ATOM	685	CG	LEU	95	-17.405	-2.534	19.943	1.00	-0.04
ATOM	686	CD1	LEU	95	-17.161	-3.551	21.094	1.00	-0.06
ATOM	687	CD2	LEU	95	-17.283	-1.084	20.492	1.00	-0.06
ATOM	688	H	LEU	95	-18.433	-3.628	17.352	1.00	0.19
ATOM	689	HA	LEU	95	-17.029	-1.094	17.570	1.00	0.08
ATOM	690	HB2	LEU	95	-15.417	-2.429	19.042	1.00	0.03
ATOM	691	HB1	LEU	95	-16.320	-3.890	18.596	1.00	0.03
ATOM	692	HG	LEU	95	-18.445	-2.670	19.600	1.00	0.03
ATOM	693	HD13	LEU	95	-17.325	-4.582	20.742	1.00	0.02
ATOM	694	HD12	LEU	95	-17.854	-3.367	21.930	1.00	0.02
ATOM	695	HD11	LEU	95	-16.129	-3.465	21.466	1.00	0.02
ATOM	696	HD23	LEU	95	-16.259	-0.892	20.846	1.00	0.02
ATOM	697	HD22	LEU	95	-17.973	-0.938	21.337	1.00	0.02
ATOM	698	HD21	LEU	95	-17.535	-0.335	19.727	1.00	0.02
ATOM	699	N	ALA	96	-15.571	-3.502	15.803	1.00	-0.26
ATOM	700	CA	ALA	96	-14.515	-3.656	14.807	1.00	0.13
ATOM	701	C	ALA	96	-14.781	-2.770	13.611	1.00	0.20
ATOM	702	O	ALA	96	-13.848	-2.174	13.100	1.00	-0.39
ATOM	703	CB	ALA	96	-14.389	-5.129	14.338	1.00	-0.02
ATOM	704	H	ALA	96	-16.151	-4.291	16.028	1.00	0.19
ATOM	705	HA	ALA	96	-13.556	-3.364	15.265	1.00	0.08

ATOM	706	HB3	ALA	96	-15.297	-5.435	13.797	1.00	0.03
ATOM	707	HB2	ALA	96	-14.248	-5.793	15.204	1.00	0.03
ATOM	708	HB1	ALA	96	-13.522	-5.243	13.671	1.00	0.03
ATOM	709	N	ASP	97	-16.039	-2.660	13.131	1.00	-0.26
ATOM	710	CA	ASP	97	-16.304	-1.817	11.962	1.00	0.14
ATOM	711	C	ASP	97	-16.232	-0.355	12.370	1.00	0.21
ATOM	712	O	ASP	97	-15.672	0.444	11.633	1.00	-0.39
ATOM	713	CB	ASP	97	-17.643	-2.236	11.298	1.00	0.03
ATOM	714	CG	ASP	97	-17.759	-1.810	9.858	1.00	0.03
ATOM	715	OD1	ASP	97	-18.285	-0.705	9.555	1.00	-0.57
ATOM	716	OD2	ASP	97	-17.319	-2.593	8.979	1.00	-0.57
ATOM	717	H	ASP	97	-16.803	-3.135	13.579	1.00	0.19
ATOM	718	HA	ASP	97	-15.516	-2.003	11.216	1.00	0.08
ATOM	719	HB2	ASP	97	-18.483	-1.866	11.895	1.00	0.05
ATOM	720	HB1	ASP	97	-17.703	-3.336	11.288	1.00	0.05
ATOM	721	N	PHE	98	-16.746	0.056	13.556	1.00	-0.26
ATOM	722	CA	PHE	98	-16.565	1.447	13.989	1.00	0.14
ATOM	723	C	PHE	98	-15.109	1.848	13.882	1.00	0.21
ATOM	724	O	PHE	98	-14.854	3.018	13.637	1.00	-0.39
ATOM	725	CB	PHE	98	-17.005	1.760	15.453	1.00	0.02
ATOM	726	CG	PHE	98	-18.505	2.053	15.665	1.00	-0.04
ATOM	727	CD1	PHE	98	-19.132	3.094	14.969	1.00	-0.06
ATOM	728	CD2	PHE	98	-19.263	1.313	16.582	1.00	-0.06
ATOM	729	CE1	PHE	98	-20.479	3.398	15.189	1.00	-0.07
ATOM	730	CE2	PHE	98	-20.596	1.645	16.844	1.00	-0.07
ATOM	731	CZ	PHE	98	-21.208	2.691	16.148	1.00	-0.07
ATOM	732	H	PHE	98	-17.226	-0.583	14.164	1.00	0.19
ATOM	733	HA	PHE	98	-17.104	2.096	13.284	1.00	0.08
ATOM	734	HB2	PHE	98	-16.514	2.686	15.794	1.00	0.05
ATOM	735	HB1	PHE	98	-16.648	0.947	16.102	1.00	0.05
ATOM	736	HD1	PHE	98	-18.576	3.688	14.255	1.00	0.06
ATOM	737	HD2	PHE	98	-18.822	0.476	17.109	1.00	0.06
ATOM	738	HE1	PHE	98	-20.960	4.186	14.617	1.00	0.06
ATOM	739	HE2	PHE	98	-21.159	1.087	17.586	1.00	0.06
ATOM	740	HZ	PHE	98	-22.244	2.949	16.346	1.00	0.06
ATOM	741	N	LEU	99	-14.134	0.923	14.041	1.00	-0.26
ATOM	742	CA	LEU	99	-12.744	1.313	13.807	1.00	0.13
ATOM	743	C	LEU	99	-12.648	2.088	12.513	1.00	0.20
ATOM	744	O	LEU	99	-11.889	3.041	12.470	1.00	-0.39
ATOM	745	CB	LEU	99	-11.738	0.135	13.672	1.00	-0.01
ATOM	746	CG	LEU	99	-11.546	-0.734	14.952	1.00	-0.04
ATOM	747	CD1	LEU	99	-10.662	-1.968	14.613	1.00	-0.06
ATOM	748	CD2	LEU	99	-10.908	0.068	16.121	1.00	-0.06
ATOM	749	H	LEU	99	-14.349	-0.026	14.285	1.00	0.19
ATOM	750	HA	LEU	99	-12.432	1.995	14.613	1.00	0.08
ATOM	751	HB2	LEU	99	-10.751	0.541	13.392	1.00	0.03
ATOM	752	HB1	LEU	99	-12.079	-0.493	12.836	1.00	0.03
ATOM	753	HG	LEU	99	-12.522	-1.110	15.295	1.00	0.03
ATOM	754	HD13	LEU	99	-11.119	-2.566	13.809	1.00	0.02
ATOM	755	HD12	LEU	99	-10.547	-2.617	15.495	1.00	0.02
ATOM	756	HD11	LEU	99	-9.662	-1.646	14.284	1.00	0.02
ATOM	757	HD23	LEU	99	-9.959	0.525	15.803	1.00	0.02
ATOM	758	HD22	LEU	99	-10.704	-0.599	16.973	1.00	0.02
ATOM	759	HD21	LEU	99	-11.581	0.861	16.479	1.00	0.02
ATOM	760	N	TYR	100	-13.380	1.742	11.434	1.00	-0.26
ATOM	761	CA	TYR	100	-13.259	2.550	10.223	1.00	0.14
ATOM	762	C	TYR	100	-13.766	3.953	10.453	1.00	0.21
ATOM	763	O	TYR	100	-13.136	4.898	10.002	1.00	-0.39

ATOM	764	CB	TYR	100	-14.034	1.963	9.018	1.00	0.02
ATOM	765	CG	TYR	100	-13.586	0.516	8.798	1.00	-0.05
ATOM	766	CD1	TYR	100	-12.254	0.220	8.490	1.00	-0.07
ATOM	767	CD2	TYR	100	-14.511	-0.525	8.924	1.00	-0.07
ATOM	768	CE1	TYR	100	-11.817	-1.107	8.471	1.00	-0.04
ATOM	769	CE2	TYR	100	-14.085	-1.849	8.832	1.00	-0.04
ATOM	770	CZ	TYR	100	-12.730	-2.145	8.681	1.00	0.08
ATOM	771	OH	TYR	100	-12.311	-3.472	8.742	1.00	-0.34
ATOM	772	H	TYR	100	-14.030	0.974	11.459	1.00	0.19
ATOM	773	HA	TYR	100	-12.190	2.603	9.984	1.00	0.08
ATOM	774	HB1	TYR	100	-13.839	2.544	8.104	1.00	0.05
ATOM	775	HB2	TYR	100	-15.115	2.014	9.225	1.00	0.05
ATOM	776	HD1	TYR	100	-11.549	1.014	8.271	1.00	0.05
ATOM	777	HD2	TYR	100	-15.560	-0.317	9.100	1.00	0.05
ATOM	778	HE1	TYR	100	-10.770	-1.327	8.296	1.00	0.05
ATOM	779	HE2	TYR	100	-14.813	-2.647	8.881	1.00	0.05
ATOM	780	HH	TYR	100	-11.497	-3.608	8.283	1.00	0.25
ATOM	781	N	VAL	101	-14.914	4.092	11.151	1.00	-0.26
ATOM	782	CA	VAL	101	-15.479	5.418	11.394	1.00	0.13
ATOM	783	C	VAL	101	-14.539	6.207	12.272	1.00	0.20
ATOM	784	O	VAL	101	-14.447	7.409	12.095	1.00	-0.39
ATOM	785	CB	VAL	101	-16.878	5.344	12.079	1.00	-0.01
ATOM	786	CG1	VAL	101	-17.428	6.756	12.433	1.00	-0.06
ATOM	787	CG2	VAL	101	-17.911	4.607	11.181	1.00	-0.06
ATOM	788	H	VAL	101	-15.343	3.290	11.570	1.00	0.19
ATOM	789	HA	VAL	101	-15.576	5.949	10.433	1.00	0.08
ATOM	790	HB	VAL	101	-16.760	4.785	13.022	1.00	0.03
ATOM	791	HG13	VAL	101	-16.788	7.262	13.172	1.00	0.02
ATOM	792	HG12	VAL	101	-18.437	6.678	12.867	1.00	0.02
ATOM	793	HG11	VAL	101	-17.483	7.381	11.529	1.00	0.02
ATOM	794	HG23	VAL	101	-18.053	5.159	10.239	1.00	0.02
ATOM	795	HG22	VAL	101	-18.881	4.537	11.695	1.00	0.02
ATOM	796	HG21	VAL	101	-17.587	3.585	10.945	1.00	0.02
ATOM	797	N	LEU	102	-13.835	5.581	13.237	1.00	-0.26
ATOM	798	CA	LEU	102	-12.913	6.356	14.069	1.00	0.13
ATOM	799	C	LEU	102	-11.575	6.519	13.373	1.00	0.20
ATOM	800	O	LEU	102	-11.062	7.622	13.260	1.00	-0.39
ATOM	801	CB	LEU	102	-12.720	5.666	15.450	1.00	-0.01
ATOM	802	CG	LEU	102	-14.051	5.397	16.222	1.00	-0.04
ATOM	803	CD1	LEU	102	-13.747	4.634	17.542	1.00	-0.06
ATOM	804	CD2	LEU	102	-14.834	6.704	16.530	1.00	-0.06
ATOM	805	H	LEU	102	-13.913	4.585	13.364	1.00	0.19
ATOM	806	HA	LEU	102	-13.298	7.374	14.246	1.00	0.08
ATOM	807	HB2	LEU	102	-12.058	6.292	16.070	1.00	0.03
ATOM	808	HB1	LEU	102	-12.214	4.701	15.290	1.00	0.03
ATOM	809	HG	LEU	102	-14.709	4.748	15.620	1.00	0.03
ATOM	810	HD13	LEU	102	-13.229	3.685	17.330	1.00	0.02
ATOM	811	HD12	LEU	102	-14.679	4.399	18.079	1.00	0.02
ATOM	812	HD11	LEU	102	-13.109	5.244	18.199	1.00	0.02
ATOM	813	HD23	LEU	102	-14.190	7.422	17.058	1.00	0.02
ATOM	814	HD22	LEU	102	-15.707	6.486	17.164	1.00	0.02
ATOM	815	HD21	LEU	102	-15.209	7.171	15.607	1.00	0.02
ATOM	816	N	THR	103	-10.967	5.412	12.905	1.00	-0.26
ATOM	817	CA	THR	103	-9.614	5.473	12.361	1.00	0.16
ATOM	818	C	THR	103	-9.551	6.172	11.023	1.00	0.21
ATOM	819	O	THR	103	-8.709	7.040	10.856	1.00	-0.39
ATOM	820	CB	THR	103	-9.026	4.038	12.225	1.00	0.09
ATOM	821	OG1	THR	103	-9.035	3.438	13.535	1.00	-0.39

ATOM	822	CG2 THR	103	-7.587	4.040	11.650	1.00	-0.03
ATOM	823	H THR	103	-11.417	4.520	12.956	1.00	0.19
ATOM	824	HA THR	103	-8.974	6.017	13.075	1.00	0.08
ATOM	825	HB THR	103	-9.661	3.455	11.534	1.00	0.06
ATOM	826	HG1 THR	103	-8.751	2.530	13.537	1.00	0.21
ATOM	827	HG22THR	103	-7.176	3.018	11.635	1.00	0.03
ATOM	828	HG21THR	103	-6.928	4.675	12.262	1.00	0.03
ATOM	829	HG23THR	103	-7.603	4.415	10.618	1.00	0.03
ATOM	830	N LEU	104	-10.386	5.814	10.023	1.00	-0.26
ATOM	831	CA LEU	104	-10.149	6.371	8.691	1.00	0.13
ATOM	832	C LEU	104	-10.274	7.884	8.633	1.00	0.21
ATOM	833	O LEU	104	-9.351	8.493	8.108	1.00	-0.39
ATOM	834	CB LEU	104	-10.954	5.686	7.552	1.00	-0.01
ATOM	835	CG LEU	104	-10.710	4.153	7.398	1.00	-0.04
ATOM	836	CD1 LEU	104	-11.542	3.590	6.213	1.00	-0.06
ATOM	837	CD2 LEU	104	-9.215	3.796	7.189	1.00	-0.06
ATOM	838	H LEU	104	-11.146	5.173	10.170	1.00	0.19
ATOM	839	HA LEU	104	-9.088	6.183	8.462	1.00	0.08
ATOM	840	HB2 LEU	104	-10.653	6.169	6.611	1.00	0.03
ATOM	841	HB1 LEU	104	-12.027	5.869	7.707	1.00	0.03
ATOM	842	HG LEU	104	-11.048	3.642	8.307	1.00	0.03
ATOM	843	HD13LEU	104	-12.609	3.807	6.360	1.00	0.02
ATOM	844	HD12LEU	104	-11.431	2.497	6.131	1.00	0.02
ATOM	845	HD11LEU	104	-11.206	4.042	5.269	1.00	0.02
ATOM	846	HD23LEU	104	-8.787	4.443	6.411	1.00	0.02
ATOM	847	HD22LEU	104	-9.108	2.749	6.870	1.00	0.02
ATOM	848	HD21LEU	104	-8.645	3.911	8.122	1.00	0.02
ATOM	849	N PRO	105	-11.323	8.593	9.124	1.00	-0.25
ATOM	850	CA PRO	105	-11.269	10.041	9.046	1.00	0.13
ATOM	851	C PRO	105	-10.176	10.557	9.949	1.00	0.20
ATOM	852	O PRO	105	-9.609	11.582	9.613	1.00	-0.39
ATOM	853	CB PRO	105	-12.693	10.432	9.494	1.00	-0.01
ATOM	854	CG PRO	105	-13.134	9.263	10.399	1.00	-0.03
ATOM	855	CD PRO	105	-12.485	7.999	9.776	1.00	0.04
ATOM	856	HA PRO	105	-11.091	10.389	8.018	1.00	0.08
ATOM	857	HB2 PRO	105	-13.356	10.466	8.614	1.00	0.03
ATOM	858	HB1 PRO	105	-12.728	11.409	10.000	1.00	0.03
ATOM	859	HG1 PRO	105	-12.731	9.431	11.412	1.00	0.03
ATOM	860	HG2 PRO	105	-14.233	9.203	10.461	1.00	0.03
ATOM	861	HD1 PRO	105	-12.248	7.282	10.574	1.00	0.05
ATOM	862	HD2 PRO	105	-13.157	7.538	9.038	1.00	0.05
ATOM	863	N ALA	106	-9.814	9.900	11.073	1.00	-0.26
ATOM	864	CA ALA	106	-8.674	10.402	11.838	1.00	0.13
ATOM	865	C ALA	106	-7.431	10.323	10.978	1.00	0.20
ATOM	866	O ALA	106	-6.690	11.291	10.900	1.00	-0.39
ATOM	867	CB ALA	106	-8.454	9.611	13.153	1.00	-0.02
ATOM	868	H ALA	106	-10.255	9.047	11.362	1.00	0.19
ATOM	869	HA ALA	106	-8.856	11.458	12.101	1.00	0.08
ATOM	870	HB3 ALA	106	-8.235	8.554	12.943	1.00	0.03
ATOM	871	HB2 ALA	106	-9.356	9.668	13.781	1.00	0.03
ATOM	872	HB1 ALA	106	-7.608	10.039	13.712	1.00	0.03
ATOM	873	N LEU	107	-7.177	9.183	10.301	1.00	-0.26
ATOM	874	CA LEU	107	-6.008	9.117	9.425	1.00	0.13
ATOM	875	C LEU	107	-6.124	10.167	8.345	1.00	0.20
ATOM	876	O LEU	107	-5.183	10.911	8.121	1.00	-0.39
ATOM	877	CB LEU	107	-5.855	7.746	8.710	1.00	-0.01
ATOM	878	CG LEU	107	-5.521	6.541	9.635	1.00	-0.04
ATOM	879	CD1 LEU	107	-5.562	5.239	8.786	1.00	-0.06

ATOM	880	CD2 LEU	107	-4.135	6.674	10.324	1.00	-0.06
ATOM	881	H LEU	107	-7.804	8.399	10.357	1.00	0.19
ATOM	882	HA LEU	107	-5.103	9.352	10.003	1.00	0.08
ATOM	883	HB2 LEU	107	-5.053	7.822	7.966	1.00	0.03
ATOM	884	HB1 LEU	107	-6.791	7.543	8.167	1.00	0.03
ATOM	885	HG LEU	107	-6.282	6.473	10.426	1.00	0.03
ATOM	886	HD13LEU	107	-6.543	5.137	8.304	1.00	0.02
ATOM	887	HD12LEU	107	-5.398	4.350	9.410	1.00	0.02
ATOM	888	HD11LEU	107	-4.792	5.267	8.001	1.00	0.02
ATOM	889	HD23LEU	107	-3.341	6.819	9.575	1.00	0.02
ATOM	890	HD22LEU	107	-3.913	5.766	10.904	1.00	0.02
ATOM	891	HD21LEU	107	-4.118	7.515	11.027	1.00	0.02
ATOM	892	N ILE	108	-7.268	10.260	7.639	1.00	-0.26
ATOM	893	CA ILE	108	-7.359	11.271	6.584	1.00	0.13
ATOM	894	C ILE	108	-7.244	12.658	7.175	1.00	0.20
ATOM	895	O ILE	108	-6.661	13.521	6.539	1.00	-0.39
ATOM	896	CB ILE	108	-8.612	11.036	5.698	1.00	0.00
ATOM	897	CG1 ILE	108	-8.391	9.758	4.830	1.00	-0.05
ATOM	898	CG2 ILE	108	-8.932	12.271	4.812	1.00	-0.06
ATOM	899	CD1 ILE	108	-9.716	9.002	4.577	1.00	-0.06
ATOM	900	H ILE	108	-8.055	9.668	7.850	1.00	0.19
ATOM	901	HA ILE	108	-6.488	11.163	5.924	1.00	0.08
ATOM	902	HB ILE	108	-9.468	10.897	6.374	1.00	0.03
ATOM	903	HG12ILE	108	-7.712	9.045	5.329	1.00	0.03
ATOM	904	HG11ILE	108	-7.924	10.034	3.870	1.00	0.03
ATOM	905	HG23ILE	108	-9.197	13.129	5.448	1.00	0.02
ATOM	906	HG22ILE	108	-9.783	12.069	4.144	1.00	0.02
ATOM	907	HG21ILE	108	-8.059	12.542	4.199	1.00	0.02
ATOM	908	HD13ILE	108	-10.036	8.537	5.521	1.00	0.02
ATOM	909	HD12ILE	108	-9.569	8.212	3.824	1.00	0.02
ATOM	910	HD11ILE	108	-10.506	9.685	4.237	1.00	0.02
ATOM	911	N PHE	109	-7.746	12.916	8.399	1.00	-0.26
ATOM	912	CA PHE	109	-7.451	14.198	9.029	1.00	0.14
ATOM	913	C PHE	109	-5.957	14.291	9.232	1.00	0.21
ATOM	914	O PHE	109	-5.400	15.332	8.922	1.00	-0.39
ATOM	915	CB PHE	109	-8.179	14.391	10.384	1.00	0.02
ATOM	916	CG PHE	109	-9.715	14.293	10.324	1.00	-0.04
ATOM	917	CD1 PHE	109	-10.446	14.306	9.127	1.00	-0.06
ATOM	918	CD2 PHE	109	-10.410	14.180	11.534	1.00	-0.06
ATOM	919	CE1 PHE	109	-11.841	14.228	9.145	1.00	-0.07
ATOM	920	CE2 PHE	109	-11.805	14.094	11.556	1.00	-0.07
ATOM	921	CZ PHE	109	-12.524	14.130	10.359	1.00	-0.07
ATOM	922	H PHE	109	-8.245	12.220	8.921	1.00	0.19
ATOM	923	HA PHE	109	-7.731	15.022	8.351	1.00	0.08
ATOM	924	HB2 PHE	109	-7.921	15.381	10.793	1.00	0.05
ATOM	925	HB1 PHE	109	-7.808	13.626	11.082	1.00	0.05
ATOM	926	HD1 PHE	109	-9.954	14.373	8.164	1.00	0.06
ATOM	927	HD2 PHE	109	-9.864	14.159	12.472	1.00	0.06
ATOM	928	HE1 PHE	109	-12.397	14.242	8.212	1.00	0.06
ATOM	929	HE2 PHE	109	-12.329	14.001	12.502	1.00	0.06
ATOM	930	HZ PHE	109	-13.609	14.079	10.373	1.00	0.06
ATOM	931	N TYR	110	-5.259	13.237	9.709	1.00	-0.26
ATOM	932	CA TYR	110	-3.799	13.329	9.771	1.00	0.14
ATOM	933	C TYR	110	-3.252	13.591	8.384	1.00	0.21
ATOM	934	O TYR	110	-2.288	14.325	8.250	1.00	-0.39
ATOM	935	CB TYR	110	-3.102	12.056	10.323	1.00	0.02
ATOM	936	CG TYR	110	-3.660	11.509	11.648	1.00	-0.05
ATOM	937	CD1 TYR	110	-4.474	12.262	12.504	1.00	-0.07

ATOM	938	CD2 TYR	110	-3.336	10.195	12.008	1.00	-0.07
ATOM	939	CE1 TYR	110	-5.023	11.683	13.652	1.00	-0.04
ATOM	940	CE2 TYR	110	-3.877	9.618	13.159	1.00	-0.04
ATOM	941	CZ TYR	110	-4.729	10.355	13.985	1.00	0.08
ATOM	942	OH TYR	110	-5.266	9.752	15.126	1.00	-0.34
ATOM	943	H TYR	110	-5.713	12.377	9.965	1.00	0.19
ATOM	944	HA TYR	110	-3.521	14.190	10.399	1.00	0.08
ATOM	945	HB1 TYR	110	-2.034	12.273	10.477	1.00	0.05
ATOM	946	HB2 TYR	110	-3.180	11.259	9.567	1.00	0.05
ATOM	947	HD1 TYR	110	-4.696	13.302	12.293	1.00	0.05
ATOM	948	HD2 TYR	110	-2.658	9.615	11.390	1.00	0.05
ATOM	949	HE1 TYR	110	-5.681	12.274	14.280	1.00	0.05
ATOM	950	HE2 TYR	110	-3.638	8.592	13.420	1.00	0.05
ATOM	951	HH TYR	110	-5.686	10.360	15.723	1.00	0.25
ATOM	952	N TYR	111	-3.844	13.024	7.311	1.00	-0.26
ATOM	953	CA TYR	111	-3.363	13.353	5.969	1.00	0.14
ATOM	954	C TYR	111	-3.535	14.823	5.652	1.00	0.21
ATOM	955	O TYR	111	-2.953	15.265	4.675	1.00	-0.39
ATOM	956	CB TYR	111	-3.977	12.476	4.845	1.00	0.02
ATOM	957	CG TYR	111	-3.911	10.956	5.091	1.00	-0.05
ATOM	958	CD1 TYR	111	-3.174	10.380	6.134	1.00	-0.07
ATOM	959	CD2 TYR	111	-4.631	10.112	4.236	1.00	-0.07
ATOM	960	CE1 TYR	111	-3.237	9.006	6.376	1.00	-0.04
ATOM	961	CE2 TYR	111	-4.658	8.730	4.447	1.00	-0.04
ATOM	962	CZ TYR	111	-3.954	8.170	5.516	1.00	0.08
ATOM	963	OH TYR	111	-3.980	6.790	5.717	1.00	-0.34
ATOM	964	H TYR	111	-4.623	12.401	7.420	1.00	0.19
ATOM	965	HA TYR	111	-2.276	13.199	5.944	1.00	0.08
ATOM	966	HB1 TYR	111	-3.461	12.685	3.895	1.00	0.05
ATOM	967	HB2 TYR	111	-5.031	12.770	4.726	1.00	0.05
ATOM	968	HD1 TYR	111	-2.546	10.977	6.782	1.00	0.05
ATOM	969	HD2 TYR	111	-5.181	10.532	3.399	1.00	0.05
ATOM	970	HE1 TYR	111	-2.730	8.592	7.240	1.00	0.05
ATOM	971	HE2 TYR	111	-5.226	8.088	3.783	1.00	0.05
ATOM	972	HH TYR	111	-3.130	6.430	5.961	1.00	0.25
ATOM	973	N PHE	112	-4.289	15.613	6.451	1.00	-0.26
ATOM	974	CA PHE	112	-4.244	17.066	6.322	1.00	0.14
ATOM	975	C PHE	112	-3.228	17.657	7.284	1.00	0.20
ATOM	976	O PHE	112	-3.405	18.808	7.657	1.00	-0.39
ATOM	977	CB PHE	112	-5.653	17.661	6.612	1.00	0.02
ATOM	978	CG PHE	112	-6.828	16.960	5.903	1.00	-0.04
ATOM	979	CD1 PHE	112	-6.669	16.223	4.722	1.00	-0.06
ATOM	980	CD2 PHE	112	-8.108	17.068	6.461	1.00	-0.06
ATOM	981	CE1 PHE	112	-7.768	15.606	4.116	1.00	-0.07
ATOM	982	CE2 PHE	112	-9.210	16.456	5.856	1.00	-0.07
ATOM	983	CZ PHE	112	-9.043	15.733	4.673	1.00	-0.07
ATOM	984	H PHE	112	-4.821	15.250	7.215	1.00	0.19
ATOM	985	HA PHE	112	-3.931	17.384	5.314	1.00	0.08
ATOM	986	HB2 PHE	112	-5.677	18.728	6.340	1.00	0.05
ATOM	987	HB1 PHE	112	-5.821	17.585	7.699	1.00	0.05
ATOM	988	HD1 PHE	112	-5.697	16.119	4.255	1.00	0.06
ATOM	989	HD2 PHE	112	-8.257	17.634	7.375	1.00	0.06
ATOM	990	HE1 PHE	112	-7.630	15.024	3.210	1.00	0.06
ATOM	991	HE2 PHE	112	-10.195	16.544	6.305	1.00	0.06
ATOM	992	HZ PHE	112	-9.899	15.272	4.192	1.00	0.06
ATOM	993	N ASN	113	-2.172	16.928	7.723	1.00	-0.29
ATOM	994	CA ASN	113	-1.180	17.493	8.638	1.00	0.02
ATOM	995	C ASN	113	0.196	17.097	8.165	1.00	-0.19

ATOM	996	O	ASN	113	1.036	16.624	8.917	1.00	-0.72
ATOM	997	CB	ASN	113	-1.418	16.988	10.086	1.00	0.05
ATOM	998	CG	ASN	113	-2.806	17.187	10.656	1.00	0.18
ATOM	999	OD1	ASN	113	-3.188	16.423	11.529	1.00	-0.40
ATOM	1000	ND2	ASN	113	-3.614	18.186	10.246	1.00	-0.30
ATOM	1001	H	ASN	113	-2.042	15.962	7.485	1.00	0.19
ATOM	1002	HA	ASN	113	-1.167	18.594	8.618	1.00	0.05
ATOM	1003	HB2	ASN	113	-0.698	17.472	10.762	1.00	0.05
ATOM	1004	HB1	ASN	113	-1.213	15.906	10.094	1.00	0.05
ATOM	1005	HD21	ASN	113	-3.350	18.839	9.536	1.00	0.18
ATOM	1006	HD22	ASN	113	-4.524	18.254	10.652	1.00	0.18
TER	1007		ASN	113					
ATOM	1008	C	ACE	124	7.987	11.294	4.878	1.00	0.18
ATOM	1009	O	ACE	124	6.873	10.823	4.721	1.00	-0.40
ATOM	1010	CH3	ACE	124	8.110	12.757	5.213	1.00	0.03
ATOM	1011	H	ACE	124	7.176	13.286	4.968	1.00	0.05
ATOM	1012	H	ACE	124	8.934	13.218	4.647	1.00	0.05
ATOM	1013	H	ACE	124	8.306	12.864	6.289	1.00	0.05
ATOM	1014	N	LYS	125	9.100	10.530	4.781	1.00	-0.27
ATOM	1015	CA	LYS	125	8.946	9.096	4.532	1.00	0.13
ATOM	1016	C	LYS	125	8.126	8.515	5.661	1.00	0.20
ATOM	1017	O	LYS	125	7.124	7.876	5.394	1.00	-0.39
ATOM	1018	CB	LYS	125	10.280	8.291	4.471	1.00	-0.01
ATOM	1019	CG	LYS	125	10.022	6.769	4.228	1.00	-0.04
ATOM	1020	CD	LYS	125	11.086	5.832	4.870	1.00	-0.01
ATOM	1021	CE	LYS	125	10.582	4.359	4.867	1.00	-0.04
ATOM	1022	NZ	LYS	125	11.503	3.421	5.549	1.00	0.22
ATOM	1023	H	LYS	125	10.014	10.912	4.926	1.00	0.19
ATOM	1024	HA	LYS	125	8.404	8.950	3.582	1.00	0.08
ATOM	1025	HB2	LYS	125	10.811	8.438	5.423	1.00	0.03
ATOM	1026	HB1	LYS	125	10.926	8.691	3.672	1.00	0.03
ATOM	1027	HG2	LYS	125	9.943	6.570	3.147	1.00	0.03
ATOM	1028	HG1	LYS	125	9.066	6.473	4.677	1.00	0.03
ATOM	1029	HD2	LYS	125	11.254	6.128	5.918	1.00	0.03
ATOM	1030	HD1	LYS	125	12.043	5.919	4.328	1.00	0.03
ATOM	1031	HE2	LYS	125	10.421	4.033	3.826	1.00	0.08
ATOM	1032	HE1	LYS	125	9.614	4.307	5.396	1.00	0.08
ATOM	1033	HZ3	LYS	125	12.425	3.219	5.022	1.00	0.20
ATOM	1034	HZ2	LYS	125	11.049	2.439	5.648	1.00	0.20
ATOM	1035	HZ1	LYS	125	11.829	3.754	6.521	1.00	0.20
ATOM	1036	N	LEU	126	8.533	8.689	6.936	1.00	-0.26
ATOM	1037	CA	LEU	126	7.793	8.026	8.005	1.00	0.13
ATOM	1038	C	LEU	126	6.365	8.509	8.001	1.00	0.20
ATOM	1039	O	LEU	126	5.476	7.698	8.189	1.00	-0.39
ATOM	1040	CB	LEU	126	8.411	8.244	9.413	1.00	-0.01
ATOM	1041	CG	LEU	126	9.848	7.662	9.587	1.00	-0.04
ATOM	1042	CD1	LEU	126	10.328	7.909	11.045	1.00	-0.06
ATOM	1043	CD2	LEU	126	9.911	6.142	9.263	1.00	-0.06
ATOM	1044	H	LEU	126	9.318	9.265	7.160	1.00	0.19
ATOM	1045	HA	LEU	126	7.744	6.946	7.795	1.00	0.08
ATOM	1046	HB2	LEU	126	7.750	7.768	10.155	1.00	0.03
ATOM	1047	HB1	LEU	126	8.424	9.327	9.620	1.00	0.03
ATOM	1048	HG	LEU	126	10.551	8.184	8.916	1.00	0.03
ATOM	1049	HD13	LEU	126	10.297	8.983	11.286	1.00	0.02
ATOM	1050	HD12	LEU	126	11.364	7.561	11.178	1.00	0.02
ATOM	1051	HD11	LEU	126	9.685	7.371	11.758	1.00	0.02
ATOM	1052	HD23	LEU	126	9.103	5.616	9.792	1.00	0.02
ATOM	1053	HD22	LEU	126	10.875	5.717	9.582	1.00	0.02

ATOM	1054	HD21LEU	126	9.813	5.952	8.184	1.00	0.02
ATOM	1055	N GLN	127	6.092	9.809	7.780	1.00	-0.26
ATOM	1056	CA GLN	127	4.696	10.243	7.755	1.00	0.13
ATOM	1057	C GLN	127	3.967	9.555	6.618	1.00	0.20
ATOM	1058	O GLN	127	2.924	8.957	6.841	1.00	-0.39
ATOM	1059	CB GLN	127	4.628	11.791	7.639	1.00	0.00
ATOM	1060	CG GLN	127	3.177	12.325	7.733	1.00	0.04
ATOM	1061	CD GLN	127	3.157	13.835	7.706	1.00	0.17
ATOM	1062	OE1 GLN	127	3.950	14.408	6.978	1.00	-0.40
ATOM	1063	NE2 GLN	127	2.276	14.512	8.471	1.00	-0.30
ATOM	1064	H GLN	127	6.825	10.467	7.601	1.00	0.19
ATOM	1065	HA GLN	127	4.218	9.943	8.704	1.00	0.08
ATOM	1066	HB2 GLN	127	5.084	12.111	6.688	1.00	0.03
ATOM	1067	HB1 GLN	127	5.210	12.233	8.464	1.00	0.03
ATOM	1068	HG2 GLN	127	2.702	11.949	8.652	1.00	0.05
ATOM	1069	HG1 GLN	127	2.612	11.958	6.864	1.00	0.05
ATOM	1070	HE21GLN	127	1.633	14.067	9.089	1.00	0.18
ATOM	1071	HE22GLN	127	2.214	15.519	8.433	1.00	0.18
ATOM	1072	N ARG	128	4.500	9.612	5.377	1.00	-0.26
ATOM	1073	CA ARG	128	3.820	8.943	4.266	1.00	0.13
ATOM	1074	C ARG	128	3.705	7.452	4.524	1.00	0.20
ATOM	1075	O ARG	128	2.674	6.855	4.248	1.00	-0.39
ATOM	1076	CB ARG	128	4.602	9.147	2.932	1.00	-0.01
ATOM	1077	CG ARG	128	3.894	8.452	1.734	1.00	-0.02
ATOM	1078	CD ARG	128	4.760	8.379	0.449	1.00	0.06
ATOM	1079	NE ARG	128	4.013	7.662	-0.597	1.00	-0.27
ATOM	1080	CZ ARG	128	3.895	6.351	-0.684	1.00	0.29
ATOM	1081	NH1 ARG	128	4.427	5.513	0.170	1.00	-0.28
ATOM	1082	NH2 ARG	128	3.205	5.845	-1.676	1.00	-0.28
ATOM	1083	H ARG	128	5.375	10.082	5.209	1.00	0.19
ATOM	1084	HA ARG	128	2.809	9.369	4.159	1.00	0.08
ATOM	1085	HB2 ARG	128	5.618	8.743	3.052	1.00	0.03
ATOM	1086	HB1 ARG	128	4.700	10.226	2.721	1.00	0.03
ATOM	1087	HG2 ARG	128	2.975	9.015	1.511	1.00	0.03
ATOM	1088	HG1 ARG	128	3.608	7.425	1.991	1.00	0.03
ATOM	1089	HD2 ARG	128	5.754	7.942	0.631	1.00	0.07
ATOM	1090	HD1 ARG	128	4.943	9.419	0.131	1.00	0.07
ATOM	1091	HE ARG	128	3.558	8.250	-1.312	1.00	0.26
ATOM	1092	HH11ARG	128	4.982	5.830	0.966	1.00	0.26
ATOM	1093	HH12ARG	128	4.288	4.491	0.070	1.00	0.26
ATOM	1094	HH21ARG	128	2.758	6.444	-2.380	1.00	0.26
ATOM	1095	HH22ARG	128	3.090	4.825	-1.780	1.00	0.26
ATOM	1096	N PHE	129	4.779	6.810	5.025	1.00	-0.26
ATOM	1097	CA PHE	129	4.758	5.357	5.174	1.00	0.14
ATOM	1098	C PHE	129	3.866	5.010	6.339	1.00	0.21
ATOM	1099	O PHE	129	3.118	4.057	6.218	1.00	-0.39
ATOM	1100	CB PHE	129	6.165	4.725	5.362	1.00	0.02
ATOM	1101	CG PHE	129	6.920	4.561	4.028	1.00	-0.04
ATOM	1102	CD1 PHE	129	6.986	5.600	3.092	1.00	-0.06
ATOM	1103	CD2 PHE	129	7.557	3.351	3.726	1.00	-0.06
ATOM	1104	CE1 PHE	129	7.652	5.435	1.876	1.00	-0.07
ATOM	1105	CE2 PHE	129	8.193	3.163	2.495	1.00	-0.07
ATOM	1106	CZ PHE	129	8.240	4.208	1.570	1.00	-0.07
ATOM	1107	H PHE	129	5.584	7.323	5.330	1.00	0.19
ATOM	1108	HA PHE	129	4.315	4.899	4.274	1.00	0.08
ATOM	1109	HB2 PHE	129	6.023	3.728	5.812	1.00	0.05
ATOM	1110	HB1 PHE	129	6.772	5.317	6.062	1.00	0.05
ATOM	1111	HD1 PHE	129	6.525	6.553	3.291	1.00	0.06

ATOM	1112	HD2 PHE	129	7.565	2.543	4.448	1.00	0.06
ATOM	1113	HE1 PHE	129	7.715	6.257	1.169	1.00	0.06
ATOM	1114	HE2 PHE	129	8.650	2.206	2.264	1.00	0.06
ATOM	1115	HZ PHE	129	8.728	4.078	0.614	1.00	0.06
ATOM	1116	N ILE	130	3.893	5.746	7.467	1.00	-0.26
ATOM	1117	CA ILE	130	2.943	5.457	8.541	1.00	0.13
ATOM	1118	C ILE	130	1.552	5.637	7.977	1.00	0.20
ATOM	1119	O ILE	130	0.747	4.723	8.085	1.00	-0.39
ATOM	1120	CB ILE	130	3.194	6.341	9.802	1.00	0.00
ATOM	1121	CG1 ILE	130	4.513	5.893	10.507	1.00	-0.05
ATOM	1122	CG2 ILE	130	1.982	6.270	10.774	1.00	-0.06
ATOM	1123	CD1 ILE	130	5.082	6.947	11.495	1.00	-0.06
ATOM	1124	H ILE	130	4.507	6.533	7.550	1.00	0.19
ATOM	1125	HA ILE	130	3.045	4.402	8.842	1.00	0.08
ATOM	1126	HB ILE	130	3.288	7.391	9.478	1.00	0.03
ATOM	1127	HG12ILE	130	5.295	5.690	9.757	1.00	0.03
ATOM	1128	HG11ILE	130	4.330	4.955	11.051	1.00	0.03
ATOM	1129	HG23ILE	130	1.090	6.710	10.303	1.00	0.02
ATOM	1130	HG22ILE	130	2.167	6.830	11.700	1.00	0.02
ATOM	1131	HG21ILE	130	1.766	5.223	11.034	1.00	0.02
ATOM	1132	HD13ILE	130	5.243	7.907	10.980	1.00	0.02
ATOM	1133	HD12ILE	130	6.048	6.598	11.893	1.00	0.02
ATOM	1134	HD11ILE	130	4.408	7.113	12.347	1.00	0.02
ATOM	1135	N PHE	131	1.255	6.801	7.355	1.00	-0.26
ATOM	1136	CA PHE	131	-0.074	6.993	6.774	1.00	0.14
ATOM	1137	C PHE	131	-0.505	5.806	5.940	1.00	0.21
ATOM	1138	O PHE	131	-1.676	5.458	5.976	1.00	-0.39
ATOM	1139	CB PHE	131	-0.104	8.189	5.780	1.00	0.02
ATOM	1140	CG PHE	131	0.003	9.607	6.355	1.00	-0.04
ATOM	1141	CD1 PHE	131	0.033	9.896	7.725	1.00	-0.06
ATOM	1142	CD2 PHE	131	0.064	10.661	5.435	1.00	-0.06
ATOM	1143	CE1 PHE	131	0.004	11.225	8.161	1.00	-0.07
ATOM	1144	CE2 PHE	131	0.075	11.988	5.868	1.00	-0.07
ATOM	1145	CZ PHE	131	-0.007	12.270	7.233	1.00	-0.07
ATOM	1146	H PHE	131	1.932	7.543	7.276	1.00	0.19
ATOM	1147	HA PHE	131	-0.815	7.106	7.581	1.00	0.08
ATOM	1148	HB2 PHE	131	-1.034	8.164	5.190	1.00	0.05
ATOM	1149	HB1 PHE	131	0.729	8.072	5.078	1.00	0.05
ATOM	1150	HD1 PHE	131	0.076	9.107	8.466	1.00	0.06
ATOM	1151	HD2 PHE	131	0.098	10.453	4.370	1.00	0.06
ATOM	1152	HE1 PHE	131	-0.006	11.446	9.223	1.00	0.06
ATOM	1153	HE2 PHE	131	0.143	12.797	5.148	1.00	0.06
ATOM	1154	HZ PHE	131	-0.075	13.300	7.564	1.00	0.06
ATOM	1155	N HIS	132	0.414	5.198	5.160	1.00	-0.26
ATOM	1156	CA HIS	132	0.022	4.067	4.320	1.00	0.14
ATOM	1157	C HIS	132	-0.008	2.797	5.151	1.00	0.21
ATOM	1158	O HIS	132	-0.970	2.050	5.075	1.00	-0.39
ATOM	1159	CB HIS	132	0.985	3.901	3.113	1.00	0.04
ATOM	1160	CG HIS	132	0.842	4.983	2.065	1.00	0.06
ATOM	1161	ND1 HIS	132	1.063	6.263	2.265	1.00	-0.26
ATOM	1162	CD2 HIS	132	0.467	4.794	0.783	1.00	-0.03
ATOM	1163	CE1 HIS	132	0.821	6.932	1.182	1.00	0.09
ATOM	1164	NE2 HIS	132	0.480	6.138	0.276	1.00	-0.34
ATOM	1165	H HIS	132	1.377	5.482	5.190	1.00	0.19
ATOM	1166	HA HIS	132	-0.990	4.224	3.910	1.00	0.08
ATOM	1167	HB2 HIS	132	0.729	2.945	2.642	1.00	0.05
ATOM	1168	HB1 HIS	132	2.031	3.846	3.449	1.00	0.05
ATOM	1169	HD1 HIS	132	1.384	6.678	3.154	1.00	0.24

ATOM	1170	HD2	HIS	132	0.208	3.883	0.254	1.00	0.03
ATOM	1171	HE1	HIS	132	0.887	8.009	1.041	1.00	0.11
ATOM	1172	N	VAL	133	1.032	2.514	5.963	1.00	-0.26
ATOM	1173	CA	VAL	133	1.045	1.281	6.750	1.00	0.13
ATOM	1174	C	VAL	133	-0.169	1.229	7.645	1.00	0.20
ATOM	1175	O	VAL	133	-0.757	0.163	7.753	1.00	-0.39
ATOM	1176	CB	VAL	133	2.355	1.090	7.569	1.00	-0.01
ATOM	1177	CG1	VAL	133	2.223	-0.087	8.576	1.00	-0.06
ATOM	1178	CG2	VAL	133	3.565	0.821	6.627	1.00	-0.06
ATOM	1179	H	VAL	133	1.788	3.158	6.062	1.00	0.19
ATOM	1180	HA	VAL	133	0.968	0.427	6.063	1.00	0.08
ATOM	1181	HB	VAL	133	2.534	2.013	8.143	1.00	0.03
ATOM	1182	HG13	VAL	133	1.454	0.111	9.338	1.00	0.02
ATOM	1183	HG12	VAL	133	3.177	-0.230	9.100	1.00	0.02
ATOM	1184	HG11	VAL	133	1.968	-1.021	8.052	1.00	0.02
ATOM	1185	HG23	VAL	133	3.427	-0.133	6.097	1.00	0.02
ATOM	1186	HG22	VAL	133	4.498	0.764	7.210	1.00	0.02
ATOM	1187	HG21	VAL	133	3.684	1.613	5.874	1.00	0.02
ATOM	1188	N	ASN	134	-0.606	2.332	8.289	1.00	-0.26
ATOM	1189	CA	ASN	134	-1.837	2.225	9.073	1.00	0.15
ATOM	1190	C	ASN	134	-2.958	1.620	8.249	1.00	0.21
ATOM	1191	O	ASN	134	-3.756	0.862	8.781	1.00	-0.39
ATOM	1192	CB	ASN	134	-2.359	3.591	9.582	1.00	0.08
ATOM	1193	CG	ASN	134	-1.417	4.326	10.501	1.00	0.18
ATOM	1194	OD1	ASN	134	-1.081	5.461	10.209	1.00	-0.40
ATOM	1195	ND2	ASN	134	-0.978	3.750	11.637	1.00	-0.30
ATOM	1196	H	ASN	134	-0.124	3.215	8.215	1.00	0.19
ATOM	1197	HA	ASN	134	-1.651	1.546	9.920	1.00	0.08
ATOM	1198	HB2	ASN	134	-3.289	3.427	10.145	1.00	0.06
ATOM	1199	HB1	ASN	134	-2.579	4.228	8.710	1.00	0.06
ATOM	1200	HD21	ASN	134	-1.260	2.837	11.921	1.00	0.18
ATOM	1201	HD22	ASN	134	-0.361	4.276	12.223	1.00	0.18
ATOM	1202	N	LEU	135	-3.045	1.938	6.938	1.00	-0.26
ATOM	1203	CA	LEU	135	-4.109	1.357	6.122	1.00	0.13
ATOM	1204	C	LEU	135	-3.847	-0.108	5.844	1.00	0.20
ATOM	1205	O	LEU	135	-4.779	-0.800	5.467	1.00	-0.39
ATOM	1206	CB	LEU	135	-4.318	2.149	4.803	1.00	-0.01
ATOM	1207	CG	LEU	135	-4.726	3.638	5.026	1.00	-0.04
ATOM	1208	CD1	LEU	135	-4.591	4.423	3.694	1.00	-0.06
ATOM	1209	CD2	LEU	135	-6.177	3.798	5.552	1.00	-0.06
ATOM	1210	H	LEU	135	-2.349	2.506	6.488	1.00	0.19
ATOM	1211	HA	LEU	135	-5.047	1.383	6.692	1.00	0.08
ATOM	1212	HB2	LEU	135	-5.078	1.648	4.181	1.00	0.03
ATOM	1213	HB1	LEU	135	-3.363	2.118	4.261	1.00	0.03
ATOM	1214	HG	LEU	135	-4.043	4.094	5.760	1.00	0.03
ATOM	1215	HD13	LEU	135	-3.536	4.446	3.386	1.00	0.02
ATOM	1216	HD12	LEU	135	-4.939	5.461	3.791	1.00	0.02
ATOM	1217	HD11	LEU	135	-5.192	3.933	2.916	1.00	0.02
ATOM	1218	HD23	LEU	135	-6.316	3.306	6.524	1.00	0.02
ATOM	1219	HD22	LEU	135	-6.406	4.867	5.681	1.00	0.02
ATOM	1220	HD21	LEU	135	-6.892	3.376	4.830	1.00	0.02
ATOM	1221	N	TYR	136	-2.627	-0.655	6.032	1.00	-0.26
ATOM	1222	CA	TYR	136	-2.484	-2.106	5.931	1.00	0.14
ATOM	1223	C	TYR	136	-3.302	-2.695	7.055	1.00	0.21
ATOM	1224	O	TYR	136	-3.952	-3.709	6.853	1.00	-0.39
ATOM	1225	CB	TYR	136	-1.040	-2.644	6.112	1.00	0.02
ATOM	1226	CG	TYR	136	-0.009	-2.152	5.086	1.00	-0.05
ATOM	1227	CD1	TYR	136	-0.231	-1.072	4.223	1.00	-0.07

ATOM	1228	CD2 TYR	136	1.222	-2.814	5.027	1.00	-0.07
ATOM	1229	CE1 TYR	136	0.849	-0.482	3.562	1.00	-0.04
ATOM	1230	CE2 TYR	136	2.244	-2.333	4.206	1.00	-0.04
ATOM	1231	CZ TYR	136	2.094	-1.118	3.533	1.00	0.08
ATOM	1232	OH TYR	136	3.179	-0.567	2.849	1.00	-0.34
ATOM	1233	H TYR	136	-1.842	-0.114	6.335	1.00	0.19
ATOM	1234	HA TYR	136	-2.871	-2.458	4.961	1.00	0.08
ATOM	1235	HB1 TYR	136	-1.078	-3.745	6.063	1.00	0.05
ATOM	1236	HB2 TYR	136	-0.663	-2.360	7.107	1.00	0.05
ATOM	1237	HD1 TYR	136	-1.220	-0.665	4.053	1.00	0.05
ATOM	1238	HD2 TYR	136	1.394	-3.706	5.622	1.00	0.05
ATOM	1239	HE1 TYR	136	0.705	0.475	3.082	1.00	0.05
ATOM	1240	HE2 TYR	136	3.155	-2.904	4.096	1.00	0.05
ATOM	1241	HH TYR	136	3.079	0.355	2.640	1.00	0.25
ATOM	1242	N GLY	137	-3.286	-2.070	8.255	1.00	-0.27
ATOM	1243	CA GLY	137	-4.148	-2.559	9.323	1.00	0.12
ATOM	1244	C GLY	137	-5.583	-2.460	8.878	1.00	0.20
ATOM	1245	O GLY	137	-6.282	-3.455	8.941	1.00	-0.39
ATOM	1246	H GLY	137	-2.740	-1.242	8.420	1.00	0.19
ATOM	1247	HA1 GLY	137	-3.900	-3.607	9.555	1.00	0.08
ATOM	1248	HA2 GLY	137	-4.038	-1.966	10.245	1.00	0.08
ATOM	1249	N SER	138	-6.073	-1.291	8.416	1.00	-0.26
ATOM	1250	CA SER	138	-7.477	-1.235	8.000	1.00	0.15
ATOM	1251	C SER	138	-7.768	-2.280	6.944	1.00	0.21
ATOM	1252	O SER	138	-8.756	-2.991	7.043	1.00	-0.39
ATOM	1253	CB SER	138	-7.895	0.132	7.398	1.00	0.08
ATOM	1254	OG SER	138	-7.249	0.311	6.126	1.00	-0.39
ATOM	1255	H SER	138	-5.489	-0.476	8.353	1.00	0.19
ATOM	1256	HA SER	138	-8.100	-1.431	8.888	1.00	0.08
ATOM	1257	HB2 SER	138	-7.627	0.943	8.095	1.00	0.06
ATOM	1258	HB1 SER	138	-8.989	0.136	7.252	1.00	0.06
ATOM	1259	HG SER	138	-7.526	1.092	5.658	1.00	0.21
ATOM	1260	N ILE	139	-6.911	-2.389	5.908	1.00	-0.26
ATOM	1261	CA ILE	139	-7.155	-3.379	4.860	1.00	0.13
ATOM	1262	C ILE	139	-7.148	-4.768	5.455	1.00	0.20
ATOM	1263	O ILE	139	-8.098	-5.509	5.256	1.00	-0.39
ATOM	1264	CB ILE	139	-6.131	-3.260	3.691	1.00	0.00
ATOM	1265	CG1 ILE	139	-6.420	-1.958	2.878	1.00	-0.05
ATOM	1266	CG2 ILE	139	-6.182	-4.527	2.791	1.00	-0.06
ATOM	1267	CD1 ILE	139	-5.307	-1.577	1.866	1.00	-0.06
ATOM	1268	H ILE	139	-6.106	-1.788	5.856	1.00	0.19
ATOM	1269	HA ILE	139	-8.163	-3.215	4.448	1.00	0.08
ATOM	1270	HB ILE	139	-5.119	-3.203	4.121	1.00	0.03
ATOM	1271	HG12ILE	139	-6.536	-1.107	3.569	1.00	0.03
ATOM	1272	HG11ILE	139	-7.372	-2.074	2.340	1.00	0.03
ATOM	1273	HG23ILE	139	-5.876	-5.429	3.343	1.00	0.02
ATOM	1274	HG22ILE	139	-5.502	-4.434	1.934	1.00	0.02
ATOM	1275	HG21ILE	139	-7.208	-4.678	2.426	1.00	0.02
ATOM	1276	HD13ILE	139	-4.334	-1.522	2.379	1.00	0.02
ATOM	1277	HD12ILE	139	-5.528	-0.589	1.430	1.00	0.02
ATOM	1278	HD11ILE	139	-5.238	-2.297	1.038	1.00	0.02
ATOM	1279	N LEU	140	-6.096	-5.170	6.195	1.00	-0.26
ATOM	1280	CA LEU	140	-6.119	-6.507	6.786	1.00	0.13
ATOM	1281	C LEU	140	-7.278	-6.623	7.749	1.00	0.20
ATOM	1282	O LEU	140	-7.823	-7.708	7.883	1.00	-0.39
ATOM	1283	CB LEU	140	-4.780	-6.873	7.480	1.00	-0.01
ATOM	1284	CG LEU	140	-3.635	-7.126	6.450	1.00	-0.04
ATOM	1285	CD1 LEU	140	-2.255	-6.978	7.143	1.00	-0.06

ATOM	1286	CD2 LEU	140	-3.732	-8.536	5.796	1.00	-0.06
ATOM	1287	H LEU	140	-5.330	-4.547	6.384	1.00	0.19
ATOM	1288	HA LEU	140	-6.318	-7.229	5.983	1.00	0.08
ATOM	1289	HB2 LEU	140	-4.912	-7.776	8.098	1.00	0.03
ATOM	1290	HB1 LEU	140	-4.530	-6.043	8.162	1.00	0.03
ATOM	1291	HG LEU	140	-3.685	-6.363	5.653	1.00	0.03
ATOM	1292	HD13LEU	140	-2.152	-5.956	7.533	1.00	0.02
ATOM	1293	HD12LEU	140	-1.432	-7.155	6.432	1.00	0.02
ATOM	1294	HD11LEU	140	-2.165	-7.696	7.973	1.00	0.02
ATOM	1295	HD23LEU	140	-3.697	-9.323	6.565	1.00	0.02
ATOM	1296	HD22LEU	140	-2.885	-8.692	5.110	1.00	0.02
ATOM	1297	HD21LEU	140	-4.655	-8.661	5.213	1.00	0.02
ATOM	1298	N PHE	141	-7.702	-5.533	8.421	1.00	-0.26
ATOM	1299	CA PHE	141	-8.925	-5.611	9.210	1.00	0.14
ATOM	1300	C PHE	141	-10.075	-5.882	8.262	1.00	0.21
ATOM	1301	O PHE	141	-10.926	-6.683	8.607	1.00	-0.39
ATOM	1302	CB PHE	141	-9.213	-4.346	10.065	1.00	0.02
ATOM	1303	CG PHE	141	-8.088	-3.895	11.013	1.00	-0.04
ATOM	1304	CD1 PHE	141	-6.958	-4.674	11.297	1.00	-0.06
ATOM	1305	CD2 PHE	141	-8.201	-2.631	11.605	1.00	-0.06
ATOM	1306	CE1 PHE	141	-5.912	-4.149	12.062	1.00	-0.07
ATOM	1307	CE2 PHE	141	-7.166	-2.111	12.388	1.00	-0.07
ATOM	1308	CZ PHE	141	-6.011	-2.866	12.606	1.00	-0.07
ATOM	1309	H PHE	141	-7.239	-4.648	8.339	1.00	0.19
ATOM	1310	HA PHE	141	-8.846	-6.455	9.910	1.00	0.08
ATOM	1311	HB2 PHE	141	-10.127	-4.505	10.660	1.00	0.05
ATOM	1312	HB1 PHE	141	-9.393	-3.509	9.380	1.00	0.05
ATOM	1313	HD1 PHE	141	-6.862	-5.687	10.926	1.00	0.06
ATOM	1314	HD2 PHE	141	-9.100	-2.040	11.454	1.00	0.06
ATOM	1315	HE1 PHE	141	-5.018	-4.740	12.232	1.00	0.06
ATOM	1316	HE2 PHE	141	-7.260	-1.122	12.825	1.00	0.06
ATOM	1317	HZ PHE	141	-5.196	-2.459	13.196	1.00	0.06
ATOM	1318	N LEU	142	-10.159	-5.259	7.064	1.00	-0.26
ATOM	1319	CA LEU	142	-11.258	-5.596	6.151	1.00	0.13
ATOM	1320	C LEU	142	-11.113	-7.030	5.689	1.00	0.20
ATOM	1321	O LEU	142	-12.100	-7.749	5.703	1.00	-0.39
ATOM	1322	CB LEU	142	-11.353	-4.692	4.888	1.00	-0.01
ATOM	1323	CG LEU	142	-11.745	-3.208	5.165	1.00	-0.04
ATOM	1324	CD1 LEU	142	-11.468	-2.348	3.901	1.00	-0.06
ATOM	1325	CD2 LEU	142	-13.244	-3.049	5.553	1.00	-0.06
ATOM	1326	H LEU	142	-9.462	-4.595	6.773	1.00	0.19
ATOM	1327	HA LEU	142	-12.208	-5.539	6.702	1.00	0.08
ATOM	1328	HB2 LEU	142	-12.104	-5.117	4.203	1.00	0.03
ATOM	1329	HB1 LEU	142	-10.379	-4.731	4.378	1.00	0.03
ATOM	1330	HG LEU	142	-11.116	-2.810	5.976	1.00	0.03
ATOM	1331	HD13LEU	142	-10.404	-2.384	3.624	1.00	0.02
ATOM	1332	HD12LEU	142	-11.738	-1.295	4.078	1.00	0.02
ATOM	1333	HD11LEU	142	-12.061	-2.726	3.056	1.00	0.02
ATOM	1334	HD23LEU	142	-13.893	-3.388	4.732	1.00	0.02
ATOM	1335	HD22LEU	142	-13.473	-1.992	5.759	1.00	0.02
ATOM	1336	HD21LEU	142	-13.501	-3.625	6.451	1.00	0.02
ATOM	1337	N THR	143	-9.912	-7.486	5.271	1.00	-0.26
ATOM	1338	CA THR	143	-9.770	-8.894	4.891	1.00	0.16
ATOM	1339	C THR	143	-10.171	-9.767	6.058	1.00	0.21
ATOM	1340	O THR	143	-10.836	-10.774	5.873	1.00	-0.39
ATOM	1341	CB THR	143	-8.306	-9.253	4.506	1.00	0.09
ATOM	1342	OG1 THR	143	-7.845	-8.296	3.535	1.00	-0.39
ATOM	1343	CG2 THR	143	-8.201	-10.689	3.924	1.00	-0.03

ATOM	1344	H	THR	143	-9.109	-6.881	5.231	1.00	0.19
ATOM	1345	HA	THR	143	-10.431	-9.097	4.034	1.00	0.08
ATOM	1346	HB	THR	143	-7.682	-9.184	5.414	1.00	0.06
ATOM	1347	HG1	THR	143	-6.933	-8.413	3.286	1.00	0.21
ATOM	1348	HG22	THR	143	-7.154	-10.917	3.670	1.00	0.03
ATOM	1349	HG21	THR	143	-8.810	-10.770	3.011	1.00	0.03
ATOM	1350	HG23	THR	143	-8.548	-11.440	4.650	1.00	0.03
ATOM	1351	N	CYS	144	-9.759	-9.390	7.288	1.00	-0.26
ATOM	1352	CA	CYS	144	-10.178	-10.163	8.448	1.00	0.14
ATOM	1353	C	CYS	144	-11.685	-10.119	8.534	1.00	0.20
ATOM	1354	O	CYS	144	-12.303	-11.168	8.493	1.00	-0.39
ATOM	1355	CB	CYS	144	-9.555	-9.639	9.768	1.00	0.03
ATOM	1356	SG	CYS	144	-10.255	-10.516	11.202	1.00	-0.17
ATOM	1357	H	CYS	144	-9.199	-8.569	7.432	1.00	0.19
ATOM	1358	HA	CYS	144	-9.846	-11.204	8.312	1.00	0.08
ATOM	1359	HB2	CYS	144	-9.794	-8.578	9.900	1.00	0.04
ATOM	1360	HB1	CYS	144	-8.460	-9.757	9.751	1.00	0.04
ATOM	1361	LPG2	CYS	144	-9.126	-11.718	10.777	1.00	0.00
ATOM	1362	LPG1	CYS	144	-10.029	-11.228	11.193	1.00	0.00
ATOM	1363	HG	CYS	144	-9.791	-10.007	11.937	1.00	0.10
ATOM	1364	N	ILE	145	-12.305	-8.925	8.655	1.00	-0.26
ATOM	1365	CA	ILE	145	-13.749	-8.863	8.870	1.00	0.13
ATOM	1366	C	ILE	145	-14.454	-9.572	7.740	1.00	0.20
ATOM	1367	O	ILE	145	-15.304	-10.397	8.031	1.00	-0.39
ATOM	1368	CB	ILE	145	-14.303	-7.410	9.030	1.00	0.00
ATOM	1369	CG1	ILE	145	-13.801	-6.772	10.365	1.00	-0.05
ATOM	1370	CG2	ILE	145	-15.859	-7.370	8.970	1.00	-0.06
ATOM	1371	CD1	ILE	145	-14.292	-5.312	10.557	1.00	-0.06
ATOM	1372	H	ILE	145	-11.784	-8.074	8.582	1.00	0.19
ATOM	1373	HA	ILE	145	-13.982	-9.409	9.798	1.00	0.08
ATOM	1374	HB	ILE	145	-13.927	-6.819	8.177	1.00	0.03
ATOM	1375	HG12	ILE	145	-12.700	-6.760	10.375	1.00	0.03
ATOM	1376	HG11	ILE	145	-14.130	-7.371	11.230	1.00	0.03
ATOM	1377	HG23	ILE	145	-16.255	-7.836	8.055	1.00	0.02
ATOM	1378	HG22	ILE	145	-16.236	-6.337	8.977	1.00	0.02
ATOM	1379	HG21	ILE	145	-16.268	-7.895	9.845	1.00	0.02
ATOM	1380	HD13	ILE	145	-14.230	-4.790	9.596	1.00	0.02
ATOM	1381	HD12	ILE	145	-13.665	-4.771	11.281	1.00	0.02
ATOM	1382	HD11	ILE	145	-15.333	-5.273	10.914	1.00	0.02
ATOM	1383	N	SER	146	-14.146	-9.274	6.460	1.00	-0.26
ATOM	1384	CA	SER	146	-14.921	-9.865	5.369	1.00	0.15
ATOM	1385	C	SER	146	-15.072	-11.354	5.559	1.00	0.21
ATOM	1386	O	SER	146	-16.183	-11.861	5.572	1.00	-0.39
ATOM	1387	CB	SER	146	-14.258	-9.655	3.979	1.00	0.08
ATOM	1388	OG	SER	146	-13.037	-10.414	3.897	1.00	-0.39
ATOM	1389	H	SER	146	-13.406	-8.629	6.246	1.00	0.19
ATOM	1390	HA	SER	146	-15.924	-9.409	5.376	1.00	0.08
ATOM	1391	HB2	SER	146	-14.049	-8.583	3.825	1.00	0.06
ATOM	1392	HB1	SER	146	-14.955	-9.996	3.194	1.00	0.06
ATOM	1393	HG	SER	146	-12.592	-10.332	3.058	1.00	0.21
ATOM	1394	N	ALA	147	-13.941	-12.072	5.703	1.00	-0.26
ATOM	1395	CA	ALA	147	-14.019	-13.518	5.886	1.00	0.13
ATOM	1396	C	ALA	147	-14.299	-13.926	7.314	1.00	0.20
ATOM	1397	O	ALA	147	-14.891	-14.972	7.531	1.00	-0.39
ATOM	1398	CB	ALA	147	-12.678	-14.150	5.449	1.00	-0.02
ATOM	1399	HB3	ALA	147	-11.851	-13.812	6.090	1.00	0.03
ATOM	1400	HB2	ALA	147	-12.457	-13.854	4.414	1.00	0.03
ATOM	1401	HB1	ALA	147	-12.752	-15.245	5.511	1.00	0.03

ATOM	1402	H	ALA	147	-13.046	-11.608	5.684	1.00	0.19
ATOM	1403	HA	ALA	147	-14.822	-13.935	5.258	1.00	0.08
ATOM	1404	N	HIS	148	-13.882	-13.141	8.327	1.00	-0.26
ATOM	1405	CA	HIS	148	-14.041	-13.583	9.712	1.00	0.14
ATOM	1406	C	HIS	148	-15.523	-13.469	10.011	1.00	0.21
ATOM	1407	O	HIS	148	-16.107	-14.401	10.546	1.00	-0.39
ATOM	1408	CB	HIS	148	-13.104	-12.840	10.708	1.00	0.04
ATOM	1409	CG	HIS	148	-11.648	-13.227	10.500	1.00	0.06
ATOM	1410	ND1	HIS	148	-11.047	-13.338	9.334	1.00	-0.26
ATOM	1411	CD2	HIS	148	-10.757	-13.510	11.472	1.00	-0.03
ATOM	1412	CE1	HIS	148	-9.816	-13.705	9.487	1.00	0.09
ATOM	1413	NE2	HIS	148	-9.581	-13.829	10.709	1.00	-0.34
ATOM	1414	H	HIS	148	-13.520	-12.223	8.145	1.00	0.19
ATOM	1415	HA	HIS	148	-13.752	-14.641	9.790	1.00	0.08
ATOM	1416	HB2	HIS	148	-13.398	-13.114	11.732	1.00	0.05
ATOM	1417	HB1	HIS	148	-13.233	-11.753	10.623	1.00	0.05
ATOM	1418	HD1	HIS	148	-11.473	-13.148	8.422	1.00	0.24
ATOM	1419	HD2	HIS	148	-10.854	-13.502	12.553	1.00	0.03
ATOM	1420	HE1	HIS	148	-9.086	-13.879	8.696	1.00	0.11
ATOM	1421	N	ARG	149	-16.159	-12.346	9.610	1.00	-0.26
ATOM	1422	CA	ARG	149	-17.613	-12.187	9.741	1.00	0.13
ATOM	1423	C	ARG	149	-18.355	-13.364	9.133	1.00	0.25
ATOM	1424	O	ARG	149	-17.792	-14.151	8.387	1.00	-0.33
ATOM	1425	CB	ARG	149	-18.001	-10.826	9.080	1.00	-0.01
ATOM	1426	CG	ARG	149	-19.453	-10.292	9.244	1.00	-0.02
ATOM	1427	CD	ARG	149	-19.506	-8.790	8.822	1.00	0.06
ATOM	1428	NE	ARG	149	-20.811	-8.135	8.998	1.00	-0.27
ATOM	1429	CZ	ARG	149	-21.732	-8.070	8.067	1.00	0.29
ATOM	1430	NH1	ARG	149	-21.671	-8.731	6.941	1.00	-0.28
ATOM	1431	NH2	ARG	149	-22.773	-7.303	8.250	1.00	-0.28
ATOM	1432	H	ARG	149	-15.634	-11.620	9.156	1.00	0.19
ATOM	1433	HA	ARG	149	-17.852	-12.153	10.816	1.00	0.08
ATOM	1434	HB2	ARG	149	-17.770	-10.878	8.003	1.00	0.03
ATOM	1435	HB1	ARG	149	-17.341	-10.078	9.545	1.00	0.03
ATOM	1436	HG2	ARG	149	-19.757	-10.385	10.295	1.00	0.03
ATOM	1437	HG1	ARG	149	-20.149	-10.882	8.628	1.00	0.03
ATOM	1438	HD2	ARG	149	-19.102	-8.653	7.805	1.00	0.07
ATOM	1439	HD1	ARG	149	-18.802	-8.230	9.459	1.00	0.07
ATOM	1440	HE	ARG	149	-20.953	-7.584	9.862	1.00	0.26
ATOM	1441	HH11	ARG	149	-20.918	-9.394	6.737	1.00	0.26
ATOM	1442	HH12	ARG	149	-22.410	-8.608	6.229	1.00	0.26
ATOM	1443	HH21	ARG	149	-22.972	-6.811	9.142	1.00	0.26
ATOM	1444	HH22	ARG	149	-23.465	-7.170	7.505	1.00	0.26
TER	1445		ARG	149					
ATOM	1446	C	ACE	163	-13.949	-26.392	14.257	1.00	0.18
ATOM	1447	O	ACE	163	-13.209	-27.304	13.928	1.00	-0.40
ATOM	1448	CH3	ACE	163	-14.889	-26.594	15.416	1.00	0.03
ATOM	1449	H	ACE	163	-15.928	-26.512	15.064	1.00	0.05
ATOM	1450	H	ACE	163	-14.705	-25.831	16.186	1.00	0.05
ATOM	1451	H	ACE	163	-14.743	-27.589	15.863	1.00	0.05
ATOM	1452	N	LYS	164	-13.952	-25.204	13.612	1.00	-0.27
ATOM	1453	CA	LYS	164	-13.021	-24.977	12.505	1.00	0.13
ATOM	1454	C	LYS	164	-12.886	-23.494	12.202	1.00	0.20
ATOM	1455	O	LYS	164	-11.817	-22.940	12.412	1.00	-0.39
ATOM	1456	CB	LYS	164	-13.450	-25.787	11.246	1.00	-0.01
ATOM	1457	CG	LYS	164	-12.335	-25.823	10.165	1.00	-0.04
ATOM	1458	CD	LYS	164	-12.856	-26.448	8.840	1.00	-0.01
ATOM	1459	CE	LYS	164	-11.698	-26.719	7.839	1.00	-0.04

ATOM	1460	NZ	LYS	164	-12.211	-26.960	6.466	1.00	0.22
ATOM	1461	H	LYS	164	-14.556	-24.466	13.915	1.00	0.19
ATOM	1462	HA	LYS	164	-12.025	-25.333	12.823	1.00	0.08
ATOM	1463	HB2	LYS	164	-14.373	-25.369	10.822	1.00	0.03
ATOM	1464	HB1	LYS	164	-13.672	-26.828	11.531	1.00	0.03
ATOM	1465	HG2	LYS	164	-11.485	-26.413	10.547	1.00	0.03
ATOM	1466	HG1	LYS	164	-11.978	-24.800	9.963	1.00	0.03
ATOM	1467	HD2	LYS	164	-13.584	-25.750	8.394	1.00	0.03
ATOM	1468	HD1	LYS	164	-13.379	-27.398	9.044	1.00	0.03
ATOM	1469	HE2	LYS	164	-11.117	-27.591	8.187	1.00	0.08
ATOM	1470	HE1	LYS	164	-11.011	-25.855	7.838	1.00	0.08
ATOM	1471	HZ3	LYS	164	-12.849	-27.826	6.362	1.00	0.20
ATOM	1472	HZ2	LYS	164	-11.406	-27.005	5.742	1.00	0.20
ATOM	1473	HZ1	LYS	164	-12.733	-26.105	6.062	1.00	0.20
ATOM	1474	N	LYS	165	-13.942	-22.796	11.719	1.00	-0.26
ATOM	1475	CA	LYS	165	-13.786	-21.368	11.437	1.00	0.13
ATOM	1476	C	LYS	165	-13.578	-20.641	12.747	1.00	0.20
ATOM	1477	O	LYS	165	-12.650	-19.856	12.854	1.00	-0.39
ATOM	1478	CB	LYS	165	-15.010	-20.742	10.706	1.00	-0.01
ATOM	1479	CG	LYS	165	-14.684	-19.312	10.184	1.00	-0.04
ATOM	1480	CD	LYS	165	-15.946	-18.523	9.727	1.00	-0.01
ATOM	1481	CE	LYS	165	-15.529	-17.213	8.999	1.00	-0.04
ATOM	1482	NZ	LYS	165	-16.613	-16.203	8.876	1.00	0.22
ATOM	1483	H	LYS	165	-14.838	-23.217	11.579	1.00	0.19
ATOM	1484	HA	LYS	165	-12.898	-21.232	10.797	1.00	0.08
ATOM	1485	HB2	LYS	165	-15.871	-20.707	11.392	1.00	0.03
ATOM	1486	HB1	LYS	165	-15.285	-21.375	9.846	1.00	0.03
ATOM	1487	HG2	LYS	165	-13.976	-19.401	9.343	1.00	0.03
ATOM	1488	HG1	LYS	165	-14.191	-18.730	10.979	1.00	0.03
ATOM	1489	HD2	LYS	165	-16.552	-18.278	10.615	1.00	0.03
ATOM	1490	HD1	LYS	165	-16.561	-19.140	9.051	1.00	0.03
ATOM	1491	HE2	LYS	165	-15.143	-17.480	7.999	1.00	0.08
ATOM	1492	HE1	LYS	165	-14.698	-16.761	9.561	1.00	0.08
ATOM	1493	HZ3	LYS	165	-17.521	-16.571	8.425	1.00	0.20
ATOM	1494	HZ2	LYS	165	-16.347	-15.349	8.263	1.00	0.20
ATOM	1495	HZ1	LYS	165	-16.878	-15.742	9.820	1.00	0.20
ATOM	1496	N	LYS	166	-14.427	-20.889	13.772	1.00	-0.26
ATOM	1497	CA	LYS	166	-14.248	-20.189	15.047	1.00	0.13
ATOM	1498	C	LYS	166	-12.955	-20.588	15.729	1.00	0.20
ATOM	1499	O	LYS	166	-12.598	-19.954	16.706	1.00	-0.39
ATOM	1500	CB	LYS	166	-15.493	-20.343	15.970	1.00	-0.01
ATOM	1501	CG	LYS	166	-15.509	-19.331	17.153	1.00	-0.04
ATOM	1502	CD	LYS	166	-16.855	-19.354	17.932	1.00	-0.01
ATOM	1503	CE	LYS	166	-16.858	-18.298	19.074	1.00	-0.04
ATOM	1504	NZ	LYS	166	-18.142	-18.286	19.817	1.00	0.22
ATOM	1505	H	LYS	166	-15.159	-21.565	13.689	1.00	0.19
ATOM	1506	HA	LYS	166	-14.155	-19.118	14.812	1.00	0.08
ATOM	1507	HB2	LYS	166	-15.541	-21.377	16.348	1.00	0.03
ATOM	1508	HB1	LYS	166	-16.389	-20.159	15.354	1.00	0.03
ATOM	1509	HG2	LYS	166	-15.348	-18.313	16.764	1.00	0.03
ATOM	1510	HG1	LYS	166	-14.697	-19.564	17.859	1.00	0.03
ATOM	1511	HD2	LYS	166	-17.015	-20.360	18.352	1.00	0.03
ATOM	1512	HD1	LYS	166	-17.683	-19.134	17.238	1.00	0.03
ATOM	1513	HE2	LYS	166	-16.674	-17.299	18.639	1.00	0.08
ATOM	1514	HE1	LYS	166	-16.028	-18.517	19.770	1.00	0.08
ATOM	1515	HZ3	LYS	166	-18.995	-18.046	19.195	1.00	0.20
ATOM	1516	HZ2	LYS	166	-18.177	-17.523	20.585	1.00	0.20
ATOM	1517	HZ1	LYS	166	-18.359	-19.228	20.301	1.00	0.20

ATOM	1518	N	ASN	167	-12.210	-21.610	15.252	1.00	-0.26
ATOM	1519	CA	ASN	167	-10.842	-21.819	15.727	1.00	0.15
ATOM	1520	C	ASN	167	-9.894	-21.041	14.835	1.00	0.21
ATOM	1521	O	ASN	167	-9.090	-20.270	15.339	1.00	-0.39
ATOM	1522	CB	ASN	167	-10.507	-23.332	15.707	1.00	0.08
ATOM	1523	CG	ASN	167	-11.623	-24.047	16.427	1.00	0.18
ATOM	1524	OD1	ASN	167	-12.674	-24.214	15.832	1.00	-0.40
ATOM	1525	ND2	ASN	167	-11.464	-24.468	17.696	1.00	-0.30
ATOM	1526	H	ASN	167	-12.545	-22.212	14.528	1.00	0.19
ATOM	1527	HA	ASN	167	-10.722	-21.468	16.767	1.00	0.08
ATOM	1528	HB2	ASN	167	-9.527	-23.519	16.171	1.00	0.06
ATOM	1529	HB1	ASN	167	-10.471	-23.715	14.676	1.00	0.06
ATOM	1530	HD21	ASN	167	-10.614	-24.328	18.203	1.00	0.18
ATOM	1531	HD22	ASN	167	-12.229	-24.935	18.140	1.00	0.18
ATOM	1532	N	ALA	168	-9.966	-21.210	13.494	1.00	-0.26
ATOM	1533	CA	ALA	168	-9.075	-20.449	12.614	1.00	0.13
ATOM	1534	C	ALA	168	-9.184	-18.958	12.867	1.00	0.20
ATOM	1535	O	ALA	168	-8.192	-18.257	12.746	1.00	-0.39
ATOM	1536	CB	ALA	168	-9.408	-20.708	11.121	1.00	-0.02
ATOM	1537	H	ALA	168	-10.637	-21.832	13.076	1.00	0.19
ATOM	1538	HA	ALA	168	-8.040	-20.770	12.810	1.00	0.08
ATOM	1539	HB3	ALA	168	-10.435	-20.381	10.900	1.00	0.03
ATOM	1540	HB2	ALA	168	-9.321	-21.782	10.891	1.00	0.03
ATOM	1541	HB1	ALA	168	-8.713	-20.152	10.472	1.00	0.03
ATOM	1542	N	ILE	169	-10.395	-18.470	13.221	1.00	-0.26
ATOM	1543	CA	ILE	169	-10.599	-17.039	13.474	1.00	0.13
ATOM	1544	C	ILE	169	-9.520	-16.416	14.339	1.00	0.20
ATOM	1545	O	ILE	169	-9.277	-15.230	14.183	1.00	-0.39
ATOM	1546	CB	ILE	169	-11.995	-16.799	14.148	1.00	0.00
ATOM	1547	CG1	ILE	169	-12.524	-15.351	13.945	1.00	-0.05
ATOM	1548	CG2	ILE	169	-11.942	-17.165	15.656	1.00	-0.06
ATOM	1549	CD1	ILE	169	-13.954	-15.121	14.505	1.00	-0.06
ATOM	1550	HB	ILE	169	-12.736	-17.442	13.646	1.00	0.03
ATOM	1551	HG23	ILE	169	-11.399	-18.109	15.786	1.00	0.02
ATOM	1552	HG22	ILE	169	-12.948	-17.288	16.084	1.00	0.02
ATOM	1553	HG21	ILE	169	-11.419	-16.384	16.226	1.00	0.02
ATOM	1554	HG12	ILE	169	-12.564	-15.159	12.861	1.00	0.03
ATOM	1555	HG11	ILE	169	-11.838	-14.632	14.418	1.00	0.03
ATOM	1556	H	ILE	169	-11.183	-19.091	13.266	1.00	0.19
ATOM	1557	HA	ILE	169	-10.574	-16.540	12.492	1.00	0.08
ATOM	1558	HD13	ILE	169	-14.654	-15.870	14.104	1.00	0.02
ATOM	1559	HD12	ILE	169	-14.311	-14.121	14.214	1.00	0.02
ATOM	1560	HD11	ILE	169	-13.965	-15.175	15.604	1.00	0.02
ATOM	1561	N	CYS	170	-8.873	-17.154	15.272	1.00	-0.26
ATOM	1562	CA	CYS	170	-7.906	-16.515	16.168	1.00	0.14
ATOM	1563	C	CYS	170	-6.521	-16.496	15.558	1.00	0.20
ATOM	1564	O	CYS	170	-5.931	-15.434	15.430	1.00	-0.39
ATOM	1565	CB	CYS	170	-7.858	-17.236	17.542	1.00	0.03
ATOM	1566	SG	CYS	170	-9.515	-17.179	18.303	1.00	-0.17
ATOM	1567	LPG1	CYS	170	-10.285	-17.859	18.301	1.00	0.00
ATOM	1568	LPG2	CYS	170	-10.238	-18.946	17.527	1.00	0.00
ATOM	1569	HB2	CYS	170	-7.559	-18.289	17.429	1.00	0.04
ATOM	1570	HB1	CYS	170	-7.138	-16.734	18.209	1.00	0.04
ATOM	1571	HG	CYS	170	-9.311	-17.689	19.149	1.00	0.10
ATOM	1572	H	CYS	170	-9.030	-18.142	15.360	1.00	0.19
ATOM	1573	HA	CYS	170	-8.207	-15.475	16.379	1.00	0.08
ATOM	1574	N	ILE	171	-5.957	-17.666	15.180	1.00	-0.26
ATOM	1575	CA	ILE	171	-4.593	-17.666	14.647	1.00	0.13

ATOM	1576	C	ILE	171	-4.485	-16.710	13.483	1.00	0.20
ATOM	1577	O	ILE	171	-3.474	-16.037	13.354	1.00	-0.39
ATOM	1578	CB	ILE	171	-4.089	-19.087	14.236	1.00	0.00
ATOM	1579	CG1	ILE	171	-2.558	-19.062	13.939	1.00	-0.05
ATOM	1580	CG2	ILE	171	-4.879	-19.655	13.022	1.00	-0.06
ATOM	1581	CD1	ILE	171	-1.941	-20.463	13.681	1.00	-0.06
ATOM	1582	HB	ILE	171	-4.255	-19.751	15.102	1.00	0.03
ATOM	1583	HG23	ILE	171	-5.959	-19.570	13.187	1.00	0.02
ATOM	1584	HG22	ILE	171	-4.660	-20.722	12.871	1.00	0.02
ATOM	1585	HG21	ILE	171	-4.625	-19.114	12.098	1.00	0.02
ATOM	1586	HG12	ILE	171	-2.030	-18.624	14.803	1.00	0.03
ATOM	1587	HG11	ILE	171	-2.363	-18.428	13.060	1.00	0.03
ATOM	1588	HD13	ILE	171	-2.186	-21.150	14.505	1.00	0.02
ATOM	1589	HD12	ILE	171	-0.845	-20.380	13.611	1.00	0.02
ATOM	1590	HD11	ILE	171	-2.303	-20.895	12.736	1.00	0.02
ATOM	1591	H	ILE	171	-6.457	-18.528	15.267	1.00	0.19
ATOM	1592	HA	ILE	171	-3.941	-17.285	15.450	1.00	0.08
ATOM	1593	N	SER	172	-5.516	-16.620	12.617	1.00	-0.26
ATOM	1594	CA	SER	172	-5.407	-15.722	11.472	1.00	0.15
ATOM	1595	C	SER	172	-5.215	-14.297	11.940	1.00	0.21
ATOM	1596	O	SER	172	-4.171	-13.708	11.706	1.00	-0.39
ATOM	1597	CB	SER	172	-6.725	-15.782	10.659	1.00	0.08
ATOM	1598	OG	SER	172	-7.783	-15.489	11.587	1.00	-0.39
ATOM	1599	H	SER	172	-6.376	-17.126	12.756	1.00	0.19
ATOM	1600	HA	SER	172	-4.554	-16.014	10.838	1.00	0.08
ATOM	1601	HB2	SER	172	-6.862	-16.787	10.225	1.00	0.06
ATOM	1602	HB1	SER	172	-6.704	-15.040	9.848	1.00	0.06
ATOM	1603	HG	SER	172	-8.645	-15.410	11.186	1.00	0.21
ATOM	1604	N	VAL	173	-6.232	-13.708	12.603	1.00	-0.26
ATOM	1605	CA	VAL	173	-6.113	-12.305	12.992	1.00	0.13
ATOM	1606	C	VAL	173	-4.907	-12.106	13.881	1.00	0.20
ATOM	1607	O	VAL	173	-4.228	-11.099	13.743	1.00	-0.39
ATOM	1608	CB	VAL	173	-7.413	-11.751	13.650	1.00	-0.01
ATOM	1609	CG1	VAL	173	-7.651	-12.331	15.072	1.00	-0.06
ATOM	1610	CG2	VAL	173	-7.385	-10.199	13.719	1.00	-0.06
ATOM	1611	HB	VAL	173	-8.262	-12.045	13.007	1.00	0.03
ATOM	1612	HG23	VAL	173	-6.558	-9.866	14.360	1.00	0.02
ATOM	1613	HG22	VAL	173	-8.326	-9.815	14.142	1.00	0.02
ATOM	1614	HG21	VAL	173	-7.250	-9.760	12.718	1.00	0.02
ATOM	1615	HG13	VAL	173	-7.648	-13.428	15.048	1.00	0.02
ATOM	1616	HG12	VAL	173	-8.628	-12.001	15.457	1.00	0.02
ATOM	1617	HG11	VAL	173	-6.873	-11.994	15.773	1.00	0.02
ATOM	1618	H	VAL	173	-7.076	-14.222	12.794	1.00	0.19
ATOM	1619	HA	VAL	173	-5.940	-11.739	12.063	1.00	0.08
ATOM	1620	N	LEU	174	-4.600	-13.046	14.802	1.00	-0.26
ATOM	1621	CA	LEU	174	-3.434	-12.842	15.660	1.00	0.13
ATOM	1622	C	LEU	174	-2.178	-12.823	14.819	1.00	0.20
ATOM	1623	O	LEU	174	-1.365	-11.925	14.984	1.00	-0.39
ATOM	1624	CB	LEU	174	-3.296	-13.941	16.750	1.00	-0.01
ATOM	1625	CG	LEU	174	-4.431	-13.928	17.821	1.00	-0.04
ATOM	1626	CD1	LEU	174	-4.380	-15.243	18.648	1.00	-0.06
ATOM	1627	CD2	LEU	174	-4.331	-12.705	18.778	1.00	-0.06
ATOM	1628	H	LEU	174	-5.131	-13.899	14.883	1.00	0.19
ATOM	1629	HA	LEU	174	-3.508	-11.854	16.140	1.00	0.08
ATOM	1630	HB2	LEU	174	-2.326	-13.826	17.263	1.00	0.03
ATOM	1631	HB1	LEU	174	-3.282	-14.912	16.231	1.00	0.03
ATOM	1632	HG	LEU	174	-5.415	-13.881	17.326	1.00	0.03
ATOM	1633	HD13	LEU	174	-4.510	-16.119	17.992	1.00	0.02

ATOM	1634	HD12LEU	174	-5.183	-15.261	19.402	1.00	0.02
ATOM	1635	HD11LEU	174	-3.413	-15.333	19.165	1.00	0.02
ATOM	1636	HD23LEU	174	-3.344	-12.677	19.266	1.00	0.02
ATOM	1637	HD22LEU	174	-5.101	-12.773	19.562	1.00	0.02
ATOM	1638	HD21LEU	174	-4.488	-11.756	18.247	1.00	0.02
ATOM	1639	N VAL	175	-1.976	-13.795	13.903	1.00	-0.26
ATOM	1640	CA VAL	175	-0.759	-13.747	13.094	1.00	0.13
ATOM	1641	C VAL	175	-0.803	-12.499	12.241	1.00	0.20
ATOM	1642	O VAL	175	0.224	-11.857	12.086	1.00	-0.39
ATOM	1643	CB VAL	175	-0.509	-15.042	12.268	1.00	-0.01
ATOM	1644	CG1 VAL	175	0.726	-14.894	11.333	1.00	-0.06
ATOM	1645	CG2 VAL	175	-0.256	-16.246	13.221	1.00	-0.06
ATOM	1646	H VAL	175	-2.665	-14.508	13.724	1.00	0.19
ATOM	1647	HA VAL	175	0.101	-13.646	13.771	1.00	0.08
ATOM	1648	HB VAL	175	-1.404	-15.236	11.650	1.00	0.03
ATOM	1649	HG13VAL	175	0.599	-14.071	10.619	1.00	0.02
ATOM	1650	HG12VAL	175	0.881	-15.819	10.756	1.00	0.02
ATOM	1651	HG11VAL	175	1.634	-14.694	11.923	1.00	0.02
ATOM	1652	HG23VAL	175	0.681	-16.106	13.782	1.00	0.02
ATOM	1653	HG22VAL	175	-0.175	-17.179	12.642	1.00	0.02
ATOM	1654	HG21VAL	175	-1.066	-16.359	13.954	1.00	0.02
ATOM	1655	N TRP	176	-1.966	-12.104	11.680	1.00	-0.26
ATOM	1656	CA TRP	176	-1.988	-10.875	10.886	1.00	0.14
ATOM	1657	C TRP	176	-1.575	-9.703	11.754	1.00	0.21
ATOM	1658	O TRP	176	-0.754	-8.903	11.331	1.00	-0.39
ATOM	1659	CB TRP	176	-3.370	-10.603	10.236	1.00	0.00
ATOM	1660	CG TRP	176	-4.006	-11.771	9.514	1.00	-0.04
ATOM	1661	CD1 TRP	176	-5.297	-11.813	9.143	1.00	0.02
ATOM	1662	CD2 TRP	176	-3.394	-13.085	9.079	1.00	-0.02
ATOM	1663	NE1 TRP	176	-5.560	-12.961	8.574	1.00	-0.29
ATOM	1664	CE2 TRP	176	-4.477	-13.761	8.549	1.00	0.06
ATOM	1665	CE3 TRP	176	-2.129	-13.673	9.109	1.00	-0.07
ATOM	1666	CZ2 TRP	176	-4.377	-15.077	8.094	1.00	-0.04
ATOM	1667	CZ3 TRP	176	-2.002	-14.980	8.624	1.00	-0.08
ATOM	1668	CH2 TRP	176	-3.109	-15.669	8.108	1.00	-0.08
ATOM	1669	H TRP	176	-2.816	-12.629	11.812	1.00	0.19
ATOM	1670	HA TRP	176	-1.246	-10.940	10.076	1.00	0.08
ATOM	1671	HB2 TRP	176	-3.277	-9.765	9.526	1.00	0.04
ATOM	1672	HB1 TRP	176	-4.066	-10.294	11.030	1.00	0.04
ATOM	1673	HD1 TRP	176	-6.014	-11.006	9.299	1.00	0.08
ATOM	1674	HE1 TRP	176	-6.483	-13.220	8.198	1.00	0.22
ATOM	1675	HE3 TRP	176	-1.266	-13.149	9.482	1.00	0.05
ATOM	1676	HZ2 TRP	176	-5.245	-15.627	7.751	1.00	0.05
ATOM	1677	HZ3 TRP	176	-1.033	-15.468	8.646	1.00	0.05
ATOM	1678	HH2 TRP	176	-2.976	-16.672	7.717	1.00	0.05
ATOM	1679	N LEU	177	-2.118	-9.570	12.983	1.00	-0.26
ATOM	1680	CA LEU	177	-1.698	-8.459	13.839	1.00	0.13
ATOM	1681	C LEU	177	-0.222	-8.568	14.162	1.00	0.20
ATOM	1682	O LEU	177	0.483	-7.573	14.071	1.00	-0.39
ATOM	1683	CB LEU	177	-2.496	-8.412	15.174	1.00	-0.01
ATOM	1684	CG LEU	177	-3.992	-8.008	14.996	1.00	-0.04
ATOM	1685	CD1 LEU	177	-4.801	-8.407	16.263	1.00	-0.06
ATOM	1686	CD2 LEU	177	-4.163	-6.484	14.733	1.00	-0.06
ATOM	1687	HB2 LEU	177	-2.426	-9.411	15.631	1.00	0.03
ATOM	1688	HB1 LEU	177	-2.020	-7.699	15.867	1.00	0.03
ATOM	1689	HG LEU	177	-4.415	-8.550	14.134	1.00	0.03
ATOM	1690	HD13LEU	177	-4.769	-9.497	16.416	1.00	0.02
ATOM	1691	HD12LEU	177	-5.856	-8.108	16.163	1.00	0.02

ATOM	1692	HD11LEU	177	-4.382	-7.915	17.154	1.00	0.02
ATOM	1693	HD23LEU	177	-3.765	-5.900	15.576	1.00	0.02
ATOM	1694	HD22LEU	177	-5.230	-6.237	14.614	1.00	0.02
ATOM	1695	HD21LEU	177	-3.645	-6.169	13.817	1.00	0.02
ATOM	1696	H LEU	177	-2.779	-10.247	13.329	1.00	0.19
ATOM	1697	HA LEU	177	-1.834	-7.517	13.288	1.00	0.08
ATOM	1698	N ILE	178	0.271	-9.768	14.543	1.00	-0.26
ATOM	1699	CA ILE	178	1.703	-9.902	14.823	1.00	0.13
ATOM	1700	C ILE	178	2.464	-9.447	13.597	1.00	0.20
ATOM	1701	O ILE	178	3.406	-8.673	13.698	1.00	-0.39
ATOM	1702	CB ILE	178	2.113	-11.353	15.223	1.00	0.00
ATOM	1703	CG1 ILE	178	1.524	-11.713	16.625	1.00	-0.05
ATOM	1704	CG2 ILE	178	3.662	-11.520	15.205	1.00	-0.06
ATOM	1705	CD1 ILE	178	1.522	-13.235	16.934	1.00	-0.06
ATOM	1706	HB ILE	178	1.701	-12.032	14.463	1.00	0.03
ATOM	1707	H ILE	178	-0.328	-10.577	14.588	1.00	0.19
ATOM	1708	HA ILE	178	1.970	-9.252	15.666	1.00	0.08
ATOM	1709	HG23ILE	178	4.072	-11.344	14.199	1.00	0.02
ATOM	1710	HG22ILE	178	3.960	-12.536	15.497	1.00	0.02
ATOM	1711	HG21ILE	178	4.129	-10.805	15.900	1.00	0.02
ATOM	1712	HG12ILE	178	0.479	-11.372	16.695	1.00	0.03
ATOM	1713	HG11ILE	178	2.090	-11.183	17.408	1.00	0.03
ATOM	1714	HD13ILE	178	0.969	-13.785	16.158	1.00	0.02
ATOM	1715	HD12ILE	178	1.026	-13.416	17.901	1.00	0.02
ATOM	1716	HD11ILE	178	2.541	-13.641	16.999	1.00	0.02
ATOM	1717	N VAL	179	2.065	-9.934	12.405	1.00	-0.26
ATOM	1718	CA VAL	179	2.787	-9.554	11.196	1.00	0.13
ATOM	1719	C VAL	179	2.662	-8.066	10.957	1.00	0.20
ATOM	1720	O VAL	179	3.657	-7.459	10.594	1.00	-0.39
ATOM	1721	CB VAL	179	2.363	-10.430	9.982	1.00	-0.01
ATOM	1722	CG1 VAL	179	2.900	-9.852	8.645	1.00	-0.06
ATOM	1723	CG2 VAL	179	2.894	-11.879	10.185	1.00	-0.06
ATOM	1724	H VAL	179	1.264	-10.538	12.335	1.00	0.19
ATOM	1725	HA VAL	179	3.856	-9.748	11.369	1.00	0.08
ATOM	1726	HB VAL	179	1.262	-10.442	9.919	1.00	0.03
ATOM	1727	HG13VAL	179	2.476	-8.854	8.464	1.00	0.02
ATOM	1728	HG12VAL	179	2.615	-10.495	7.800	1.00	0.02
ATOM	1729	HG11VAL	179	3.997	-9.779	8.674	1.00	0.02
ATOM	1730	HG23VAL	179	3.994	-11.897	10.148	1.00	0.02
ATOM	1731	HG22VAL	179	2.518	-12.543	9.398	1.00	0.02
ATOM	1732	HG21VAL	179	2.580	-12.288	11.155	1.00	0.02
ATOM	1733	N VAL	180	1.492	-7.420	11.154	1.00	-0.26
ATOM	1734	CA VAL	180	1.454	-5.964	10.989	1.00	0.13
ATOM	1735	C VAL	180	2.494	-5.328	11.884	1.00	0.20
ATOM	1736	O VAL	180	3.320	-4.566	11.398	1.00	-0.39
ATOM	1737	CB VAL	180	0.061	-5.329	11.293	1.00	-0.01
ATOM	1738	CG1 VAL	180	0.144	-3.780	11.437	1.00	-0.06
ATOM	1739	CG2 VAL	180	-0.949	-5.675	10.167	1.00	-0.06
ATOM	1740	H VAL	180	0.670	-7.922	11.444	1.00	0.19
ATOM	1741	HA VAL	180	1.724	-5.722	9.949	1.00	0.08
ATOM	1742	HB VAL	180	-0.313	-5.736	12.247	1.00	0.03
ATOM	1743	HG13VAL	180	0.740	-3.488	12.316	1.00	0.02
ATOM	1744	HG12VAL	180	-0.863	-3.352	11.562	1.00	0.02
ATOM	1745	HG11VAL	180	0.604	-3.335	10.540	1.00	0.02
ATOM	1746	HG23VAL	180	-0.629	-5.194	9.230	1.00	0.02
ATOM	1747	HG22VAL	180	-1.958	-5.316	10.421	1.00	0.02
ATOM	1748	HG21VAL	180	-1.002	-6.760	10.005	1.00	0.02
ATOM	1749	N VAL	181	2.476	-5.609	13.206	1.00	-0.26

ATOM	1750	CA	VAL	181	3.443	-4.937	14.075	1.00	0.13
ATOM	1751	C	VAL	181	4.856	-5.397	13.787	1.00	0.20
ATOM	1752	O	VAL	181	5.766	-4.664	14.136	1.00	-0.39
ATOM	1753	CB	VAL	181	3.135	-4.975	15.601	1.00	-0.01
ATOM	1754	CG1	VAL	181	1.750	-4.337	15.906	1.00	-0.06
ATOM	1755	CG2	VAL	181	3.215	-6.408	16.186	1.00	-0.06
ATOM	1756	HB	VAL	181	3.906	-4.371	16.114	1.00	0.03
ATOM	1757	H	VAL	181	1.835	-6.289	13.580	1.00	0.19
ATOM	1758	HA	VAL	181	3.434	-3.868	13.803	1.00	0.08
ATOM	1759	HG23	VAL	181	2.383	-7.003	15.797	1.00	0.02
ATOM	1760	HG22	VAL	181	3.132	-6.382	17.284	1.00	0.02
ATOM	1761	HG21	VAL	181	4.163	-6.900	15.919	1.00	0.02
ATOM	1762	HG13	VAL	181	1.712	-3.300	15.538	1.00	0.02
ATOM	1763	HG12	VAL	181	1.569	-4.324	16.992	1.00	0.02
ATOM	1764	HG11	VAL	181	0.939	-4.905	15.427	1.00	0.02
ATOM	1765	N	ALA	182	5.094	-6.571	13.159	1.00	-0.26
ATOM	1766	CA	ALA	182	6.446	-6.874	12.682	1.00	0.13
ATOM	1767	C	ALA	182	6.760	-6.116	11.405	1.00	0.20
ATOM	1768	O	ALA	182	7.891	-5.694	11.226	1.00	-0.39
ATOM	1769	CB	ALA	182	6.615	-8.387	12.394	1.00	-0.02
ATOM	1770	HB3	ALA	182	5.988	-8.681	11.540	1.00	0.03
ATOM	1771	HB2	ALA	182	6.320	-8.976	13.276	1.00	0.03
ATOM	1772	HB1	ALA	182	7.664	-8.614	12.147	1.00	0.03
ATOM	1773	H	ALA	182	4.349	-7.219	12.966	1.00	0.19
ATOM	1774	HA	ALA	182	7.185	-6.591	13.451	1.00	0.08
ATOM	1775	N	ILE	183	5.791	-5.928	10.482	1.00	-0.26
ATOM	1776	CA	ILE	183	6.072	-5.176	9.255	1.00	0.13
ATOM	1777	C	ILE	183	6.324	-3.719	9.586	1.00	0.20
ATOM	1778	O	ILE	183	7.276	-3.144	9.078	1.00	-0.39
ATOM	1779	CB	ILE	183	4.923	-5.327	8.204	1.00	0.00
ATOM	1780	CG1	ILE	183	4.973	-6.753	7.570	1.00	-0.05
ATOM	1781	CG2	ILE	183	5.000	-4.232	7.105	1.00	-0.06
ATOM	1782	CD1	ILE	183	3.817	-7.051	6.575	1.00	-0.06
ATOM	1783	H	ILE	183	4.863	-6.277	10.644	1.00	0.19
ATOM	1784	HA	ILE	183	7.001	-5.559	8.803	1.00	0.08
ATOM	1785	HB	ILE	183	3.958	-5.187	8.718	1.00	0.03
ATOM	1786	HG12	ILE	183	4.932	-7.492	8.383	1.00	0.03
ATOM	1787	HG11	ILE	183	5.928	-6.898	7.040	1.00	0.03
ATOM	1788	HG23	ILE	183	4.968	-3.223	7.543	1.00	0.02
ATOM	1789	HG22	ILE	183	4.152	-4.296	6.408	1.00	0.02
ATOM	1790	HG21	ILE	183	5.935	-4.352	6.541	1.00	0.02
ATOM	1791	HD13	ILE	183	2.846	-6.795	7.025	1.00	0.02
ATOM	1792	HD12	ILE	183	3.814	-8.121	6.314	1.00	0.02
ATOM	1793	HD11	ILE	183	3.934	-6.488	5.637	1.00	0.02
ATOM	1794	N	SER	184	5.467	-3.090	10.418	1.00	-0.26
ATOM	1795	CA	SER	184	5.634	-1.661	10.697	1.00	0.15
ATOM	1796	C	SER	184	7.068	-1.199	10.916	1.00	0.21
ATOM	1797	O	SER	184	7.506	-0.347	10.155	1.00	-0.39
ATOM	1798	CB	SER	184	4.698	-1.217	11.852	1.00	0.08
ATOM	1799	OG	SER	184	3.329	-1.344	11.424	1.00	-0.39
ATOM	1800	HB2	SER	184	4.856	-1.853	12.734	1.00	0.06
ATOM	1801	HB1	SER	184	4.918	-0.173	12.125	1.00	0.06
ATOM	1802	HG	SER	184	2.696	-1.099	12.093	1.00	0.21
ATOM	1803	H	SER	184	4.671	-3.575	10.804	1.00	0.19
ATOM	1804	HA	SER	184	5.288	-1.130	9.797	1.00	0.08
ATOM	1805	N	PRO	185	7.874	-1.683	11.895	1.00	-0.25
ATOM	1806	CA	PRO	185	9.232	-1.176	12.014	1.00	0.13
ATOM	1807	C	PRO	185	10.031	-1.476	10.766	1.00	0.20

ATOM	1808	O PRO	185	10.894	-0.689	10.410	1.00	-0.39
ATOM	1809	CB PRO	185	9.733	-1.972	13.247	1.00	-0.01
ATOM	1810	CG PRO	185	8.862	-3.249	13.266	1.00	-0.03
ATOM	1811	CD PRO	185	7.475	-2.738	12.811	1.00	0.04
ATOM	1812	HA PRO	185	9.236	-0.098	12.230	1.00	0.08
ATOM	1813	HB2 PRO	185	9.524	-1.399	14.166	1.00	0.03
ATOM	1814	HB1 PRO	185	10.809	-2.197	13.208	1.00	0.03
ATOM	1815	HG1 PRO	185	9.267	-3.966	12.536	1.00	0.03
ATOM	1816	HG2 PRO	185	8.832	-3.741	14.252	1.00	0.03
ATOM	1817	HD1 PRO	185	6.895	-3.540	12.340	1.00	0.05
ATOM	1818	HD2 PRO	185	6.941	-2.316	13.676	1.00	0.05
ATOM	1819	N ILE	186	9.769	-2.601	10.066	1.00	-0.26
ATOM	1820	CA ILE	186	10.597	-2.936	8.912	1.00	0.13
ATOM	1821	C ILE	186	10.374	-1.879	7.860	1.00	0.20
ATOM	1822	O ILE	186	11.342	-1.283	7.417	1.00	-0.39
ATOM	1823	CB ILE	186	10.318	-4.371	8.368	1.00	0.00
ATOM	1824	CG1 ILE	186	10.773	-5.434	9.417	1.00	-0.05
ATOM	1825	CG2 ILE	186	11.016	-4.585	6.997	1.00	-0.06
ATOM	1826	CD1 ILE	186	10.308	-6.880	9.094	1.00	-0.06
ATOM	1827	H ILE	186	8.977	-3.180	10.275	1.00	0.19
ATOM	1828	HA ILE	186	11.659	-2.889	9.210	1.00	0.08
ATOM	1829	HB ILE	186	9.236	-4.477	8.198	1.00	0.03
ATOM	1830	HG12ILE	186	10.357	-5.173	10.403	1.00	0.03
ATOM	1831	HG11ILE	186	11.872	-5.420	9.507	1.00	0.03
ATOM	1832	HG23ILE	186	10.660	-3.858	6.251	1.00	0.02
ATOM	1833	HG22ILE	186	10.797	-5.585	6.598	1.00	0.02
ATOM	1834	HG21ILE	186	12.105	-4.470	7.105	1.00	0.02
ATOM	1835	HD13ILE	186	9.220	-6.909	8.933	1.00	0.02
ATOM	1836	HD12ILE	186	10.548	-7.544	9.940	1.00	0.02
ATOM	1837	HD11ILE	186	10.811	-7.282	8.203	1.00	0.02
ATOM	1838	N LEU	187	9.123	-1.609	7.434	1.00	-0.26
ATOM	1839	CA LEU	187	8.933	-0.586	6.401	1.00	0.13
ATOM	1840	C LEU	187	9.200	0.793	6.958	1.00	0.20
ATOM	1841	O LEU	187	9.667	1.654	6.223	1.00	-0.39
ATOM	1842	CB LEU	187	7.516	-0.644	5.778	1.00	-0.01
ATOM	1843	CG LEU	187	7.263	-1.951	4.971	1.00	-0.04
ATOM	1844	CD1 LEU	187	5.762	-2.035	4.598	1.00	-0.06
ATOM	1845	CD2 LEU	187	8.096	-2.038	3.659	1.00	-0.06
ATOM	1846	H LEU	187	8.332	-2.068	7.858	1.00	0.19
ATOM	1847	HA LEU	187	9.682	-0.722	5.605	1.00	0.08
ATOM	1848	HB2 LEU	187	7.365	0.213	5.106	1.00	0.03
ATOM	1849	HB1 LEU	187	6.793	-0.554	6.606	1.00	0.03
ATOM	1850	HG LEU	187	7.524	-2.816	5.603	1.00	0.03
ATOM	1851	HD13LEU	187	5.122	-1.934	5.485	1.00	0.02
ATOM	1852	HD12LEU	187	5.558	-3.009	4.129	1.00	0.02
ATOM	1853	HD11LEU	187	5.501	-1.228	3.896	1.00	0.02
ATOM	1854	HD23LEU	187	7.928	-1.140	3.047	1.00	0.02
ATOM	1855	HD22LEU	187	7.800	-2.919	3.069	1.00	0.02
ATOM	1856	HD21LEU	187	9.171	-2.133	3.860	1.00	0.02
ATOM	1857	N PHE	188	8.948	1.056	8.260	1.00	-0.26
ATOM	1858	CA PHE	188	9.424	2.327	8.800	1.00	0.14
ATOM	1859	C PHE	188	10.897	2.418	8.466	1.00	0.21
ATOM	1860	O PHE	188	11.334	3.478	8.041	1.00	-0.39
ATOM	1861	CB PHE	188	9.222	2.467	10.328	1.00	0.02
ATOM	1862	CG PHE	188	7.757	2.454	10.803	1.00	-0.04
ATOM	1863	CD1 PHE	188	6.656	2.388	9.936	1.00	-0.06
ATOM	1864	CD2 PHE	188	7.522	2.511	12.182	1.00	-0.06
ATOM	1865	CE1 PHE	188	5.353	2.375	10.441	1.00	-0.07

ATOM	1866	CE2	PHE	188	6.220	2.515	12.690	1.00	-0.07
ATOM	1867	CZ	PHE	188	5.131	2.453	11.818	1.00	-0.07
ATOM	1868	H	PHE	188	8.522	0.383	8.879	1.00	0.19
ATOM	1869	HA	PHE	188	8.918	3.164	8.291	1.00	0.08
ATOM	1870	HB2	PHE	188	9.676	3.410	10.668	1.00	0.05
ATOM	1871	HB1	PHE	188	9.772	1.650	10.810	1.00	0.05
ATOM	1872	HD1	PHE	188	6.780	2.340	8.862	1.00	0.06
ATOM	1873	HD2	PHE	188	8.359	2.554	12.872	1.00	0.06
ATOM	1874	HE1	PHE	188	4.509	2.305	9.762	1.00	0.06
ATOM	1875	HE2	PHE	188	6.054	2.568	13.762	1.00	0.06
ATOM	1876	HZ	PHE	188	4.117	2.462	12.207	1.00	0.06
ATOM	1877	N	TYR	189	11.688	1.329	8.593	1.00	-0.26
ATOM	1878	CA	TYR	189	13.089	1.397	8.173	1.00	0.14
ATOM	1879	C	TYR	189	13.227	1.295	6.659	1.00	0.21
ATOM	1880	O	TYR	189	13.583	2.282	6.030	1.00	-0.39
ATOM	1881	CB	TYR	189	13.951	0.343	8.925	1.00	0.02
ATOM	1882	CG	TYR	189	13.608	0.225	10.423	1.00	-0.05
ATOM	1883	CD1	TYR	189	13.121	1.307	11.170	1.00	-0.07
ATOM	1884	CD2	TYR	189	13.770	-1.010	11.062	1.00	-0.07
ATOM	1885	CE1	TYR	189	12.695	1.128	12.490	1.00	-0.04
ATOM	1886	CE2	TYR	189	13.367	-1.185	12.389	1.00	-0.04
ATOM	1887	CZ	TYR	189	12.807	-0.125	13.104	1.00	0.08
ATOM	1888	OH	TYR	189	12.371	-0.338	14.415	1.00	-0.34
ATOM	1889	H	TYR	189	11.328	0.452	8.937	1.00	0.19
ATOM	1890	HA	TYR	189	13.507	2.379	8.450	1.00	0.08
ATOM	1891	HB1	TYR	189	15.024	0.571	8.820	1.00	0.05
ATOM	1892	HB2	TYR	189	13.771	-0.642	8.471	1.00	0.05
ATOM	1893	HD1	TYR	189	13.060	2.300	10.742	1.00	0.05
ATOM	1894	HD2	TYR	189	14.206	-1.849	10.529	1.00	0.05
ATOM	1895	HE1	TYR	189	12.277	1.970	13.032	1.00	0.05
ATOM	1896	HE2	TYR	189	13.487	-2.150	12.870	1.00	0.05
ATOM	1897	HH	TYR	189	12.142	0.457	14.883	1.00	0.25
ATOM	1898	N	SER	190	12.947	0.147	6.003	1.00	-0.26
ATOM	1899	CA	SER	190	13.256	0.000	4.576	1.00	0.16
ATOM	1900	C	SER	190	12.354	0.814	3.679	1.00	0.25
ATOM	1901	O	SER	190	11.489	1.544	4.135	1.00	-0.33
ATOM	1902	CB	SER	190	13.145	-1.485	4.138	1.00	0.08
ATOM	1903	OG	SER	190	11.775	-1.893	4.281	1.00	-0.39
ATOM	1904	H	SER	190	12.508	-0.622	6.475	1.00	0.19
ATOM	1905	HA	SER	190	14.290	0.339	4.396	1.00	0.08
ATOM	1906	HB2	SER	190	13.800	-2.105	4.773	1.00	0.06
ATOM	1907	HB1	SER	190	13.465	-1.599	3.087	1.00	0.06
ATOM	1908	HG	SER	190	11.626	-2.798	4.026	1.00	0.21
TER	1909		SER	190					
ATOM	1910	C	ACE	214	19.128	2.680	-2.048	1.00	0.18
ATOM	1911	O	ACE	214	18.709	1.584	-1.714	1.00	-0.40
ATOM	1912	CH3	ACE	214	20.208	3.322	-1.216	1.00	0.03
ATOM	1913	H	ACE	214	20.319	2.797	-0.256	1.00	0.05
ATOM	1914	H	ACE	214	19.952	4.372	-1.009	1.00	0.05
ATOM	1915	H	ACE	214	21.162	3.281	-1.762	1.00	0.05
ATOM	1916	N	PHE	215	18.673	3.340	-3.137	1.00	-0.26
ATOM	1917	CA	PHE	215	17.555	2.805	-3.919	1.00	0.14
ATOM	1918	C	PHE	215	17.686	1.322	-4.188	1.00	0.21
ATOM	1919	O	PHE	215	16.735	0.597	-3.950	1.00	-0.39
ATOM	1920	CB	PHE	215	17.386	3.526	-5.284	1.00	0.02
ATOM	1921	CG	PHE	215	16.986	4.994	-5.083	1.00	-0.04
ATOM	1922	CD1	PHE	215	15.661	5.308	-4.759	1.00	-0.06
ATOM	1923	CD2	PHE	215	17.921	6.027	-5.223	1.00	-0.06

ATOM	1924	CE1 PHE	215	15.268	6.638	-4.589	1.00	-0.07
ATOM	1925	CE2 PHE	215	17.536	7.356	-5.029	1.00	-0.07
ATOM	1926	CZ PHE	215	16.210	7.663	-4.712	1.00	-0.07
ATOM	1927	H PHE	215	19.048	4.236	-3.377	1.00	0.19
ATOM	1928	HA PHE	215	16.635	2.957	-3.335	1.00	0.08
ATOM	1929	HB2 PHE	215	16.585	3.045	-5.867	1.00	0.05
ATOM	1930	HB1 PHE	215	18.317	3.451	-5.866	1.00	0.05
ATOM	1931	HD1 PHE	215	14.927	4.518	-4.641	1.00	0.06
ATOM	1932	HD2 PHE	215	18.950	5.804	-5.485	1.00	0.06
ATOM	1933	HE1 PHE	215	14.232	6.871	-4.362	1.00	0.06
ATOM	1934	HE2 PHE	215	18.267	8.153	-5.125	1.00	0.06
ATOM	1935	HZ PHE	215	15.913	8.696	-4.562	1.00	0.06
ATOM	1936	N ILE	216	18.835	0.823	-4.689	1.00	-0.26
ATOM	1937	CA ILE	216	18.940	-0.621	-4.918	1.00	0.13
ATOM	1938	C ILE	216	18.625	-1.385	-3.652	1.00	0.20
ATOM	1939	O ILE	216	17.959	-2.407	-3.715	1.00	-0.39
ATOM	1940	CB ILE	216	20.332	-1.059	-5.476	1.00	0.00
ATOM	1941	CG1 ILE	216	20.276	-2.542	-5.962	1.00	-0.05
ATOM	1942	CG2 ILE	216	21.472	-0.850	-4.436	1.00	-0.06
ATOM	1943	CD1 ILE	216	21.586	-3.026	-6.640	1.00	-0.06
ATOM	1944	HB ILE	216	20.543	-0.423	-6.352	1.00	0.03
ATOM	1945	HG23ILE	216	21.441	0.159	-3.999	1.00	0.02
ATOM	1946	HG22ILE	216	22.460	-0.964	-4.906	1.00	0.02
ATOM	1947	HG21ILE	216	21.391	-1.587	-3.624	1.00	0.02
ATOM	1948	H ILE	216	19.606	1.425	-4.895	1.00	0.19
ATOM	1949	HA ILE	216	18.168	-0.886	-5.659	1.00	0.08
ATOM	1950	HG12ILE	216	19.462	-2.647	-6.699	1.00	0.03
ATOM	1951	HG11ILE	216	20.053	-3.212	-5.116	1.00	0.03
ATOM	1952	HD13ILE	216	21.885	-2.332	-7.441	1.00	0.02
ATOM	1953	HD12ILE	216	21.430	-4.023	-7.084	1.00	0.02
ATOM	1954	HD11ILE	216	22.407	-3.110	-5.913	1.00	0.02
ATOM	1955	N TYR	217	19.095	-0.912	-2.479	1.00	-0.26
ATOM	1956	CA TYR	217	18.884	-1.672	-1.254	1.00	0.14
ATOM	1957	C TYR	217	17.466	-1.476	-0.788	1.00	0.21
ATOM	1958	O TYR	217	16.823	-2.459	-0.460	1.00	-0.39
ATOM	1959	CB TYR	217	19.875	-1.243	-0.141	1.00	0.02
ATOM	1960	CG TYR	217	21.306	-1.410	-0.670	1.00	-0.05
ATOM	1961	CD1 TYR	217	21.867	-2.688	-0.766	1.00	-0.07
ATOM	1962	CD2 TYR	217	22.059	-0.301	-1.071	1.00	-0.07
ATOM	1963	CE1 TYR	217	23.147	-2.862	-1.303	1.00	-0.04
ATOM	1964	CE2 TYR	217	23.338	-0.474	-1.606	1.00	-0.04
ATOM	1965	CZ TYR	217	23.885	-1.753	-1.735	1.00	0.08
ATOM	1966	OH TYR	217	25.159	-1.896	-2.293	1.00	-0.34
ATOM	1967	H TYR	217	19.531	-0.012	-2.415	1.00	0.19
ATOM	1968	HA TYR	217	19.044	-2.745	-1.453	1.00	0.08
ATOM	1969	HB1 TYR	217	19.733	-1.871	0.753	1.00	0.05
ATOM	1970	HB2 TYR	217	19.686	-0.198	0.151	1.00	0.05
ATOM	1971	HD1 TYR	217	21.309	-3.555	-0.426	1.00	0.05
ATOM	1972	HD2 TYR	217	21.656	0.700	-0.974	1.00	0.05
ATOM	1973	HE1 TYR	217	23.558	-3.863	-1.380	1.00	0.05
ATOM	1974	HE2 TYR	217	23.914	0.387	-1.927	1.00	0.05
ATOM	1975	HH TYR	217	25.476	-2.791	-2.322	1.00	0.25
ATOM	1976	N SER	218	16.948	-0.228	-0.748	1.00	-0.26
ATOM	1977	CA SER	218	15.567	-0.059	-0.309	1.00	0.15
ATOM	1978	C SER	218	14.674	-0.821	-1.253	1.00	0.21
ATOM	1979	O SER	218	13.846	-1.581	-0.778	1.00	-0.39
ATOM	1980	CB SER	218	15.091	1.417	-0.285	1.00	0.08
ATOM	1981	OG SER	218	15.042	1.944	-1.624	1.00	-0.39

ATOM	1982	H	SER	218	17.470	0.574	-1.057	1.00	0.19
ATOM	1983	HA	SER	218	15.465	-0.482	0.705	1.00	0.08
ATOM	1984	HB2	SER	218	15.778	2.009	0.342	1.00	0.06
ATOM	1985	HB1	SER	218	14.081	1.454	0.160	1.00	0.06
ATOM	1986	HG	SER	218	14.716	2.839	-1.663	1.00	0.21
ATOM	1987	N	MET	219	14.833	-0.637	-2.583	1.00	-0.26
ATOM	1988	CA	MET	219	14.026	-1.405	-3.525	1.00	0.13
ATOM	1989	C	MET	219	14.212	-2.883	-3.260	1.00	0.20
ATOM	1990	O	MET	219	13.231	-3.582	-3.068	1.00	-0.39
ATOM	1991	CB	MET	219	14.360	-1.143	-5.020	1.00	0.00
ATOM	1992	CG	MET	219	13.936	0.272	-5.500	1.00	0.00
ATOM	1993	SD	MET	219	14.160	0.413	-7.307	1.00	-0.16
ATOM	1994	CE	MET	219	15.948	0.176	-7.542	1.00	-0.02
ATOM	1995	H	MET	219	15.520	0.008	-2.932	1.00	0.19
ATOM	1996	HA	MET	219	12.968	-1.142	-3.381	1.00	0.08
ATOM	1997	HB2	MET	219	13.816	-1.879	-5.636	1.00	0.03
ATOM	1998	HB1	MET	219	15.438	-1.296	-5.178	1.00	0.03
ATOM	1999	HG2	MET	219	14.504	1.069	-5.000	1.00	0.04
ATOM	2000	HG1	MET	219	12.865	0.437	-5.303	1.00	0.04
ATOM	2001	LPD2	MET	219	14.393	1.981	-6.546	1.00	0.00
ATOM	2002	LPD1	MET	219	14.962	2.594	-5.818	1.00	0.00
ATOM	2003	HE3	MET	219	16.223	0.543	-8.542	1.00	0.03
ATOM	2004	HE2	MET	219	16.198	-0.892	-7.474	1.00	0.03
ATOM	2005	HE1	MET	219	16.509	0.739	-6.785	1.00	0.03
ATOM	2006	N	CYS	220	15.455	-3.408	-3.255	1.00	-0.26
ATOM	2007	CA	CYS	220	15.608	-4.855	-3.104	1.00	0.14
ATOM	2008	C	CYS	220	15.001	-5.339	-1.806	1.00	0.20
ATOM	2009	O	CYS	220	14.224	-6.283	-1.815	1.00	-0.39
ATOM	2010	CB	CYS	220	17.100	-5.277	-3.149	1.00	0.03
ATOM	2011	SG	CYS	220	17.230	-7.089	-2.977	1.00	-0.17
ATOM	2012	H	CYS	220	16.273	-2.832	-3.365	1.00	0.19
ATOM	2013	HA	CYS	220	15.084	-5.354	-3.936	1.00	0.08
ATOM	2014	HB2	CYS	220	17.657	-4.794	-2.331	1.00	0.04
ATOM	2015	HB1	CYS	220	17.546	-4.976	-4.111	1.00	0.04
ATOM	2016	LPG2	CYS	220	16.446	-6.302	-3.919	1.00	0.00
ATOM	2017	LPG1	CYS	220	16.466	-6.469	-2.823	1.00	0.00
ATOM	2018	HG	CYS	220	18.235	-7.172	-3.022	1.00	0.10
ATOM	2019	N	THR	221	15.347	-4.714	-0.662	1.00	-0.26
ATOM	2020	CA	THR	221	14.848	-5.233	0.608	1.00	0.16
ATOM	2021	C	THR	221	13.364	-4.990	0.698	1.00	0.21
ATOM	2022	O	THR	221	12.634	-5.904	1.044	1.00	-0.39
ATOM	2023	CB	THR	221	15.534	-4.580	1.839	1.00	0.09
ATOM	2024	OG1	THR	221	15.325	-3.156	1.796	1.00	-0.39
ATOM	2025	CG2	THR	221	17.050	-4.920	1.883	1.00	-0.03
ATOM	2026	H	THR	221	15.905	-3.877	-0.663	1.00	0.19
ATOM	2027	HA	THR	221	15.022	-6.321	0.650	1.00	0.08
ATOM	2028	HB	THR	221	15.060	-4.983	2.752	1.00	0.06
ATOM	2029	HG1	THR	221	15.761	-2.697	2.506	1.00	0.21
ATOM	2030	HG22	THR	221	17.508	-4.488	2.785	1.00	0.03
ATOM	2031	HG21	THR	221	17.573	-4.516	1.004	1.00	0.03
ATOM	2032	HG23	THR	221	17.199	-6.010	1.908	1.00	0.03
ATOM	2033	N	THR	222	12.876	-3.770	0.400	1.00	-0.26
ATOM	2034	CA	THR	222	11.440	-3.536	0.533	1.00	0.16
ATOM	2035	C	THR	222	10.678	-4.383	-0.463	1.00	0.21
ATOM	2036	O	THR	222	9.608	-4.858	-0.119	1.00	-0.39
ATOM	2037	CB	THR	222	11.058	-2.034	0.430	1.00	0.09
ATOM	2038	OG1	THR	222	9.817	-1.792	1.119	1.00	-0.39
ATOM	2039	CG2	THR	222	10.913	-1.574	-1.040	1.00	-0.03

ATOM	2040	H	THR	222	13.482	-3.033	0.077	1.00	0.19
ATOM	2041	HA	THR	222	11.146	-3.843	1.548	1.00	0.08
ATOM	2042	HB	THR	222	11.851	-1.460	0.940	1.00	0.06
ATOM	2043	HG1	THR	222	9.554	-0.877	1.105	1.00	0.21
ATOM	2044	HG22	THR	222	9.934	-1.859	-1.449	1.00	0.03
ATOM	2045	HG21	THR	222	11.681	-2.014	-1.675	1.00	0.03
ATOM	2046	HG23	THR	222	11.029	-0.487	-1.085	1.00	0.03
ATOM	2047	N	VAL	223	11.181	-4.614	-1.699	1.00	-0.26
ATOM	2048	CA	VAL	223	10.428	-5.447	-2.637	1.00	0.13
ATOM	2049	C	VAL	223	10.488	-6.875	-2.148	1.00	0.20
ATOM	2050	O	VAL	223	9.454	-7.521	-2.080	1.00	-0.39
ATOM	2051	CB	VAL	223	10.899	-5.309	-4.115	1.00	-0.01
ATOM	2052	CG1	VAL	223	10.219	-6.371	-5.025	1.00	-0.06
ATOM	2053	CG2	VAL	223	10.573	-3.885	-4.656	1.00	-0.06
ATOM	2054	H	VAL	223	12.091	-4.288	-1.976	1.00	0.19
ATOM	2055	HA	VAL	223	9.374	-5.139	-2.629	1.00	0.08
ATOM	2056	HB	VAL	223	11.988	-5.483	-4.159	1.00	0.03
ATOM	2057	HG13	VAL	223	10.508	-7.391	-4.728	1.00	0.02
ATOM	2058	HG12	VAL	223	10.523	-6.227	-6.074	1.00	0.02
ATOM	2059	HG11	VAL	223	9.123	-6.286	-4.964	1.00	0.02
ATOM	2060	HG23	VAL	223	9.484	-3.738	-4.716	1.00	0.02
ATOM	2061	HG22	VAL	223	10.998	-3.749	-5.662	1.00	0.02
ATOM	2062	HG21	VAL	223	10.981	-3.100	-4.004	1.00	0.02
ATOM	2063	N	ALA	224	11.680	-7.399	-1.790	1.00	-0.26
ATOM	2064	CA	ALA	224	11.719	-8.762	-1.262	1.00	0.13
ATOM	2065	C	ALA	224	10.807	-8.864	-0.058	1.00	0.20
ATOM	2066	O	ALA	224	9.996	-9.774	0.019	1.00	-0.39
ATOM	2067	CB	ALA	224	13.158	-9.173	-0.858	1.00	-0.02
ATOM	2068	HB3	ALA	224	13.550	-8.497	-0.083	1.00	0.03
ATOM	2069	HB2	ALA	224	13.823	-9.126	-1.734	1.00	0.03
ATOM	2070	HB1	ALA	224	13.163	-10.202	-0.465	1.00	0.03
ATOM	2071	H	ALA	224	12.534	-6.867	-1.850	1.00	0.19
ATOM	2072	HA	ALA	224	11.353	-9.456	-2.038	1.00	0.08
ATOM	2073	N	MET	225	10.907	-7.922	0.903	1.00	-0.26
ATOM	2074	CA	MET	225	10.033	-7.980	2.075	1.00	0.13
ATOM	2075	C	MET	225	8.590	-7.868	1.633	1.00	0.20
ATOM	2076	O	MET	225	7.769	-8.639	2.103	1.00	-0.39
ATOM	2077	CB	MET	225	10.383	-6.854	3.085	1.00	0.00
ATOM	2078	CG	MET	225	11.778	-7.090	3.731	1.00	0.00
ATOM	2079	SD	MET	225	12.479	-5.499	4.277	1.00	-0.16
ATOM	2080	CE	MET	225	13.895	-6.083	5.258	1.00	-0.02
ATOM	2081	H	MET	225	11.548	-7.156	0.796	1.00	0.19
ATOM	2082	HA	MET	225	10.160	-8.954	2.576	1.00	0.08
ATOM	2083	HB2	MET	225	9.621	-6.801	3.881	1.00	0.03
ATOM	2084	HB1	MET	225	10.359	-5.898	2.543	1.00	0.03
ATOM	2085	HG2	MET	225	12.496	-7.524	3.020	1.00	0.04
ATOM	2086	HG1	MET	225	11.688	-7.778	4.586	1.00	0.04
ATOM	2087	LPD2	MET	225	9.733	-3.597	5.125	1.00	0.00
ATOM	2088	LPD1	MET	225	10.536	-3.373	4.394	1.00	0.00
ATOM	2089	HE3	MET	225	13.534	-6.649	6.130	1.00	0.03
ATOM	2090	HE2	MET	225	14.473	-5.214	5.604	1.00	0.03
ATOM	2091	HE1	MET	225	14.539	-6.730	4.644	1.00	0.03
ATOM	2092	N	PHE	226	8.242	-6.941	0.713	1.00	-0.26
ATOM	2093	CA	PHE	226	6.861	-6.871	0.237	1.00	0.14
ATOM	2094	C	PHE	226	6.381	-8.171	-0.379	1.00	0.21
ATOM	2095	O	PHE	226	5.184	-8.269	-0.605	1.00	-0.39
ATOM	2096	CB	PHE	226	6.596	-5.727	-0.787	1.00	0.02
ATOM	2097	CG	PHE	226	6.471	-4.298	-0.224	1.00	-0.04

ATOM	2098	CD1	PHE	226	5.581	-4.010	0.819	1.00	-0.06
ATOM	2099	CD2	PHE	226	7.210	-3.244	-0.776	1.00	-0.06
ATOM	2100	CE1	PHE	226	5.322	-2.688	1.188	1.00	-0.07
ATOM	2101	CE2	PHE	226	7.011	-1.926	-0.353	1.00	-0.07
ATOM	2102	CZ	PHE	226	6.051	-1.641	0.620	1.00	-0.07
ATOM	2103	H	PHE	226	8.919	-6.312	0.324	1.00	0.19
ATOM	2104	HA	PHE	226	6.219	-6.743	1.119	1.00	0.08
ATOM	2105	HB2	PHE	226	5.628	-5.883	-1.280	1.00	0.05
ATOM	2106	HB1	PHE	226	7.358	-5.797	-1.574	1.00	0.05
ATOM	2107	HD1	PHE	226	5.066	-4.800	1.351	1.00	0.06
ATOM	2108	HD2	PHE	226	7.941	-3.438	-1.552	1.00	0.06
ATOM	2109	HE1	PHE	226	4.548	-2.477	1.915	1.00	0.06
ATOM	2110	HE2	PHE	226	7.598	-1.121	-0.781	1.00	0.06
ATOM	2111	HZ	PHE	226	5.871	-0.617	0.931	1.00	0.06
ATOM	2112	N	CYS	227	7.218	-9.194	-0.656	1.00	-0.26
ATOM	2113	CA	CYS	227	6.652	-10.487	-1.040	1.00	0.14
ATOM	2114	C	CYS	227	5.915	-11.125	0.123	1.00	0.20
ATOM	2115	O	CYS	227	4.849	-11.684	-0.089	1.00	-0.39
ATOM	2116	CB	CYS	227	7.758	-11.476	-1.494	1.00	0.03
ATOM	2117	SG	CYS	227	6.987	-13.029	-2.068	1.00	-0.17
ATOM	2118	H	CYS	227	8.214	-9.112	-0.554	1.00	0.19
ATOM	2119	HA	CYS	227	5.949	-10.347	-1.878	1.00	0.08
ATOM	2120	HB2	CYS	227	8.436	-11.702	-0.656	1.00	0.04
ATOM	2121	HB1	CYS	227	8.342	-11.031	-2.316	1.00	0.04
ATOM	2122	LPG2	CYS	227	6.808	-12.153	-3.440	1.00	0.00
ATOM	2123	LPG1	CYS	227	7.056	-12.664	-2.488	1.00	0.00
ATOM	2124	HG	CYS	227	7.828	-13.540	-2.292	1.00	0.10
ATOM	2125	N	VAL	228	6.457	-11.081	1.365	1.00	-0.26
ATOM	2126	CA	VAL	228	5.845	-11.869	2.438	1.00	0.13
ATOM	2127	C	VAL	228	4.362	-11.605	2.645	1.00	0.21
ATOM	2128	O	VAL	228	3.653	-12.594	2.781	1.00	-0.39
ATOM	2129	CB	VAL	228	6.622	-11.991	3.788	1.00	-0.01
ATOM	2130	CG1	VAL	228	8.106	-12.407	3.572	1.00	-0.06
ATOM	2131	CG2	VAL	228	6.539	-10.723	4.678	1.00	-0.06
ATOM	2132	HB	VAL	228	6.142	-12.803	4.367	1.00	0.03
ATOM	2133	HG23	VAL	228	6.956	-9.854	4.152	1.00	0.02
ATOM	2134	HG22	VAL	228	5.495	-10.519	4.960	1.00	0.02
ATOM	2135	HG21	VAL	228	7.112	-10.870	5.607	1.00	0.02
ATOM	2136	HG13	VAL	228	8.171	-13.298	2.928	1.00	0.02
ATOM	2137	HG12	VAL	228	8.576	-12.652	4.538	1.00	0.02
ATOM	2138	HG11	VAL	228	8.690	-11.597	3.111	1.00	0.02
ATOM	2139	H	VAL	228	7.279	-10.535	1.552	1.00	0.19
ATOM	2140	HA	VAL	228	5.888	-12.894	2.038	1.00	0.08
ATOM	2141	N	PRO	229	3.780	-10.374	2.674	1.00	-0.25
ATOM	2142	CA	PRO	229	2.336	-10.291	2.800	1.00	0.13
ATOM	2143	C	PRO	229	1.639	-10.971	1.645	1.00	0.20
ATOM	2144	O	PRO	229	0.519	-11.399	1.855	1.00	-0.39
ATOM	2145	CB	PRO	229	2.115	-8.758	2.801	1.00	-0.01
ATOM	2146	CG	PRO	229	3.340	-8.215	2.035	1.00	-0.03
ATOM	2147	CD	PRO	229	4.494	-9.110	2.546	1.00	0.04
ATOM	2148	HA	PRO	229	1.992	-10.720	3.754	1.00	0.08
ATOM	2149	HB2	PRO	229	2.158	-8.376	3.835	1.00	0.03
ATOM	2150	HB1	PRO	229	1.154	-8.457	2.353	1.00	0.03
ATOM	2151	HG1	PRO	229	3.182	-8.383	0.958	1.00	0.03
ATOM	2152	HG2	PRO	229	3.519	-7.140	2.202	1.00	0.03
ATOM	2153	HD1	PRO	229	5.320	-9.089	1.837	1.00	0.05
ATOM	2154	HD2	PRO	229	4.829	-8.737	3.525	1.00	0.05
ATOM	2155	N	LEU	230	2.207	-11.121	0.426	1.00	-0.26

ATOM	2156	CA	LEU	230	1.428	-11.762	-0.638	1.00	0.13
ATOM	2157	C	LEU	230	1.348	-13.246	-0.389	1.00	0.20
ATOM	2158	O	LEU	230	0.246	-13.764	-0.310	1.00	-0.39
ATOM	2159	CB	LEU	230	1.950	-11.496	-2.078	1.00	-0.01
ATOM	2160	CG	LEU	230	1.391	-10.168	-2.665	1.00	-0.04
ATOM	2161	CD1	LEU	230	1.726	-8.965	-1.743	1.00	-0.06
ATOM	2162	CD2	LEU	230	1.942	-9.946	-4.101	1.00	-0.06
ATOM	2163	HB2	LEU	230	3.051	-11.500	-2.090	1.00	0.03
ATOM	2164	HB1	LEU	230	1.607	-12.312	-2.736	1.00	0.03
ATOM	2165	HG	LEU	230	0.291	-10.245	-2.742	1.00	0.03
ATOM	2166	HD13	LEU	230	1.277	-9.072	-0.746	1.00	0.02
ATOM	2167	HD12	LEU	230	1.325	-8.039	-2.170	1.00	0.02
ATOM	2168	HD11	LEU	230	2.817	-8.873	-1.635	1.00	0.02
ATOM	2169	HD23	LEU	230	3.030	-9.784	-4.076	1.00	0.02
ATOM	2170	HD22	LEU	230	1.464	-9.074	-4.570	1.00	0.02
ATOM	2171	HD21	LEU	230	1.733	-10.822	-4.736	1.00	0.02
ATOM	2172	H	LEU	230	3.161	-10.860	0.251	1.00	0.19
ATOM	2173	HA	LEU	230	0.387	-11.400	-0.604	1.00	0.08
ATOM	2174	N	VAL	231	2.475	-13.977	-0.265	1.00	-0.26
ATOM	2175	CA	VAL	231	2.332	-15.413	-0.016	1.00	0.13
ATOM	2176	C	VAL	231	1.531	-15.607	1.255	1.00	0.20
ATOM	2177	O	VAL	231	0.729	-16.526	1.317	1.00	-0.39
ATOM	2178	CB	VAL	231	3.653	-16.238	0.008	1.00	-0.01
ATOM	2179	CG1	VAL	231	4.386	-16.158	-1.361	1.00	-0.06
ATOM	2180	CG2	VAL	231	4.604	-15.822	1.161	1.00	-0.06
ATOM	2181	HB	VAL	231	3.377	-17.296	0.176	1.00	0.03
ATOM	2182	HG23	VAL	231	4.930	-14.785	1.025	1.00	0.02
ATOM	2183	HG22	VAL	231	5.499	-16.465	1.168	1.00	0.02
ATOM	2184	HG21	VAL	231	4.111	-15.916	2.140	1.00	0.02
ATOM	2185	HG13	VAL	231	3.725	-16.493	-2.175	1.00	0.02
ATOM	2186	HG12	VAL	231	5.277	-16.805	-1.356	1.00	0.02
ATOM	2187	HG11	VAL	231	4.710	-15.129	-1.578	1.00	0.02
ATOM	2188	H	VAL	231	3.375	-13.538	-0.305	1.00	0.19
ATOM	2189	HA	VAL	231	1.716	-15.827	-0.833	1.00	0.08
ATOM	2190	N	LEU	232	1.702	-14.748	2.284	1.00	-0.26
ATOM	2191	CA	LEU	232	0.857	-14.887	3.471	1.00	0.13
ATOM	2192	C	LEU	232	-0.586	-14.582	3.146	1.00	0.20
ATOM	2193	O	LEU	232	-1.446	-15.330	3.578	1.00	-0.39
ATOM	2194	CB	LEU	232	1.371	-13.976	4.618	1.00	-0.01
ATOM	2195	CG	LEU	232	0.472	-13.963	5.894	1.00	-0.04
ATOM	2196	CD1	LEU	232	1.356	-13.681	7.137	1.00	-0.06
ATOM	2197	CD2	LEU	232	-0.646	-12.879	5.823	1.00	-0.06
ATOM	2198	HB2	LEU	232	2.385	-14.335	4.859	1.00	0.03
ATOM	2199	HB1	LEU	232	1.466	-12.949	4.248	1.00	0.03
ATOM	2200	HG	LEU	232	0.006	-14.955	6.034	1.00	0.03
ATOM	2201	HD13	LEU	232	2.101	-14.479	7.284	1.00	0.02
ATOM	2202	HD12	LEU	232	0.741	-13.621	8.046	1.00	0.02
ATOM	2203	HD11	LEU	232	1.884	-12.727	6.999	1.00	0.02
ATOM	2204	HD23	LEU	232	-0.209	-11.879	5.675	1.00	0.02
ATOM	2205	HD22	LEU	232	-1.224	-12.857	6.756	1.00	0.02
ATOM	2206	HD21	LEU	232	-1.359	-13.067	5.014	1.00	0.02
ATOM	2207	H	LEU	232	2.365	-13.990	2.237	1.00	0.19
ATOM	2208	HA	LEU	232	0.907	-15.932	3.824	1.00	0.08
ATOM	2209	N	ILE	233	-0.910	-13.499	2.409	1.00	-0.26
ATOM	2210	CA	ILE	233	-2.315	-13.207	2.112	1.00	0.13
ATOM	2211	C	ILE	233	-2.883	-14.304	1.238	1.00	0.20
ATOM	2212	O	ILE	233	-3.994	-14.753	1.475	1.00	-0.39
ATOM	2213	CB	ILE	233	-2.509	-11.791	1.486	1.00	0.00

ATOM	2214	CG1	ILE	233	-2.286	-10.689	2.572	1.00	-0.05
ATOM	2215	CG2	ILE	233	-3.920	-11.652	0.851	1.00	-0.06
ATOM	2216	CD1	ILE	233	-2.005	-9.285	1.970	1.00	-0.06
ATOM	2217	H	ILE	233	-0.193	-12.902	2.042	1.00	0.19
ATOM	2218	HA	ILE	233	-2.887	-13.221	3.051	1.00	0.08
ATOM	2219	HB	ILE	233	-1.777	-11.680	0.670	1.00	0.03
ATOM	2220	HG12	ILE	233	-1.431	-10.955	3.212	1.00	0.03
ATOM	2221	HG11	ILE	233	-3.168	-10.633	3.231	1.00	0.03
ATOM	2222	HG23	ILE	233	-4.059	-12.377	0.034	1.00	0.02
ATOM	2223	HG22	ILE	233	-4.077	-10.650	0.426	1.00	0.02
ATOM	2224	HG21	ILE	233	-4.682	-11.831	1.623	1.00	0.02
ATOM	2225	HD13	ILE	233	-1.158	-9.331	1.267	1.00	0.02
ATOM	2226	HD12	ILE	233	-1.746	-8.576	2.772	1.00	0.02
ATOM	2227	HD11	ILE	233	-2.881	-8.888	1.438	1.00	0.02
ATOM	2228	N	LEU	234	-2.153	-14.781	0.211	1.00	-0.26
ATOM	2229	CA	LEU	234	-2.671	-15.909	-0.560	1.00	0.13
ATOM	2230	C	LEU	234	-2.796	-17.095	0.374	1.00	0.20
ATOM	2231	O	LEU	234	-3.783	-17.813	0.310	1.00	-0.39
ATOM	2232	CB	LEU	234	-1.781	-16.255	-1.784	1.00	-0.01
ATOM	2233	CG	LEU	234	-1.637	-15.103	-2.829	1.00	-0.04
ATOM	2234	CD1	LEU	234	-0.707	-15.563	-3.986	1.00	-0.06
ATOM	2235	CD2	LEU	234	-3.005	-14.634	-3.401	1.00	-0.06
ATOM	2236	H	LEU	234	-1.234	-14.424	0.027	1.00	0.19
ATOM	2237	HA	LEU	234	-3.689	-15.675	-0.907	1.00	0.08
ATOM	2238	HB2	LEU	234	-2.210	-17.139	-2.284	1.00	0.03
ATOM	2239	HB1	LEU	234	-0.783	-16.532	-1.407	1.00	0.03
ATOM	2240	HG	LEU	234	-1.158	-14.226	-2.363	1.00	0.03
ATOM	2241	HD13	LEU	234	0.276	-15.867	-3.593	1.00	0.02
ATOM	2242	HD12	LEU	234	-0.547	-14.746	-4.707	1.00	0.02
ATOM	2243	HD11	LEU	234	-1.152	-16.417	-4.520	1.00	0.02
ATOM	2244	HD23	LEU	234	-3.582	-15.493	-3.775	1.00	0.02
ATOM	2245	HD22	LEU	234	-2.853	-13.929	-4.232	1.00	0.02
ATOM	2246	HD21	LEU	234	-3.598	-14.109	-2.636	1.00	0.02
ATOM	2247	N	GLY	235	-1.824	-17.320	1.284	1.00	-0.27
ATOM	2248	CA	GLY	235	-2.018	-18.355	2.296	1.00	0.12
ATOM	2249	C	GLY	235	-3.283	-18.094	3.080	1.00	0.20
ATOM	2250	O	GLY	235	-4.061	-19.014	3.274	1.00	-0.39
ATOM	2251	H	GLY	235	-0.984	-16.765	1.315	1.00	0.19
ATOM	2252	HA1	GLY	235	-2.081	-19.340	1.807	1.00	0.08
ATOM	2253	HA2	GLY	235	-1.181	-18.377	3.011	1.00	0.08
ATOM	2254	N	CYS	236	-3.518	-16.847	3.542	1.00	-0.26
ATOM	2255	CA	CYS	236	-4.756	-16.535	4.253	1.00	0.14
ATOM	2256	C	CYS	236	-5.927	-16.896	3.374	1.00	0.20
ATOM	2257	O	CYS	236	-6.868	-17.500	3.861	1.00	-0.39
ATOM	2258	CB	CYS	236	-4.863	-15.030	4.619	1.00	0.03
ATOM	2259	SG	CYS	236	-6.434	-14.681	5.476	1.00	-0.17
ATOM	2260	H	CYS	236	-2.857	-16.116	3.373	1.00	0.19
ATOM	2261	HA	CYS	236	-4.797	-17.128	5.181	1.00	0.08
ATOM	2262	HB2	CYS	236	-4.863	-14.416	3.710	1.00	0.04
ATOM	2263	HB1	CYS	236	-4.013	-14.732	5.253	1.00	0.04
ATOM	2264	LPG2	CYS	236	-5.753	-16.216	6.556	1.00	0.00
ATOM	2265	LPG1	CYS	236	-6.459	-15.788	5.815	1.00	0.00
ATOM	2266	HG	CYS	236	-6.337	-13.681	5.562	1.00	0.10
ATOM	2267	N	TYR	237	-5.899	-16.553	2.070	1.00	-0.26
ATOM	2268	CA	TYR	237	-7.000	-16.968	1.204	1.00	0.14
ATOM	2269	C	TYR	237	-7.104	-18.478	1.228	1.00	0.21
ATOM	2270	O	TYR	237	-8.198	-19.008	1.351	1.00	-0.39
ATOM	2271	CB	TYR	237	-6.833	-16.456	-0.252	1.00	0.02