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REMARK  AYEdes_model: redesign of 1AYE.PDB
REMARK  RosettaDesign model for redesigned procarboxypeptidase A
ATOM    1  N   LYS    1    12.548 -15.304  3.221  1.00  0.00
ATOM    2  CA  LYS    1    13.304 -14.095  3.578  1.00  0.00
ATOM    3  C   LYS    1    14.451 -14.452  4.511  1.00  0.00
ATOM    4  O   LYS    1    14.290 -15.250  5.446  1.00  0.00
ATOM    5  CB  LYS    1    12.383 -13.059  4.225  1.00  0.00
ATOM    6  CG  LYS    1    11.280 -12.541  3.312  1.00  0.00
ATOM    7  CD  LYS    1    10.418 -11.505  4.019  1.00  0.00
ATOM    8  CE  LYS    1     9.318 -10.983  3.106  1.00  0.00
ATOM    9  NZ  LYS    1     8.452  -9.986  3.791  1.00  0.00
ATOM   10  H   LYS    1    12.034 -16.126  2.978  1.00  0.00
ATOM   11 1HZ  LYS    1     7.737  -9.666  3.153  1.00  0.00
ATOM   12 2HZ  LYS    1     8.018 -10.414  4.597  1.00  0.00
ATOM   13 3HZ  LYS    1     9.014  -9.201  4.089  1.00  0.00
ATOM   14  HA  LYS    1    13.745 -13.657  2.682  1.00  0.00
ATOM   15 1HB  LYS    1    11.937 -13.531  5.101  1.00  0.00
ATOM   16 2HB  LYS    1    13.011 -12.226  4.543  1.00  0.00
ATOM   17 1HG  LYS    1    11.742 -12.092  2.432  1.00  0.00
ATOM   18 2HG  LYS    1    10.660 -13.383  3.006  1.00  0.00
ATOM   19 1HD  LYS    1     9.971 -11.968  4.900  1.00  0.00
ATOM   20 2HD  LYS    1    11.055 -10.677  4.329  1.00  0.00
ATOM   21 1HE  LYS    1     9.785 -10.521  2.237  1.00  0.00
ATOM   22 2HE  LYS    1     8.711 -11.829  2.784  1.00  0.00
ATOM   23  N   THR    2    15.605 -13.849  4.261  1.00  0.00
ATOM   24  CA  THR    2    16.778 -14.110  5.082  1.00  0.00
ATOM   25  C   THR    2    17.286 -12.869  5.764  1.00  0.00
ATOM   26  O   THR    2    17.207 -11.778  5.208  1.00  0.00
ATOM   27  CB  THR    2    17.926 -14.714  4.252  1.00  0.00
ATOM   28  OG1 THR    2    17.498 -15.953  3.671  1.00  0.00
ATOM   29  CG2 THR    2    19.144 -14.963  5.128  1.00  0.00
ATOM   30  H   THR    2    15.671 -13.200  3.490  1.00  0.00
ATOM   31  HG1 THR    2    17.252 -16.565  4.369  1.00  0.00
ATOM   32  HA  THR    2    16.521 -14.806  5.881  1.00  0.00
ATOM   33  HB  THR    2    18.189 -14.020  3.454  1.00  0.00
ATOM   34 1HG2 THR    2    19.944 -15.389  4.524  1.00  0.00
ATOM   35 2HG2 THR    2    19.478 -14.021  5.562  1.00  0.00
ATOM   36 3HG2 THR    2    18.882 -15.657  5.925  1.00  0.00
ATOM   37  N   ILE    3    17.794 -13.032  6.980  1.00  0.00
ATOM   38  CA  ILE    3    18.331 -11.901  7.715  1.00  0.00
ATOM   39  C   ILE    3    19.841 -12.139  7.683  1.00  0.00
ATOM   40  O   ILE    3    20.331 -13.188  8.125  1.00  0.00
ATOM   41  CB  ILE    3    17.758 -11.831  9.142  1.00  0.00
ATOM   42  CG1 ILE    3    16.265 -11.492  9.102  1.00  0.00
ATOM   43  CG2 ILE    3    18.517 -10.807  9.971  1.00  0.00
ATOM   44  CD1 ILE    3    15.571 -11.632 10.437  1.00  0.00
ATOM   45  H   ILE    3    17.807 -13.952  7.398  1.00  0.00
ATOM   46  HA  ILE    3    18.119 -10.969  7.193  1.00  0.00
ATOM   47  HB  ILE    3    17.845 -12.812  9.608  1.00  0.00
ATOM   48 1HG2 ILE    3    18.098 -10.770 10.976  1.00  0.00
ATOM   49 2HG2 ILE    3    19.567 -11.090 10.026  1.00  0.00
ATOM   50 3HG2 ILE    3    18.430  -9.825  9.506  1.00  0.00
ATOM   51 1HG1 ILE    3    16.175 -10.464  8.752  1.00  0.00
ATOM   52 2HG1 ILE    3    15.800 -12.163  8.379  1.00  0.00
ATOM   53 1HD1 ILE    3    14.517 -11.376 10.329  1.00  0.00
ATOM   54 2HD1 ILE    3    15.659 -12.661 10.788  1.00  0.00
ATOM   55 3HD1 ILE    3    16.033 -10.962 11.160  1.00  0.00

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ATOM	56	N	PHE	4	20.562	-11.190	7.090	1.00	0.00
ATOM	57	CA	PHE	4	22.013	-11.275	6.971	1.00	0.00
ATOM	58	C	PHE	4	22.732	-10.345	7.921	1.00	0.00
ATOM	59	O	PHE	4	22.249	-9.256	8.226	1.00	0.00
ATOM	60	CB	PHE	4	22.450	-10.970	5.537	1.00	0.00
ATOM	61	CG	PHE	4	21.787	-11.836	4.504	1.00	0.00
ATOM	62	CD1	PHE	4	20.556	-11.484	3.970	1.00	0.00
ATOM	63	CD2	PHE	4	22.391	-13.004	4.065	1.00	0.00
ATOM	64	CE1	PHE	4	19.945	-12.279	3.020	1.00	0.00
ATOM	65	CE2	PHE	4	21.783	-13.800	3.114	1.00	0.00
ATOM	66	CZ	PHE	4	20.558	-13.437	2.591	1.00	0.00
ATOM	67	H	PHE	4	20.088	-10.383	6.709	1.00	0.00
ATOM	68	HD1	PHE	4	20.072	-10.567	4.308	1.00	0.00
ATOM	69	HE1	PHE	4	22.269	-14.715	2.776	1.00	0.00
ATOM	70	HZ	PHE	4	20.077	-14.066	1.843	1.00	0.00
ATOM	71	HE2	PHE	4	22.269	-14.715	2.776	1.00	0.00
ATOM	72	HD2	PHE	4	23.359	-13.290	4.478	1.00	0.00
ATOM	73	HA	PHE	4	22.347	-12.280	7.231	1.00	0.00
ATOM	74	1HB	PHE	4	22.207	-9.939	5.282	1.00	0.00
ATOM	75	2HB	PHE	4	23.523	-11.126	5.432	1.00	0.00
ATOM	76	N	VAL	5	23.862	-10.804	8.433	1.00	0.00
ATOM	77	CA	VAL	5	24.652	-9.993	9.336	1.00	0.00
ATOM	78	C	VAL	5	25.805	-9.563	8.447	1.00	0.00
ATOM	79	O	VAL	5	26.504	-10.397	7.864	1.00	0.00
ATOM	80	CB	VAL	5	25.085	-10.791	10.580	1.00	0.00
ATOM	81	CG1	VAL	5	26.143	-10.026	11.362	1.00	0.00
ATOM	82	CG2	VAL	5	23.885	-11.092	11.465	1.00	0.00
ATOM	83	H	VAL	5	24.178	-11.732	8.191	1.00	0.00
ATOM	84	HA	VAL	5	24.100	-9.111	9.663	1.00	0.00
ATOM	85	HB	VAL	5	25.492	-11.751	10.261	1.00	0.00
ATOM	86	1HG1	VAL	5	26.438	-10.605	12.238	1.00	0.00
ATOM	87	2HG1	VAL	5	27.014	-9.859	10.728	1.00	0.00
ATOM	88	3HG1	VAL	5	25.736	-9.067	11.682	1.00	0.00
ATOM	89	1HG2	VAL	5	24.209	-11.657	12.339	1.00	0.00
ATOM	90	2HG2	VAL	5	23.427	-10.156	11.786	1.00	0.00
ATOM	91	3HG2	VAL	5	23.157	-11.679	10.904	1.00	0.00
ATOM	92	N	ILE	6	25.984	-8.262	8.331	1.00	0.00
ATOM	93	CA	ILE	6	27.032	-7.710	7.507	1.00	0.00
ATOM	94	C	ILE	6	28.010	-6.961	8.387	1.00	0.00
ATOM	95	O	ILE	6	27.615	-6.359	9.380	1.00	0.00
ATOM	96	CB	ILE	6	26.465	-6.775	6.423	1.00	0.00
ATOM	97	CG1	ILE	6	25.526	-7.545	5.491	1.00	0.00
ATOM	98	CG2	ILE	6	27.594	-6.131	5.633	1.00	0.00
ATOM	99	CD1	ILE	6	24.745	-6.662	4.545	1.00	0.00
ATOM	100	H	ILE	6	25.371	-7.635	8.832	1.00	0.00
ATOM	101	HA	ILE	6	27.608	-8.505	7.035	1.00	0.00
ATOM	102	HB	ILE	6	25.867	-6.000	6.900	1.00	0.00
ATOM	103	1HG2	ILE	6	27.176	-5.474	4.871	1.00	0.00
ATOM	104	2HG2	ILE	6	28.224	-5.551	6.306	1.00	0.00
ATOM	105	3HG2	ILE	6	28.192	-6.907	5.154	1.00	0.00
ATOM	106	1HG1	ILE	6	26.137	-8.241	4.917	1.00	0.00
ATOM	107	2HG1	ILE	6	24.833	-8.105	6.120	1.00	0.00
ATOM	108	1HD1	ILE	6	24.102	-7.279	3.917	1.00	0.00
ATOM	109	2HD1	ILE	6	24.132	-5.966	5.118	1.00	0.00
ATOM	110	3HD1	ILE	6	25.435	-6.103	3.915	1.00	0.00
ATOM	111	N	VAL	7	29.290	-7.015	8.036	1.00	0.00
ATOM	112	CA	VAL	7	30.317	-6.332	8.807	1.00	0.00

ATOM	113	C	VAL	7	31.213	-5.481	7.909	1.00	0.00
ATOM	114	O	VAL	7	32.223	-5.968	7.402	1.00	0.00
ATOM	115	CB	VAL	7	31.193	-7.329	9.589	1.00	0.00
ATOM	116	CG1	VAL	7	32.239	-6.588	10.410	1.00	0.00
ATOM	117	CG2	VAL	7	30.332	-8.202	10.490	1.00	0.00
ATOM	118	H	VAL	7	29.556	-7.542	7.216	1.00	0.00
ATOM	119	HA	VAL	7	29.879	-5.625	9.513	1.00	0.00
ATOM	120	HB	VAL	7	31.690	-7.994	8.882	1.00	0.00
ATOM	121	1HG1	VAL	7	32.850	-7.307	10.956	1.00	0.00
ATOM	122	2HG1	VAL	7	32.875	-6.003	9.746	1.00	0.00
ATOM	123	3HG1	VAL	7	31.743	-5.924	11.117	1.00	0.00
ATOM	124	1HG2	VAL	7	30.966	-8.901	11.034	1.00	0.00
ATOM	125	2HG2	VAL	7	29.793	-7.572	11.198	1.00	0.00
ATOM	126	3HG2	VAL	7	29.618	-8.759	9.883	1.00	0.00
ATOM	127	N	PRO	8	30.822	-4.221	7.650	1.00	0.00
ATOM	128	CA	PRO	8	31.645	-3.348	6.806	1.00	0.00
ATOM	129	C	PRO	8	32.973	-3.103	7.545	1.00	0.00
ATOM	130	O	PRO	8	32.998	-2.993	8.782	1.00	0.00
ATOM	131	CB	PRO	8	30.897	-2.048	6.559	1.00	0.00
ATOM	132	CG	PRO	8	29.955	-1.910	7.726	1.00	0.00
ATOM	133	CD	PRO	8	29.555	-3.565	7.980	1.00	0.00
ATOM	134	1HD	PRO	8	29.408	-3.791	8.894	1.00	0.00
ATOM	135	2HD	PRO	8	28.955	-3.922	7.333	1.00	0.00
ATOM	136	1HG	PRO	8	30.408	-1.726	8.417	1.00	0.00
ATOM	137	2HG	PRO	8	29.146	-1.570	7.396	1.00	0.00
ATOM	138	1HB	PRO	8	31.567	-1.439	6.689	1.00	0.00
ATOM	139	2HB	PRO	8	30.424	-2.257	5.864	1.00	0.00
ATOM	140	HA	PRO	8	31.816	-3.784	5.927	1.00	0.00
ATOM	141	N	THR	9	34.078	-3.059	6.809	1.00	0.00
ATOM	142	CA	THR	9	35.380	-2.841	7.431	1.00	0.00
ATOM	143	C	THR	9	35.996	-1.468	7.194	1.00	0.00
ATOM	144	O	THR	9	37.013	-1.121	7.796	1.00	0.00
ATOM	145	CB	THR	9	36.414	-3.878	6.956	1.00	0.00
ATOM	146	OG1	THR	9	36.568	-3.787	5.533	1.00	0.00
ATOM	147	CG2	THR	9	35.967	-5.285	7.324	1.00	0.00
ATOM	148	H	THR	9	34.016	-3.178	5.808	1.00	0.00
ATOM	149	HG1	THR	9	37.214	-4.436	5.240	1.00	0.00
ATOM	150	HA	THR	9	35.287	-2.912	8.515	1.00	0.00
ATOM	151	HB	THR	9	37.372	-3.666	7.430	1.00	0.00
ATOM	152	1HG2	THR	9	36.711	-6.003	6.980	1.00	0.00
ATOM	153	2HG2	THR	9	35.860	-5.361	8.406	1.00	0.00
ATOM	154	3HG2	THR	9	35.010	-5.498	6.849	1.00	0.00
ATOM	155	N	ASN	10	35.373	-0.674	6.337	1.00	0.00
ATOM	156	CA	ASN	10	35.882	0.654	6.051	1.00	0.00
ATOM	157	C	ASN	10	34.763	1.632	5.702	1.00	0.00
ATOM	158	O	ASN	10	33.600	1.250	5.545	1.00	0.00
ATOM	159	CB	ASN	10	36.844	0.596	4.869	1.00	0.00
ATOM	160	CG	ASN	10	36.145	0.089	3.617	1.00	0.00
ATOM	161	OD1	ASN	10	35.266	0.759	3.077	1.00	0.00
ATOM	162	ND2	ASN	10	36.536	-1.101	3.155	1.00	0.00
ATOM	163	H	ASN	10	34.534	-0.997	5.877	1.00	0.00
ATOM	164	1HD2	ASN	10	36.110	-1.482	2.334	1.00	0.00
ATOM	165	2HD2	ASN	10	37.255	-1.609	3.628	1.00	0.00
ATOM	166	HA	ASN	10	36.373	1.061	6.936	1.00	0.00
ATOM	167	1HB	ASN	10	37.497	1.439	4.639	1.00	0.00
ATOM	168	2HB	ASN	10	37.432	-0.211	5.306	1.00	0.00
ATOM	169	N	GLU	11	35.141	2.887	5.514	1.00	0.00

ATOM	170	CA	GLU	11	34.198	3.938	5.189	1.00	0.00
ATOM	171	C	GLU	11	33.384	3.731	3.915	1.00	0.00
ATOM	172	O	GLU	11	32.183	4.015	3.898	1.00	0.00
ATOM	173	CB	GLU	11	34.917	5.283	5.063	1.00	0.00
ATOM	174	CG	GLU	11	35.438	5.843	6.379	1.00	0.00
ATOM	175	CD	GLU	11	36.154	7.149	6.172	1.00	0.00
ATOM	176	OE1	GLU	11	36.265	7.571	5.046	1.00	0.00
ATOM	177	OE2	GLU	11	36.491	7.780	7.146	1.00	0.00
ATOM	178	H	GLU	11	36.120	3.120	5.600	1.00	0.00
ATOM	179	HA	GLU	11	33.447	4.017	5.976	1.00	0.00
ATOM	180	1HB	GLU	11	35.751	5.135	4.377	1.00	0.00
ATOM	181	2HB	GLU	11	34.206	5.985	4.626	1.00	0.00
ATOM	182	1HG	GLU	11	34.662	5.971	7.133	1.00	0.00
ATOM	183	2HG	GLU	11	36.149	5.089	6.715	1.00	0.00
ATOM	184	N	GLU	12	34.024	3.235	2.857	1.00	0.00
ATOM	185	CA	GLU	12	33.330	3.014	1.591	1.00	0.00
ATOM	186	C	GLU	12	32.258	1.939	1.650	1.00	0.00
ATOM	187	O	GLU	12	31.179	2.103	1.081	1.00	0.00
ATOM	188	CB	GLU	12	34.327	2.645	0.491	1.00	0.00
ATOM	189	CG	GLU	12	35.242	3.784	0.063	1.00	0.00
ATOM	190	CD	GLU	12	36.209	3.339	-0.999	1.00	0.00
ATOM	191	OE1	GLU	12	36.183	2.185	-1.353	1.00	0.00
ATOM	192	OE2	GLU	12	36.896	4.176	-1.537	1.00	0.00
ATOM	193	H	GLU	12	35.005	3.008	2.932	1.00	0.00
ATOM	194	HA	GLU	12	32.804	3.922	1.294	1.00	0.00
ATOM	195	1HB	GLU	12	34.929	1.820	0.871	1.00	0.00
ATOM	196	2HB	GLU	12	33.745	2.306	-0.366	1.00	0.00
ATOM	197	1HG	GLU	12	34.704	4.666	-0.284	1.00	0.00
ATOM	198	2HG	GLU	12	35.789	4.029	0.972	1.00	0.00
ATOM	199	N	GLN	13	32.533	0.848	2.352	1.00	0.00
ATOM	200	CA	GLN	13	31.553	-0.214	2.456	1.00	0.00
ATOM	201	C	GLN	13	30.327	0.338	3.197	1.00	0.00
ATOM	202	O	GLN	13	29.189	0.030	2.846	1.00	0.00
ATOM	203	CB	GLN	13	32.142	-1.391	3.227	1.00	0.00
ATOM	204	CG	GLN	13	33.208	-2.073	2.378	1.00	0.00
ATOM	205	CD	GLN	13	33.641	-3.394	2.999	1.00	0.00
ATOM	206	OE1	GLN	13	33.145	-3.778	4.056	1.00	0.00
ATOM	207	NE2	GLN	13	34.570	-4.089	2.339	1.00	0.00
ATOM	208	H	GLN	13	33.426	0.757	2.814	1.00	0.00
ATOM	209	1HE2	GLN	13	34.892	-4.964	2.702	1.00	0.00
ATOM	210	2HE2	GLN	13	34.944	-3.735	1.482	1.00	0.00
ATOM	211	HA	GLN	13	31.236	-0.517	1.458	1.00	0.00
ATOM	212	1HB	GLN	13	32.552	-0.987	4.153	1.00	0.00
ATOM	213	2HB	GLN	13	31.314	-2.061	3.459	1.00	0.00
ATOM	214	1HG	GLN	13	33.109	-2.205	1.301	1.00	0.00
ATOM	215	2HG	GLN	13	33.973	-1.323	2.581	1.00	0.00
ATOM	216	N	VAL	14	30.560	1.211	4.175	1.00	0.00
ATOM	217	CA	VAL	14	29.463	1.803	4.934	1.00	0.00
ATOM	218	C	VAL	14	28.625	2.690	4.021	1.00	0.00
ATOM	219	O	VAL	14	27.393	2.647	4.052	1.00	0.00
ATOM	220	CB	VAL	14	29.981	2.624	6.130	1.00	0.00
ATOM	221	CG1	VAL	14	28.838	3.373	6.798	1.00	0.00
ATOM	222	CG2	VAL	14	30.682	1.720	7.133	1.00	0.00
ATOM	223	H	VAL	14	31.512	1.468	4.395	1.00	0.00
ATOM	224	HA	VAL	14	28.781	1.038	5.307	1.00	0.00
ATOM	225	HB	VAL	14	30.724	3.338	5.774	1.00	0.00
ATOM	226	1HG1	VAL	14	29.223	3.948	7.641	1.00	0.00

ATOM	227	2HG1	VAL	14	28.377	4.049	6.079	1.00	0.00
ATOM	228	3HG1	VAL	14	28.095	2.660	7.155	1.00	0.00
ATOM	229	1HG2	VAL	14	31.042	2.316	7.971	1.00	0.00
ATOM	230	2HG2	VAL	14	29.981	0.969	7.496	1.00	0.00
ATOM	231	3HG2	VAL	14	31.526	1.226	6.651	1.00	0.00
ATOM	232	N	ALA	15	29.300	3.507	3.219	1.00	0.00
ATOM	233	CA	ALA	15	28.613	4.399	2.302	1.00	0.00
ATOM	234	C	ALA	15	27.731	3.560	1.369	1.00	0.00
ATOM	235	O	ALA	15	26.602	3.955	1.046	1.00	0.00
ATOM	236	CB	ALA	15	29.618	5.240	1.528	1.00	0.00
ATOM	237	H	ALA	15	30.310	3.507	3.248	1.00	0.00
ATOM	238	HA	ALA	15	27.972	5.066	2.878	1.00	0.00
ATOM	239	1HB	ALA	15	29.087	5.903	0.845	1.00	0.00
ATOM	240	2HB	ALA	15	30.209	5.835	2.225	1.00	0.00
ATOM	241	3HB	ALA	15	30.277	4.586	0.959	1.00	0.00
ATOM	242	N	PHE	16	28.240	2.390	0.975	1.00	0.00
ATOM	243	CA	PHE	16	27.517	1.480	0.091	1.00	0.00
ATOM	244	C	PHE	16	26.279	0.912	0.777	1.00	0.00
ATOM	245	O	PHE	16	25.233	0.751	0.154	1.00	0.00
ATOM	246	CB	PHE	16	28.431	0.343	-0.370	1.00	0.00
ATOM	247	CG	PHE	16	27.768	-0.627	-1.305	1.00	0.00
ATOM	248	CD1	PHE	16	27.773	-0.407	-2.674	1.00	0.00
ATOM	249	CD2	PHE	16	27.137	-1.762	-0.817	1.00	0.00
ATOM	250	CE1	PHE	16	27.162	-1.299	-3.535	1.00	0.00
ATOM	251	CE2	PHE	16	26.528	-2.656	-1.676	1.00	0.00
ATOM	252	CZ	PHE	16	26.540	-2.424	-3.036	1.00	0.00
ATOM	253	H	PHE	16	29.159	2.125	1.300	1.00	0.00
ATOM	254	HD1	PHE	16	28.266	0.482	-3.068	1.00	0.00
ATOM	255	HE1	PHE	16	26.037	-3.545	-1.281	1.00	0.00
ATOM	256	HZ	PHE	16	26.058	-3.127	-3.714	1.00	0.00
ATOM	257	HE2	PHE	16	26.037	-3.545	-1.281	1.00	0.00
ATOM	258	HD2	PHE	16	27.127	-1.945	0.258	1.00	0.00
ATOM	259	HA	PHE	16	27.164	2.021	-0.788	1.00	0.00
ATOM	260	1HB	PHE	16	29.293	0.746	-0.899	1.00	0.00
ATOM	261	2HB	PHE	16	28.771	-0.235	0.488	1.00	0.00
ATOM	262	N	LEU	17	26.398	0.584	2.057	1.00	0.00
ATOM	263	CA	LEU	17	25.265	0.036	2.789	1.00	0.00
ATOM	264	C	LEU	17	24.201	1.092	3.059	1.00	0.00
ATOM	265	O	LEU	17	23.011	0.796	3.029	1.00	0.00
ATOM	266	CB	LEU	17	25.718	-0.586	4.116	1.00	0.00
ATOM	267	CG	LEU	17	26.680	-1.773	4.030	1.00	0.00
ATOM	268	CD1	LEU	17	27.166	-2.271	5.382	1.00	0.00
ATOM	269	CD2	LEU	17	26.157	-2.927	3.185	1.00	0.00
ATOM	270	H	LEU	17	27.282	0.716	2.528	1.00	0.00
ATOM	271	HA	LEU	17	24.782	-0.735	2.190	1.00	0.00
ATOM	272	1HB	LEU	17	26.236	0.270	4.545	1.00	0.00
ATOM	273	2HB	LEU	17	24.870	-0.852	4.747	1.00	0.00
ATOM	274	HG	LEU	17	27.535	-1.455	3.432	1.00	0.00
ATOM	275	1HD1	LEU	17	27.844	-3.113	5.238	1.00	0.00
ATOM	276	2HD1	LEU	17	27.692	-1.468	5.898	1.00	0.00
ATOM	277	3HD1	LEU	17	26.313	-2.590	5.980	1.00	0.00
ATOM	278	1HD2	LEU	17	26.894	-3.730	3.171	1.00	0.00
ATOM	279	2HD2	LEU	17	25.224	-3.297	3.611	1.00	0.00
ATOM	280	3HD2	LEU	17	25.979	-2.581	2.167	1.00	0.00
ATOM	281	N	GLU	18	24.628	2.326	3.303	1.00	0.00
ATOM	282	CA	GLU	18	23.697	3.412	3.567	1.00	0.00
ATOM	283	C	GLU	18	22.850	3.700	2.320	1.00	0.00

ATOM	284	O	GLU	18	21.669	4.060	2.418	1.00	0.00
ATOM	285	CB	GLU	18	24.451	4.669	4.008	1.00	0.00
ATOM	286	CG	GLU	18	25.124	4.553	5.369	1.00	0.00
ATOM	287	CD	GLU	18	25.864	5.813	5.721	1.00	0.00
ATOM	288	OE1	GLU	18	25.877	6.716	4.919	1.00	0.00
ATOM	289	OE2	GLU	18	26.322	5.917	6.834	1.00	0.00
ATOM	290	H	GLU	18	25.620	2.514	3.305	1.00	0.00
ATOM	291	HA	GLU	18	23.007	3.123	4.361	1.00	0.00
ATOM	292	1HB	GLU	18	25.205	4.871	3.247	1.00	0.00
ATOM	293	2HB	GLU	18	23.727	5.484	4.029	1.00	0.00
ATOM	294	1HG	GLU	18	24.434	4.301	6.174	1.00	0.00
ATOM	295	2HG	GLU	18	25.836	3.740	5.234	1.00	0.00
ATOM	296	N	ALA	19	23.463	3.531	1.147	1.00	0.00
ATOM	297	CA	ALA	19	22.782	3.755	-0.124	1.00	0.00
ATOM	298	C	ALA	19	21.703	2.696	-0.256	1.00	0.00
ATOM	299	O	ALA	19	20.563	3.015	-0.557	1.00	0.00
ATOM	300	CB	ALA	19	23.779	3.717	-1.273	1.00	0.00
ATOM	301	H	ALA	19	24.430	3.239	1.139	1.00	0.00
ATOM	302	HA	ALA	19	22.315	4.740	-0.101	1.00	0.00
ATOM	303	1HB	ALA	19	23.255	3.886	-2.214	1.00	0.00
ATOM	304	2HB	ALA	19	24.529	4.495	-1.131	1.00	0.00
ATOM	305	3HB	ALA	19	24.266	2.744	-1.300	1.00	0.00
ATOM	306	N	LEU	20	22.071	1.436	-0.036	1.00	0.00
ATOM	307	CA	LEU	20	21.119	0.333	-0.126	1.00	0.00
ATOM	308	C	LEU	20	19.922	0.620	0.781	1.00	0.00
ATOM	309	O	LEU	20	18.771	0.497	0.367	1.00	0.00
ATOM	310	CB	LEU	20	21.783	-0.998	0.252	1.00	0.00
ATOM	311	CG	LEU	20	22.897	-1.500	-0.671	1.00	0.00
ATOM	312	CD1	LEU	20	23.745	-2.607	-0.065	1.00	0.00
ATOM	313	CD2	LEU	20	22.413	-1.889	-2.061	1.00	0.00
ATOM	314	H	LEU	20	23.033	1.238	0.199	1.00	0.00
ATOM	315	HA	LEU	20	20.743	0.257	-1.146	1.00	0.00
ATOM	316	1HB	LEU	20	22.208	-0.717	1.214	1.00	0.00
ATOM	317	2HB	LEU	20	21.048	-1.789	0.397	1.00	0.00
ATOM	318	HG	LEU	20	23.531	-0.645	-0.908	1.00	0.00
ATOM	319	1HD1	LEU	20	24.512	-2.910	-0.778	1.00	0.00
ATOM	320	2HD1	LEU	20	24.221	-2.244	0.846	1.00	0.00
ATOM	321	3HD1	LEU	20	23.112	-3.462	0.171	1.00	0.00
ATOM	322	1HD2	LEU	20	23.259	-2.234	-2.657	1.00	0.00
ATOM	323	2HD2	LEU	20	21.676	-2.688	-1.980	1.00	0.00
ATOM	324	3HD2	LEU	20	21.958	-1.024	-2.544	1.00	0.00
ATOM	325	N	ALA	21	20.210	1.000	2.023	1.00	0.00
ATOM	326	CA	ALA	21	19.175	1.309	2.998	1.00	0.00
ATOM	327	C	ALA	21	18.305	2.446	2.504	1.00	0.00
ATOM	328	O	ALA	21	17.087	2.432	2.702	1.00	0.00
ATOM	329	CB	ALA	21	19.799	1.648	4.344	1.00	0.00
ATOM	330	H	ALA	21	21.179	1.077	2.298	1.00	0.00
ATOM	331	HA	ALA	21	18.538	0.433	3.121	1.00	0.00
ATOM	332	1HB	ALA	21	19.011	1.876	5.062	1.00	0.00
ATOM	333	2HB	ALA	21	20.379	0.797	4.701	1.00	0.00
ATOM	334	3HB	ALA	21	20.451	2.513	4.235	1.00	0.00
ATOM	335	N	LYS	22	18.928	3.438	1.873	1.00	0.00
ATOM	336	CA	LYS	22	18.187	4.581	1.356	1.00	0.00
ATOM	337	C	LYS	22	17.347	4.234	0.123	1.00	0.00
ATOM	338	O	LYS	22	16.374	4.922	-0.156	1.00	0.00
ATOM	339	CB	LYS	22	19.141	5.726	1.011	1.00	0.00
ATOM	340	CG	LYS	22	19.792	6.387	2.218	1.00	0.00

ATOM	341	CD	LYS	22	20.711	7.524	1.797	1.00	0.00
ATOM	342	CE	LYS	22	21.359	8.189	3.003	1.00	0.00
ATOM	343	NZ	LYS	22	22.280	9.288	2.604	1.00	0.00
ATOM	344	H	LYS	22	19.930	3.398	1.751	1.00	0.00
ATOM	345	1HZ	LYS	22	22.688	9.702	3.431	1.00	0.00
ATOM	346	2HZ	LYS	22	23.013	8.918	2.016	1.00	0.00
ATOM	347	3HZ	LYS	22	21.763	9.992	2.096	1.00	0.00
ATOM	348	HA	LYS	22	17.479	4.932	2.107	1.00	0.00
ATOM	349	1HB	LYS	22	19.914	5.313	0.363	1.00	0.00
ATOM	350	2HB	LYS	22	18.564	6.468	0.459	1.00	0.00
ATOM	351	1HG	LYS	22	19.006	6.775	2.866	1.00	0.00
ATOM	352	2HG	LYS	22	20.367	5.635	2.757	1.00	0.00
ATOM	353	1HD	LYS	22	21.486	7.121	1.144	1.00	0.00
ATOM	354	2HD	LYS	22	20.124	8.261	1.249	1.00	0.00
ATOM	355	1HE	LYS	22	20.570	8.589	3.638	1.00	0.00
ATOM	356	2HE	LYS	22	21.916	7.430	3.553	1.00	0.00
ATOM	357	N	GLN	23	17.707	3.170	-0.602	1.00	0.00
ATOM	358	CA	GLN	23	16.970	2.745	-1.802	1.00	0.00
ATOM	359	C	GLN	23	15.675	2.035	-1.453	1.00	0.00
ATOM	360	O	GLN	23	15.576	0.808	-1.471	1.00	0.00
ATOM	361	CB	GLN	23	17.825	1.788	-2.625	1.00	0.00
ATOM	362	CG	GLN	23	18.938	2.567	-3.318	1.00	0.00
ATOM	363	CD	GLN	23	18.370	3.538	-4.344	1.00	0.00
ATOM	364	OE1	GLN	23	18.645	4.734	-4.289	1.00	0.00
ATOM	365	NE2	GLN	23	17.573	3.019	-5.281	1.00	0.00
ATOM	366	H	GLN	23	18.516	2.638	-0.315	1.00	0.00
ATOM	367	1HE2	GLN	23	17.172	3.612	-5.980	1.00	0.00
ATOM	368	2HE2	GLN	23	17.377	2.038	-5.285	1.00	0.00
ATOM	369	HA	GLN	23	16.687	3.621	-2.386	1.00	0.00
ATOM	370	1HB	GLN	23	18.217	1.042	-1.934	1.00	0.00
ATOM	371	2HB	GLN	23	17.158	1.306	-3.340	1.00	0.00
ATOM	372	1HG	GLN	23	19.741	3.061	-2.771	1.00	0.00
ATOM	373	2HG	GLN	23	19.338	1.698	-3.842	1.00	0.00
ATOM	374	N	ASP	24	14.674	2.844	-1.169	1.00	0.00
ATOM	375	CA	ASP	24	13.347	2.393	-0.808	1.00	0.00
ATOM	376	C	ASP	24	12.743	1.308	-1.709	1.00	0.00
ATOM	377	O	ASP	24	12.108	0.369	-1.224	1.00	0.00
ATOM	378	CB	ASP	24	12.369	3.570	-0.783	1.00	0.00
ATOM	379	CG	ASP	24	12.562	4.524	0.388	1.00	0.00
ATOM	380	OD1	ASP	24	13.293	4.187	1.289	1.00	0.00
ATOM	381	OD2	ASP	24	12.108	5.640	0.300	1.00	0.00
ATOM	382	H	ASP	24	14.843	3.839	-1.206	1.00	0.00
ATOM	383	HA	ASP	24	13.369	1.937	0.182	1.00	0.00
ATOM	384	1HB	ASP	24	12.349	4.138	-1.714	1.00	0.00
ATOM	385	2HB	ASP	24	11.427	3.034	-0.663	1.00	0.00
ATOM	386	N	GLU	25	13.010	1.383	-3.009	1.00	0.00
ATOM	387	CA	GLU	25	12.467	0.400	-3.941	1.00	0.00
ATOM	388	C	GLU	25	13.031	-1.010	-3.893	1.00	0.00
ATOM	389	O	GLU	25	12.450	-1.928	-4.470	1.00	0.00
ATOM	390	CB	GLU	25	12.631	0.882	-5.384	1.00	0.00
ATOM	391	CG	GLU	25	11.857	2.151	-5.715	1.00	0.00
ATOM	392	CD	GLU	25	12.088	2.576	-7.138	1.00	0.00
ATOM	393	OE1	GLU	25	12.846	1.926	-7.817	1.00	0.00
ATOM	394	OE2	GLU	25	11.422	3.482	-7.582	1.00	0.00
ATOM	395	H	GLU	25	13.596	2.129	-3.356	1.00	0.00
ATOM	396	HA	GLU	25	11.405	0.249	-3.743	1.00	0.00
ATOM	397	1HB	GLU	25	13.696	1.055	-5.543	1.00	0.00

ATOM	398	2HB	GLU	25	12.294	0.072	-6.031	1.00	0.00
ATOM	399	1HG	GLU	25	10.786	2.066	-5.532	1.00	0.00
ATOM	400	2HG	GLU	25	12.282	2.893	-5.041	1.00	0.00
ATOM	401	N	LEU	26	14.154	-1.186	-3.203	1.00	0.00
ATOM	402	CA	LEU	26	14.767	-2.502	-3.083	1.00	0.00
ATOM	403	C	LEU	26	14.031	-3.298	-1.995	1.00	0.00
ATOM	404	O	LEU	26	14.189	-4.510	-1.876	1.00	0.00
ATOM	405	CB	LEU	26	16.263	-2.384	-2.763	1.00	0.00
ATOM	406	CG	LEU	26	17.196	-2.067	-3.935	1.00	0.00
ATOM	407	CD1	LEU	26	18.648	-1.863	-3.527	1.00	0.00
ATOM	408	CD2	LEU	26	17.093	-3.057	-5.086	1.00	0.00
ATOM	409	H	LEU	26	14.590	-0.393	-2.754	1.00	0.00
ATOM	410	HA	LEU	26	14.653	-3.045	-4.021	1.00	0.00
ATOM	411	1HB	LEU	26	16.232	-1.534	-2.083	1.00	0.00
ATOM	412	2HB	LEU	26	16.633	-3.261	-2.232	1.00	0.00
ATOM	413	HG	LEU	26	16.822	-1.160	-4.411	1.00	0.00
ATOM	414	1HD1	LEU	26	19.247	-1.642	-4.411	1.00	0.00
ATOM	415	2HD1	LEU	26	18.716	-1.030	-2.827	1.00	0.00
ATOM	416	3HD1	LEU	26	19.023	-2.769	-3.052	1.00	0.00
ATOM	417	1HD2	LEU	26	17.783	-2.766	-5.879	1.00	0.00
ATOM	418	2HD2	LEU	26	17.347	-4.056	-4.731	1.00	0.00
ATOM	419	3HD2	LEU	26	16.075	-3.059	-5.475	1.00	0.00
ATOM	420	N	ASN	27	13.223	-2.600	-1.205	1.00	0.00
ATOM	421	CA	ASN	27	12.449	-3.223	-0.128	1.00	0.00
ATOM	422	C	ASN	27	13.246	-3.994	0.935	1.00	0.00
ATOM	423	O	ASN	27	12.778	-5.021	1.451	1.00	0.00
ATOM	424	CB	ASN	27	11.465	-4.230	-0.713	1.00	0.00
ATOM	425	CG	ASN	27	10.383	-3.532	-1.523	1.00	0.00
ATOM	426	OD1	ASN	27	9.703	-2.640	-1.020	1.00	0.00
ATOM	427	ND2	ASN	27	10.223	-3.941	-2.784	1.00	0.00
ATOM	428	H	ASN	27	13.139	-1.604	-1.352	1.00	0.00
ATOM	429	1HD2	ASN	27	9.526	-3.517	-3.362	1.00	0.00
ATOM	430	2HD2	ASN	27	10.800	-4.671	-3.150	1.00	0.00
ATOM	431	HA	ASN	27	11.928	-2.455	0.446	1.00	0.00
ATOM	432	1HB	ASN	27	11.820	-5.126	-1.223	1.00	0.00
ATOM	433	2HB	ASN	27	11.065	-4.503	0.264	1.00	0.00
ATOM	434	N	PHE	28	14.455	-3.531	1.236	1.00	0.00
ATOM	435	CA	PHE	28	15.275	-4.192	2.245	1.00	0.00
ATOM	436	C	PHE	28	14.734	-3.664	3.584	1.00	0.00
ATOM	437	O	PHE	28	14.174	-2.550	3.646	1.00	0.00
ATOM	438	CB	PHE	28	16.756	-3.883	2.016	1.00	0.00
ATOM	439	CG	PHE	28	17.267	-4.326	0.675	1.00	0.00
ATOM	440	CD1	PHE	28	16.536	-5.211	-0.104	1.00	0.00
ATOM	441	CD2	PHE	28	18.479	-3.859	0.189	1.00	0.00
ATOM	442	CE1	PHE	28	17.006	-5.619	-1.338	1.00	0.00
ATOM	443	CE2	PHE	28	18.950	-4.265	-1.045	1.00	0.00
ATOM	444	CZ	PHE	28	18.212	-5.146	-1.809	1.00	0.00
ATOM	445	H	PHE	28	14.810	-2.713	0.761	1.00	0.00
ATOM	446	HD1	PHE	28	15.582	-5.585	0.267	1.00	0.00
ATOM	447	HE1	PHE	28	19.904	-3.891	-1.415	1.00	0.00
ATOM	448	HZ	PHE	28	18.583	-5.468	-2.781	1.00	0.00
ATOM	449	HE2	PHE	28	19.904	-3.891	-1.415	1.00	0.00
ATOM	450	HD2	PHE	28	19.062	-3.163	0.793	1.00	0.00
ATOM	451	HA	PHE	28	15.132	-5.272	2.189	1.00	0.00
ATOM	452	1HB	PHE	28	16.929	-2.809	2.076	1.00	0.00
ATOM	453	2HB	PHE	28	17.364	-4.390	2.764	1.00	0.00
ATOM	454	N	ASP	29	14.900	-4.454	4.641	1.00	0.00



ATOM	455	CA	ASP	29	14.427	-4.083	5.971	1.00	0.00
ATOM	456	C	ASP	29	15.614	-4.181	6.928	1.00	0.00
ATOM	457	O	ASP	29	16.009	-5.267	7.338	1.00	0.00
ATOM	458	CB	ASP	29	13.269	-4.987	6.400	1.00	0.00
ATOM	459	CG	ASP	29	12.465	-4.461	7.581	1.00	0.00
ATOM	460	OD1	ASP	29	12.812	-3.425	8.098	1.00	0.00
ATOM	461	OD2	ASP	29	11.425	-5.010	7.858	1.00	0.00
ATOM	462	H	ASP	29	15.369	-5.340	4.519	1.00	0.00
ATOM	463	HA	ASP	29	14.078	-3.050	5.964	1.00	0.00
ATOM	464	1HB	ASP	29	12.592	-5.242	5.585	1.00	0.00
ATOM	465	2HB	ASP	29	13.823	-5.876	6.705	1.00	0.00
ATOM	466	N	TRP	30	16.230	-3.047	7.231	1.00	0.00
ATOM	467	CA	TRP	30	17.376	-3.043	8.128	1.00	0.00
ATOM	468	C	TRP	30	16.947	-3.140	9.577	1.00	0.00
ATOM	469	O	TRP	30	16.316	-2.233	10.108	1.00	0.00
ATOM	470	CB	TRP	30	18.214	-1.781	7.917	1.00	0.00
ATOM	471	CG	TRP	30	18.879	-1.722	6.575	1.00	0.00
ATOM	472	CD1	TRP	30	18.344	-1.235	5.420	1.00	0.00
ATOM	473	CD2	TRP	30	20.203	-2.164	6.250	1.00	0.00
ATOM	474	NE1	TRP	30	19.250	-1.347	4.395	1.00	0.00
ATOM	475	CE2	TRP	30	20.401	-1.914	4.880	1.00	0.00
ATOM	476	CE3	TRP	30	21.241	-2.747	6.987	1.00	0.00
ATOM	477	CZ2	TRP	30	21.586	-2.225	4.232	1.00	0.00
ATOM	478	CZ3	TRP	30	22.429	-3.059	6.337	1.00	0.00
ATOM	479	CH2	TRP	30	22.597	-2.804	4.999	1.00	0.00
ATOM	480	H	TRP	30	15.901	-2.178	6.836	1.00	0.00
ATOM	481	HE1	TRP	30	19.095	-1.060	3.439	1.00	0.00
ATOM	482	HD1	TRP	30	17.328	-0.847	5.474	1.00	0.00
ATOM	483	HZ2	TRP	30	21.676	-2.007	3.167	1.00	0.00
ATOM	484	HH2	TRP	30	23.545	-3.064	4.527	1.00	0.00
ATOM	485	HZ3	TRP	30	23.229	-3.513	6.922	1.00	0.00
ATOM	486	HE3	TRP	30	21.162	-2.968	8.051	1.00	0.00
ATOM	487	HA	TRP	30	18.002	-3.913	7.932	1.00	0.00
ATOM	488	1HB	TRP	30	17.586	-0.893	7.993	1.00	0.00
ATOM	489	2HB	TRP	30	19.008	-1.729	8.662	1.00	0.00
ATOM	490	N	GLN	31	17.235	-4.280	10.183	1.00	0.00
ATOM	491	CA	GLN	31	16.894	-4.520	11.574	1.00	0.00
ATOM	492	C	GLN	31	17.869	-3.739	12.450	1.00	0.00
ATOM	493	O	GLN	31	17.507	-3.240	13.519	1.00	0.00
ATOM	494	CB	GLN	31	16.997	-6.009	11.885	1.00	0.00
ATOM	495	CG	GLN	31	16.157	-6.797	10.885	1.00	0.00
ATOM	496	CD	GLN	31	14.676	-6.483	11.045	1.00	0.00
ATOM	497	OE1	GLN	31	14.124	-6.622	12.135	1.00	0.00
ATOM	498	NE2	GLN	31	14.034	-6.061	9.954	1.00	0.00
ATOM	499	H	GLN	31	17.707	-5.006	9.662	1.00	0.00
ATOM	500	1HE2	GLN	31	13.059	-5.840	10.002	1.00	0.00
ATOM	501	2HE2	GLN	31	14.526	-5.964	9.090	1.00	0.00
ATOM	502	HA	GLN	31	15.890	-4.145	11.774	1.00	0.00
ATOM	503	1HB	GLN	31	18.054	-6.270	11.828	1.00	0.00
ATOM	504	2HB	GLN	31	16.645	-6.142	12.908	1.00	0.00
ATOM	505	1HG	GLN	31	16.395	-6.844	9.823	1.00	0.00
ATOM	506	2HG	GLN	31	16.361	-7.765	11.344	1.00	0.00
ATOM	507	N	ASN	32	19.091	-3.581	11.955	1.00	0.00
ATOM	508	CA	ASN	32	20.145	-2.854	12.656	1.00	0.00
ATOM	509	C	ASN	32	20.937	-2.167	11.534	1.00	0.00
ATOM	510	O	ASN	32	21.612	-2.812	10.728	1.00	0.00
ATOM	511	CB	ASN	32	21.009	-3.830	13.448	1.00	0.00

ATOM	512	CG	ASN	32	22.043	-3.092	14.285	1.00	0.00
ATOM	513	OD1	ASN	32	22.144	-1.869	14.218	1.00	0.00
ATOM	514	ND2	ASN	32	22.813	-3.841	15.078	1.00	0.00
ATOM	515	H	ASN	32	19.301	-3.982	11.052	1.00	0.00
ATOM	516	1HD2	ASN	32	23.510	-3.407	15.651	1.00	0.00
ATOM	517	2HD2	ASN	32	22.694	-4.833	15.099	1.00	0.00
ATOM	518	HA	ASN	32	19.703	-2.102	13.311	1.00	0.00
ATOM	519	1HB	ASN	32	20.555	-4.645	14.014	1.00	0.00
ATOM	520	2HB	ASN	32	21.487	-4.231	12.554	1.00	0.00
ATOM	521	N	PRO	33	20.771	-0.858	11.447	1.00	0.00
ATOM	522	CA	PRO	33	21.431	-0.058	10.437	1.00	0.00
ATOM	523	C	PRO	33	22.949	-0.024	10.543	1.00	0.00
ATOM	524	O	PRO	33	23.514	-0.328	11.594	1.00	0.00
ATOM	525	CB	PRO	33	20.925	1.372	10.528	1.00	0.00
ATOM	526	CG	PRO	33	19.591	1.274	11.219	1.00	0.00
ATOM	527	CD	PRO	33	19.830	-0.046	12.234	1.00	0.00
ATOM	528	1HD	PRO	33	20.312	0.163	13.030	1.00	0.00
ATOM	529	2HD	PRO	33	19.070	-0.615	12.312	1.00	0.00
ATOM	530	1HG	PRO	33	19.530	1.909	11.776	1.00	0.00
ATOM	531	2HG	PRO	33	18.981	0.917	10.604	1.00	0.00
ATOM	532	1HB	PRO	33	21.511	1.721	11.138	1.00	0.00
ATOM	533	2HB	PRO	33	20.775	1.549	9.694	1.00	0.00
ATOM	534	HA	PRO	33	21.218	-0.409	9.529	1.00	0.00
ATOM	535	N	PRO	34	23.632	0.277	9.421	1.00	0.00
ATOM	536	CA	PRO	34	25.098	0.349	9.438	1.00	0.00
ATOM	537	C	PRO	34	25.475	1.604	10.210	1.00	0.00
ATOM	538	O	PRO	34	24.784	2.620	10.124	1.00	0.00
ATOM	539	CB	PRO	34	25.609	0.393	8.008	1.00	0.00
ATOM	540	CG	PRO	34	24.472	0.963	7.202	1.00	0.00
ATOM	541	CD	PRO	34	23.138	0.271	8.043	1.00	0.00
ATOM	542	1HD	PRO	34	22.366	0.830	8.070	1.00	0.00
ATOM	543	2HD	PRO	34	23.008	-0.656	7.867	1.00	0.00
ATOM	544	1HG	PRO	34	24.396	1.785	7.389	1.00	0.00
ATOM	545	2HG	PRO	34	24.443	0.498	6.389	1.00	0.00
ATOM	546	1HB	PRO	34	26.240	1.052	8.073	1.00	0.00
ATOM	547	2HB	PRO	34	25.663	-0.451	7.824	1.00	0.00
ATOM	548	HA	PRO	34	25.475	-0.459	9.881	1.00	0.00
ATOM	549	N	THR	35	26.553	1.536	10.974	1.00	0.00
ATOM	550	CA	THR	35	26.978	2.686	11.748	1.00	0.00
ATOM	551	C	THR	35	28.421	3.103	11.482	1.00	0.00
ATOM	552	O	THR	35	28.671	4.092	10.785	1.00	0.00
ATOM	553	CB	THR	35	26.835	2.434	13.260	1.00	0.00
ATOM	554	OG1	THR	35	27.542	1.239	13.617	1.00	0.00
ATOM	555	CG2	THR	35	25.369	2.283	13.639	1.00	0.00
ATOM	556	H	THR	35	27.083	0.678	11.018	1.00	0.00
ATOM	557	HG1	THR	35	27.452	1.084	14.560	1.00	0.00
ATOM	558	HA	THR	35	26.375	3.554	11.480	1.00	0.00
ATOM	559	HB	THR	35	27.266	3.276	13.802	1.00	0.00
ATOM	560	1HG2	THR	35	25.288	2.106	14.711	1.00	0.00
ATOM	561	2HG2	THR	35	24.831	3.194	13.379	1.00	0.00
ATOM	562	3HG2	THR	35	24.939	1.441	13.098	1.00	0.00
ATOM	563	N	GLU	36	29.364	2.340	12.028	1.00	0.00
ATOM	564	CA	GLU	36	30.788	2.629	11.863	1.00	0.00
ATOM	565	C	GLU	36	31.522	1.386	11.396	1.00	0.00
ATOM	566	O	GLU	36	31.022	0.260	11.544	1.00	0.00
ATOM	567	CB	GLU	36	31.385	3.149	13.173	1.00	0.00
ATOM	568	CG	GLU	36	30.777	4.454	13.666	1.00	0.00

ATOM	569	CD	GLU	36	31.393	4.886	14.968	1.00	0.00
ATOM	570	OE1	GLU	36	32.229	4.176	15.472	1.00	0.00
ATOM	571	OE2	GLU	36	31.113	5.979	15.401	1.00	0.00
ATOM	572	H	GLU	36	29.088	1.536	12.573	1.00	0.00
ATOM	573	HA	GLU	36	30.924	3.389	11.093	1.00	0.00
ATOM	574	1HB	GLU	36	31.233	2.372	13.923	1.00	0.00
ATOM	575	2HB	GLU	36	32.453	3.287	13.004	1.00	0.00
ATOM	576	1HG	GLU	36	30.850	5.266	12.943	1.00	0.00
ATOM	577	2HG	GLU	36	29.729	4.204	13.826	1.00	0.00
ATOM	578	N	PRO	37	32.712	1.573	10.796	1.00	0.00
ATOM	579	CA	PRO	37	33.478	0.415	10.327	1.00	0.00
ATOM	580	C	PRO	37	33.722	-0.540	11.492	1.00	0.00
ATOM	581	O	PRO	37	33.877	-0.104	12.632	1.00	0.00
ATOM	582	CB	PRO	37	34.797	0.895	9.746	1.00	0.00
ATOM	583	CG	PRO	37	34.556	2.330	9.358	1.00	0.00
ATOM	584	CD	PRO	37	33.457	2.811	10.556	1.00	0.00
ATOM	585	1HD	PRO	37	33.865	3.003	11.396	1.00	0.00
ATOM	586	2HD	PRO	37	32.784	3.408	10.243	1.00	0.00
ATOM	587	1HG	PRO	37	35.243	2.782	9.560	1.00	0.00
ATOM	588	2HG	PRO	37	34.006	2.328	8.599	1.00	0.00
ATOM	589	1HB	PRO	37	35.318	0.911	10.498	1.00	0.00
ATOM	590	2HB	PRO	37	34.837	0.430	9.017	1.00	0.00
ATOM	591	HA	PRO	37	32.975	-0.062	9.611	1.00	0.00
ATOM	592	N	GLY	38	33.652	-1.836	11.227	1.00	0.00
ATOM	593	CA	GLY	38	33.875	-2.805	12.277	1.00	0.00
ATOM	594	C	GLY	38	32.624	-3.235	13.010	1.00	0.00
ATOM	595	O	GLY	38	32.650	-4.259	13.700	1.00	0.00
ATOM	596	H	GLY	38	33.442	-2.148	10.290	1.00	0.00
ATOM	597	1HA	GLY	38	34.323	-3.701	11.846	1.00	0.00
ATOM	598	2HA	GLY	38	34.554	-2.380	13.015	1.00	0.00
ATOM	599	N	GLN	39	31.531	-2.479	12.867	1.00	0.00
ATOM	600	CA	GLN	39	30.263	-2.808	13.535	1.00	0.00
ATOM	601	C	GLN	39	29.292	-3.536	12.609	1.00	0.00
ATOM	602	O	GLN	39	29.153	-3.175	11.443	1.00	0.00
ATOM	603	CB	GLN	39	29.582	-1.531	14.016	1.00	0.00
ATOM	604	CG	GLN	39	30.456	-0.852	15.064	1.00	0.00
ATOM	605	CD	GLN	39	30.574	-1.708	16.318	1.00	0.00
ATOM	606	OE1	GLN	39	29.567	-2.086	16.911	1.00	0.00
ATOM	607	NE2	GLN	39	31.811	-2.010	16.720	1.00	0.00
ATOM	608	H	GLN	39	31.577	-1.657	12.282	1.00	0.00
ATOM	609	1HE2	GLN	39	31.946	-2.569	17.539	1.00	0.00
ATOM	610	2HE2	GLN	39	32.600	-1.679	16.204	1.00	0.00
ATOM	611	HA	GLN	39	30.453	-3.488	14.365	1.00	0.00
ATOM	612	1HB	GLN	39	29.433	-0.903	13.137	1.00	0.00
ATOM	613	2HB	GLN	39	28.613	-1.824	14.420	1.00	0.00
ATOM	614	1HG	GLN	39	31.433	-0.429	14.833	1.00	0.00
ATOM	615	2HG	GLN	39	29.749	-0.044	15.257	1.00	0.00
ATOM	616	N	PRO	40	28.619	-4.551	13.143	1.00	0.00
ATOM	617	CA	PRO	40	27.662	-5.329	12.366	1.00	0.00
ATOM	618	C	PRO	40	26.360	-4.587	12.048	1.00	0.00
ATOM	619	O	PRO	40	25.974	-3.645	12.751	1.00	0.00
ATOM	620	CB	PRO	40	27.311	-6.593	13.133	1.00	0.00
ATOM	621	CG	PRO	40	27.552	-6.253	14.581	1.00	0.00
ATOM	622	CD	PRO	40	28.936	-5.228	14.405	1.00	0.00
ATOM	623	1HD	PRO	40	28.980	-4.521	15.043	1.00	0.00
ATOM	624	2HD	PRO	40	29.742	-5.693	14.201	1.00	0.00
ATOM	625	1HG	PRO	40	26.953	-5.710	14.833	1.00	0.00

ATOM	626	2HG	PRO	40	27.926	-7.009	14.989	1.00	0.00
ATOM	627	1HB	PRO	40	26.404	-6.616	13.017	1.00	0.00
ATOM	628	2HB	PRO	40	27.946	-7.124	12.879	1.00	0.00
ATOM	629	HA	PRO	40	28.064	-5.593	11.493	1.00	0.00
ATOM	630	N	VAL	41	25.718	-4.998	10.958	1.00	0.00
ATOM	631	CA	VAL	41	24.463	-4.422	10.503	1.00	0.00
ATOM	632	C	VAL	41	23.629	-5.655	10.225	1.00	0.00
ATOM	633	O	VAL	41	24.172	-6.707	9.904	1.00	0.00
ATOM	634	CB	VAL	41	24.669	-3.518	9.273	1.00	0.00
ATOM	635	CG1	VAL	41	25.803	-2.534	9.519	1.00	0.00
ATOM	636	CG2	VAL	41	24.953	-4.357	8.037	1.00	0.00
ATOM	637	H	VAL	41	26.123	-5.749	10.418	1.00	0.00
ATOM	638	HA	VAL	41	23.987	-3.835	11.290	1.00	0.00
ATOM	639	HB	VAL	41	23.747	-2.969	9.079	1.00	0.00
ATOM	640	1HG1	VAL	41	25.934	-1.903	8.640	1.00	0.00
ATOM	641	2HG1	VAL	41	25.563	-1.910	10.380	1.00	0.00
ATOM	642	3HG1	VAL	41	26.725	-3.082	9.712	1.00	0.00
ATOM	643	1HG2	VAL	41	25.095	-3.703	7.177	1.00	0.00
ATOM	644	2HG2	VAL	41	25.856	-4.947	8.198	1.00	0.00
ATOM	645	3HG2	VAL	41	24.112	-5.024	7.849	1.00	0.00
ATOM	646	N	VAL	42	22.323	-5.572	10.436	1.00	0.00
ATOM	647	CA	VAL	42	21.458	-6.721	10.194	1.00	0.00
ATOM	648	C	VAL	42	20.408	-6.257	9.218	1.00	0.00
ATOM	649	O	VAL	42	19.820	-5.190	9.421	1.00	0.00
ATOM	650	CB	VAL	42	20.833	-7.243	11.501	1.00	0.00
ATOM	651	CG1	VAL	42	19.898	-8.409	11.216	1.00	0.00
ATOM	652	CG2	VAL	42	21.919	-7.661	12.482	1.00	0.00
ATOM	653	H	VAL	42	21.923	-4.706	10.767	1.00	0.00
ATOM	654	HA	VAL	42	22.005	-7.537	9.720	1.00	0.00
ATOM	655	HB	VAL	42	20.273	-6.435	11.973	1.00	0.00
ATOM	656	1HG1	VAL	42	19.465	-8.765	12.151	1.00	0.00
ATOM	657	2HG1	VAL	42	19.101	-8.081	10.549	1.00	0.00
ATOM	658	3HG1	VAL	42	20.457	-9.217	10.745	1.00	0.00
ATOM	659	1HG2	VAL	42	21.460	-8.026	13.400	1.00	0.00
ATOM	660	2HG2	VAL	42	22.524	-8.452	12.038	1.00	0.00
ATOM	661	3HG2	VAL	42	22.553	-6.804	12.710	1.00	0.00
ATOM	662	N	ILE	43	20.143	-7.059	8.189	1.00	0.00
ATOM	663	CA	ILE	43	19.133	-6.692	7.192	1.00	0.00
ATOM	664	C	ILE	43	18.286	-7.852	6.663	1.00	0.00
ATOM	665	O	ILE	43	18.808	-8.931	6.362	1.00	0.00
ATOM	666	CB	ILE	43	19.770	-6.010	5.967	1.00	0.00
ATOM	667	CG1	ILE	43	18.686	-5.560	4.984	1.00	0.00
ATOM	668	CG2	ILE	43	20.754	-6.948	5.287	1.00	0.00
ATOM	669	CD1	ILE	43	19.230	-4.895	3.739	1.00	0.00
ATOM	670	H	ILE	43	20.644	-7.931	8.094	1.00	0.00
ATOM	671	HA	ILE	43	18.386	-6.030	7.628	1.00	0.00
ATOM	672	HB	ILE	43	20.292	-5.111	6.293	1.00	0.00
ATOM	673	1HG2	ILE	43	21.194	-6.450	4.423	1.00	0.00
ATOM	674	2HG2	ILE	43	21.541	-7.220	5.989	1.00	0.00
ATOM	675	3HG2	ILE	43	20.233	-7.848	4.960	1.00	0.00
ATOM	676	1HG1	ILE	43	18.114	-6.444	4.704	1.00	0.00
ATOM	677	2HG1	ILE	43	18.037	-4.863	5.514	1.00	0.00
ATOM	678	1HD1	ILE	43	18.403	-4.603	3.091	1.00	0.00
ATOM	679	2HD1	ILE	43	19.801	-4.009	4.019	1.00	0.00
ATOM	680	3HD1	ILE	43	19.878	-5.591	3.208	1.00	0.00
ATOM	681	N	LEU	44	16.970	-7.672	6.681	1.00	0.00
ATOM	682	CA	LEU	44	16.063	-8.693	6.180	1.00	0.00

ATOM	683	C	LEU	44	15.940	-8.404	4.674	1.00	0.00
ATOM	684	O	LEU	44	15.591	-7.293	4.266	1.00	0.00
ATOM	685	CB	LEU	44	14.719	-8.644	6.918	1.00	0.00
ATOM	686	CG	LEU	44	13.578	-9.480	6.333	1.00	0.00
ATOM	687	CD1	LEU	44	13.848	-10.977	6.339	1.00	0.00
ATOM	688	CD2	LEU	44	12.217	-9.173	6.941	1.00	0.00
ATOM	689	H	LEU	44	16.592	-6.811	7.049	1.00	0.00
ATOM	690	HA	LEU	44	16.505	-9.678	6.327	1.00	0.00
ATOM	691	1HB	LEU	44	15.026	-9.067	7.873	1.00	0.00
ATOM	692	2HB	LEU	44	14.378	-7.620	7.067	1.00	0.00
ATOM	693	HG	LEU	44	13.422	-9.143	5.308	1.00	0.00
ATOM	694	1HD1	LEU	44	12.995	-11.503	5.909	1.00	0.00
ATOM	695	2HD1	LEU	44	14.739	-11.188	5.747	1.00	0.00
ATOM	696	3HD1	LEU	44	14.003	-11.314	7.363	1.00	0.00
ATOM	697	1HD2	LEU	44	11.460	-9.805	6.475	1.00	0.00
ATOM	698	2HD2	LEU	44	12.244	-9.369	8.013	1.00	0.00
ATOM	699	3HD2	LEU	44	11.970	-8.125	6.770	1.00	0.00
ATOM	700	N	ILE	45	16.249	-9.404	3.860	1.00	0.00
ATOM	701	CA	ILE	45	16.181	-9.284	2.403	1.00	0.00
ATOM	702	C	ILE	45	15.045	-10.159	1.885	1.00	0.00
ATOM	703	O	ILE	45	15.035	-11.376	2.115	1.00	0.00
ATOM	704	CB	ILE	45	17.511	-9.687	1.740	1.00	0.00
ATOM	705	CG1	ILE	45	18.649	-8.794	2.240	1.00	0.00
ATOM	706	CG2	ILE	45	17.395	-9.610	0.226	1.00	0.00
ATOM	707	CD1	ILE	45	18.567	-7.367	1.748	1.00	0.00
ATOM	708	H	ILE	45	16.543	-10.283	4.261	1.00	0.00
ATOM	709	HA	ILE	45	15.926	-8.265	2.113	1.00	0.00
ATOM	710	HB	ILE	45	17.760	-10.706	2.034	1.00	0.00
ATOM	711	1HG2	ILE	45	18.344	-9.897	-0.227	1.00	0.00
ATOM	712	2HG2	ILE	45	16.612	-10.286	-0.114	1.00	0.00
ATOM	713	3HG2	ILE	45	17.147	-8.590	-0.069	1.00	0.00
ATOM	714	1HG1	ILE	45	18.616	-8.805	3.329	1.00	0.00
ATOM	715	2HG1	ILE	45	19.584	-9.241	1.902	1.00	0.00
ATOM	716	1HD1	ILE	45	19.407	-6.796	2.144	1.00	0.00
ATOM	717	2HD1	ILE	45	18.602	-7.354	0.658	1.00	0.00
ATOM	718	3HD1	ILE	45	17.634	-6.918	2.086	1.00	0.00
ATOM	719	N	PRO	46	14.072	-9.559	1.180	1.00	0.00
ATOM	720	CA	PRO	46	12.949	-10.344	0.650	1.00	0.00
ATOM	721	C	PRO	46	13.474	-11.491	-0.209	1.00	0.00
ATOM	722	O	PRO	46	14.459	-11.325	-0.931	1.00	0.00
ATOM	723	CB	PRO	46	12.054	-9.435	-0.175	1.00	0.00
ATOM	724	CG	PRO	46	12.326	-8.045	0.338	1.00	0.00
ATOM	725	CD	PRO	46	13.967	-8.165	0.747	1.00	0.00
ATOM	726	1HD	PRO	46	14.553	-8.110	-0.003	1.00	0.00
ATOM	727	2HD	PRO	46	14.204	-7.679	1.531	1.00	0.00
ATOM	728	1HG	PRO	46	12.349	-7.515	-0.322	1.00	0.00
ATOM	729	2HG	PRO	46	11.933	-7.976	1.186	1.00	0.00
ATOM	730	1HB	PRO	46	12.458	-9.496	-0.993	1.00	0.00
ATOM	731	2HB	PRO	46	11.271	-9.670	0.109	1.00	0.00
ATOM	732	HA	PRO	46	12.410	-10.720	1.399	1.00	0.00
ATOM	733	N	SER	47	12.804	-12.639	-0.141	1.00	0.00
ATOM	734	CA	SER	47	13.188	-13.824	-0.900	1.00	0.00
ATOM	735	C	SER	47	13.625	-13.556	-2.341	1.00	0.00
ATOM	736	O	SER	47	14.685	-13.992	-2.778	1.00	0.00
ATOM	737	CB	SER	47	11.901	-14.653	-0.918	1.00	0.00
ATOM	738	OG	SER	47	10.850	-13.949	-1.555	1.00	0.00
ATOM	739	H	SER	47	11.995	-12.692	0.462	1.00	0.00

ATOM	740	HG	SER	47	10.056	-14.489	-1.553	1.00	0.00
ATOM	741	HA	SER	47	13.974	-14.409	-0.421	1.00	0.00
ATOM	742	1HB	SER	47	12.093	-15.582	-1.454	1.00	0.00
ATOM	743	2HB	SER	47	11.617	-14.879	0.109	1.00	0.00
ATOM	744	N	ASP	48	12.772	-12.872	-3.082	1.00	0.00
ATOM	745	CA	ASP	48	13.054	-12.546	-4.467	1.00	0.00
ATOM	746	C	ASP	48	14.384	-11.815	-4.713	1.00	0.00
ATOM	747	O	ASP	48	15.036	-12.058	-5.731	1.00	0.00
ATOM	748	CB	ASP	48	11.932	-11.687	-5.055	1.00	0.00
ATOM	749	CG	ASP	48	10.625	-12.433	-5.287	1.00	0.00
ATOM	750	OD1	ASP	48	10.618	-13.634	-5.161	1.00	0.00
ATOM	751	OD2	ASP	48	9.614	-11.787	-5.432	1.00	0.00
ATOM	752	H	ASP	48	11.900	-12.568	-2.673	1.00	0.00
ATOM	753	HA	ASP	48	13.135	-13.462	-5.053	1.00	0.00
ATOM	754	1HB	ASP	48	11.735	-10.779	-4.484	1.00	0.00
ATOM	755	2HB	ASP	48	12.375	-11.424	-6.016	1.00	0.00
ATOM	756	N	MET	49	14.815	-10.982	-3.763	1.00	0.00
ATOM	757	CA	MET	49	16.069	-10.228	-3.901	1.00	0.00
ATOM	758	C	MET	49	17.268	-10.821	-3.197	1.00	0.00
ATOM	759	O	MET	49	18.338	-10.212	-3.218	1.00	0.00
ATOM	760	CB	MET	49	15.885	-8.800	-3.390	1.00	0.00
ATOM	761	CG	MET	49	14.839	-7.992	-4.144	1.00	0.00
ATOM	762	SD	MET	49	15.277	-7.729	-5.874	1.00	0.00
ATOM	763	CE	MET	49	16.669	-6.616	-5.706	1.00	0.00
ATOM	764	H	MET	49	14.263	-10.867	-2.925	1.00	0.00
ATOM	765	HA	MET	49	16.365	-10.188	-4.949	1.00	0.00
ATOM	766	1HB	MET	49	15.602	-8.873	-2.341	1.00	0.00
ATOM	767	2HB	MET	49	16.854	-8.306	-3.472	1.00	0.00
ATOM	768	1HG	MET	49	13.893	-8.529	-4.092	1.00	0.00
ATOM	769	2HG	MET	49	14.736	-7.026	-3.650	1.00	0.00
ATOM	770	1HE	MET	49	17.052	-6.360	-6.694	1.00	0.00
ATOM	771	2HE	MET	49	16.349	-5.708	-5.194	1.00	0.00
ATOM	772	3HE	MET	49	17.455	-7.102	-5.127	1.00	0.00
ATOM	773	N	VAL	50	17.126	-11.985	-2.575	1.00	0.00
ATOM	774	CA	VAL	50	18.262	-12.571	-1.870	1.00	0.00
ATOM	775	C	VAL	50	19.549	-12.728	-2.682	1.00	0.00
ATOM	776	O	VAL	50	20.614	-12.254	-2.264	1.00	0.00
ATOM	777	CB	VAL	50	17.925	-13.969	-1.318	1.00	0.00
ATOM	778	CG1	VAL	50	19.198	-14.733	-0.988	1.00	0.00
ATOM	779	CG2	VAL	50	17.039	-13.855	-0.086	1.00	0.00
ATOM	780	H	VAL	50	16.236	-12.463	-2.589	1.00	0.00
ATOM	781	HA	VAL	50	18.584	-11.938	-1.042	1.00	0.00
ATOM	782	HB	VAL	50	17.356	-14.518	-2.068	1.00	0.00
ATOM	783	1HG1	VAL	50	18.941	-15.719	-0.600	1.00	0.00
ATOM	784	2HG1	VAL	50	19.799	-14.845	-1.890	1.00	0.00
ATOM	785	3HG1	VAL	50	19.767	-14.185	-0.237	1.00	0.00
ATOM	786	1HG2	VAL	50	16.809	-14.851	0.291	1.00	0.00
ATOM	787	2HG2	VAL	50	17.560	-13.286	0.684	1.00	0.00
ATOM	788	3HG2	VAL	50	16.112	-13.345	-0.350	1.00	0.00
ATOM	789	N	GLU	51	19.437	-13.345	-3.860	1.00	0.00
ATOM	790	CA	GLU	51	20.594	-13.565	-4.735	1.00	0.00
ATOM	791	C	GLU	51	21.226	-12.262	-5.223	1.00	0.00
ATOM	792	O	GLU	51	22.440	-12.067	-5.093	1.00	0.00
ATOM	793	CB	GLU	51	20.197	-14.415	-5.944	1.00	0.00
ATOM	794	CG	GLU	51	19.920	-15.877	-5.621	1.00	0.00
ATOM	795	CD	GLU	51	19.512	-16.640	-6.851	1.00	0.00
ATOM	796	OE1	GLU	51	19.417	-16.040	-7.895	1.00	0.00

ATOM	797	OE2	GLU	51	19.404	-17.841	-6.772	1.00	0.00
ATOM	798	H	GLU	51	18.528	-13.670	-4.158	1.00	0.00
ATOM	799	HA	GLU	51	21.379	-14.086	-4.186	1.00	0.00
ATOM	800	1HB	GLU	51	19.302	-13.962	-6.371	1.00	0.00
ATOM	801	2HB	GLU	51	21.015	-14.351	-6.662	1.00	0.00
ATOM	802	1HG	GLU	51	20.759	-16.382	-5.143	1.00	0.00
ATOM	803	2HG	GLU	51	19.082	-15.832	-4.927	1.00	0.00
ATOM	804	N	TRP	52	20.402	-11.370	-5.768	1.00	0.00
ATOM	805	CA	TRP	52	20.893	-10.094	-6.266	1.00	0.00
ATOM	806	C	TRP	52	21.648	-9.323	-5.181	1.00	0.00
ATOM	807	O	TRP	52	22.726	-8.779	-5.440	1.00	0.00
ATOM	808	CB	TRP	52	19.735	-9.247	-6.797	1.00	0.00
ATOM	809	CG	TRP	52	20.165	-7.921	-7.346	1.00	0.00
ATOM	810	CD1	TRP	52	20.465	-7.635	-8.644	1.00	0.00
ATOM	811	CD2	TRP	52	20.343	-6.702	-6.614	1.00	0.00
ATOM	812	NE1	TRP	52	20.821	-6.315	-8.768	1.00	0.00
ATOM	813	CE2	TRP	52	20.752	-5.720	-7.534	1.00	0.00
ATOM	814	CE3	TRP	52	20.195	-6.347	-5.268	1.00	0.00
ATOM	815	CZ2	TRP	52	21.016	-4.412	-7.156	1.00	0.00
ATOM	816	CZ3	TRP	52	20.458	-5.036	-4.889	1.00	0.00
ATOM	817	CH2	TRP	52	20.856	-4.096	-5.807	1.00	0.00
ATOM	818	H	TRP	52	19.417	-11.583	-5.837	1.00	0.00
ATOM	819	HE1	TRP	52	21.089	-5.856	-9.626	1.00	0.00
ATOM	820	HD1	TRP	52	20.385	-8.452	-9.360	1.00	0.00
ATOM	821	HZ2	TRP	52	21.329	-3.698	-7.917	1.00	0.00
ATOM	822	HH2	TRP	52	21.052	-3.078	-5.469	1.00	0.00
ATOM	823	HZ3	TRP	52	20.340	-4.773	-3.838	1.00	0.00
ATOM	824	HE3	TRP	52	19.880	-7.052	-4.499	1.00	0.00
ATOM	825	HA	TRP	52	21.602	-10.262	-7.077	1.00	0.00
ATOM	826	1HB	TRP	52	19.226	-9.769	-7.607	1.00	0.00
ATOM	827	2HB	TRP	52	19.025	-9.038	-5.997	1.00	0.00
ATOM	828	N	PHE	53	21.115	-9.296	-3.961	1.00	0.00
ATOM	829	CA	PHE	53	21.782	-8.584	-2.877	1.00	0.00
ATOM	830	C	PHE	53	23.091	-9.266	-2.488	1.00	0.00
ATOM	831	O	PHE	53	24.088	-8.593	-2.251	1.00	0.00
ATOM	832	CB	PHE	53	20.862	-8.481	-1.659	1.00	0.00
ATOM	833	CG	PHE	53	21.349	-7.523	-0.610	1.00	0.00
ATOM	834	CD1	PHE	53	21.208	-6.154	-0.782	1.00	0.00
ATOM	835	CD2	PHE	53	21.950	-7.988	0.550	1.00	0.00
ATOM	836	CE1	PHE	53	21.656	-5.271	0.182	1.00	0.00
ATOM	837	CE2	PHE	53	22.398	-7.108	1.516	1.00	0.00
ATOM	838	CZ	PHE	53	22.251	-5.748	1.331	1.00	0.00
ATOM	839	H	PHE	53	20.242	-9.772	-3.785	1.00	0.00
ATOM	840	HD1	PHE	53	20.737	-5.777	-1.690	1.00	0.00
ATOM	841	HE1	PHE	53	22.868	-7.486	2.424	1.00	0.00
ATOM	842	HZ	PHE	53	22.606	-5.053	2.091	1.00	0.00
ATOM	843	HE2	PHE	53	22.868	-7.486	2.424	1.00	0.00
ATOM	844	HD2	PHE	53	22.067	-9.062	0.695	1.00	0.00
ATOM	845	HA	PHE	53	22.043	-7.576	-3.202	1.00	0.00
ATOM	846	1HB	PHE	53	19.875	-8.135	-1.962	1.00	0.00
ATOM	847	2HB	PHE	53	20.772	-9.453	-1.175	1.00	0.00
ATOM	848	N	LEU	54	23.105	-10.592	-2.452	1.00	0.00
ATOM	849	CA	LEU	54	24.320	-11.300	-2.096	1.00	0.00
ATOM	850	C	LEU	54	25.410	-11.043	-3.134	1.00	0.00
ATOM	851	O	LEU	54	26.559	-10.781	-2.775	1.00	0.00
ATOM	852	CB	LEU	54	24.059	-12.806	-1.961	1.00	0.00
ATOM	853	CG	LEU	54	23.082	-13.242	-0.865	1.00	0.00

ATOM	854	CD1	LEU	54	22.990	-14.750	-0.689	1.00	0.00
ATOM	855	CD2	LEU	54	23.315	-12.554	0.472	1.00	0.00
ATOM	856	H	LEU	54	22.267	-11.110	-2.673	1.00	0.00
ATOM	857	HA	LEU	54	24.695	-10.925	-1.144	1.00	0.00
ATOM	858	1HB	LEU	54	23.618	-12.998	-2.938	1.00	0.00
ATOM	859	2HB	LEU	54	24.987	-13.369	-1.865	1.00	0.00
ATOM	860	HG	LEU	54	22.101	-12.847	-1.130	1.00	0.00
ATOM	861	1HD1	LEU	54	22.279	-14.982	0.104	1.00	0.00
ATOM	862	2HD1	LEU	54	22.654	-15.205	-1.621	1.00	0.00
ATOM	863	3HD1	LEU	54	23.970	-15.146	-0.424	1.00	0.00
ATOM	864	1HD2	LEU	54	22.584	-12.913	1.198	1.00	0.00
ATOM	865	2HD2	LEU	54	24.321	-12.779	0.827	1.00	0.00
ATOM	866	3HD2	LEU	54	23.206	-11.476	0.351	1.00	0.00
ATOM	867	N	GLU	55	25.038	-11.070	-4.414	1.00	0.00
ATOM	868	CA	GLU	55	25.991	-10.833	-5.502	1.00	0.00
ATOM	869	C	GLU	55	26.614	-9.439	-5.375	1.00	0.00
ATOM	870	O	GLU	55	27.831	-9.266	-5.534	1.00	0.00
ATOM	871	CB	GLU	55	25.304	-10.991	-6.860	1.00	0.00
ATOM	872	CG	GLU	55	24.914	-12.421	-7.205	1.00	0.00
ATOM	873	CD	GLU	55	24.222	-12.492	-8.538	1.00	0.00
ATOM	874	OE1	GLU	55	24.027	-11.464	-9.141	1.00	0.00
ATOM	875	OE2	GLU	55	23.989	-13.581	-9.007	1.00	0.00
ATOM	876	H	GLU	55	24.072	-11.259	-4.640	1.00	0.00
ATOM	877	HA	GLU	55	26.809	-11.552	-5.440	1.00	0.00
ATOM	878	1HB	GLU	55	24.410	-10.367	-6.839	1.00	0.00
ATOM	879	2HB	GLU	55	25.995	-10.612	-7.613	1.00	0.00
ATOM	880	1HG	GLU	55	25.755	-13.114	-7.196	1.00	0.00
ATOM	881	2HG	GLU	55	24.213	-12.692	-6.417	1.00	0.00
ATOM	882	N	MET	56	25.769	-8.451	-5.089	1.00	0.00
ATOM	883	CA	MET	56	26.216	-7.077	-4.935	1.00	0.00
ATOM	884	C	MET	56	27.186	-6.983	-3.760	1.00	0.00
ATOM	885	O	MET	56	28.213	-6.302	-3.842	1.00	0.00
ATOM	886	CB	MET	56	25.018	-6.152	-4.734	1.00	0.00
ATOM	887	CG	MET	56	24.160	-5.953	-5.976	1.00	0.00
ATOM	888	SD	MET	56	24.925	-4.849	-7.180	1.00	0.00
ATOM	889	CE	MET	56	24.828	-3.285	-6.314	1.00	0.00
ATOM	890	H	MET	56	24.788	-8.663	-4.976	1.00	0.00
ATOM	891	HA	MET	56	26.756	-6.760	-5.827	1.00	0.00
ATOM	892	1HB	MET	56	24.412	-6.586	-3.940	1.00	0.00
ATOM	893	2HB	MET	56	25.412	-5.189	-4.407	1.00	0.00
ATOM	894	1HG	MET	56	23.997	-6.927	-6.436	1.00	0.00
ATOM	895	2HG	MET	56	23.204	-5.534	-5.664	1.00	0.00
ATOM	896	1HE	MET	56	25.263	-2.499	-6.932	1.00	0.00
ATOM	897	2HE	MET	56	23.784	-3.048	-6.106	1.00	0.00
ATOM	898	3HE	MET	56	25.378	-3.355	-5.375	1.00	0.00
ATOM	899	N	LEU	57	26.852	-7.654	-2.665	1.00	0.00
ATOM	900	CA	LEU	57	27.698	-7.642	-1.481	1.00	0.00
ATOM	901	C	LEU	57	29.087	-8.163	-1.821	1.00	0.00
ATOM	902	O	LEU	57	30.090	-7.487	-1.588	1.00	0.00
ATOM	903	CB	LEU	57	27.076	-8.476	-0.353	1.00	0.00
ATOM	904	CG	LEU	57	25.889	-7.857	0.389	1.00	0.00
ATOM	905	CD1	LEU	57	25.260	-8.780	1.422	1.00	0.00
ATOM	906	CD2	LEU	57	26.188	-6.493	0.995	1.00	0.00
ATOM	907	H	LEU	57	25.992	-8.184	-2.653	1.00	0.00
ATOM	908	HA	LEU	57	27.820	-6.618	-1.130	1.00	0.00
ATOM	909	1HB	LEU	57	26.735	-9.332	-0.933	1.00	0.00
ATOM	910	2HB	LEU	57	27.825	-8.801	0.369	1.00	0.00



ATOM	911	HG	LEU	57	25.143	-7.589	-0.360	1.00	0.00
ATOM	912	1HD1	LEU	57	24.426	-8.271	1.905	1.00	0.00
ATOM	913	2HD1	LEU	57	24.897	-9.683	0.930	1.00	0.00
ATOM	914	3HD1	LEU	57	26.004	-9.048	2.171	1.00	0.00
ATOM	915	1HD2	LEU	57	25.299	-6.119	1.503	1.00	0.00
ATOM	916	2HD2	LEU	57	27.005	-6.584	1.711	1.00	0.00
ATOM	917	3HD2	LEU	57	26.473	-5.798	0.205	1.00	0.00
ATOM	918	N	LYS	58	29.133	-9.359	-2.400	1.00	0.00
ATOM	919	CA	LYS	58	30.393	-9.984	-2.783	1.00	0.00
ATOM	920	C	LYS	58	31.152	-9.139	-3.801	1.00	0.00
ATOM	921	O	LYS	58	32.365	-8.974	-3.686	1.00	0.00
ATOM	922	CB	LYS	58	30.147	-11.384	-3.349	1.00	0.00
ATOM	923	CG	LYS	58	29.751	-12.422	-2.307	1.00	0.00
ATOM	924	CD	LYS	58	29.540	-13.789	-2.941	1.00	0.00
ATOM	925	CE	LYS	58	29.149	-14.828	-1.901	1.00	0.00
ATOM	926	NZ	LYS	58	28.917	-16.166	-2.511	1.00	0.00
ATOM	927	H	LYS	58	28.269	-9.849	-2.580	1.00	0.00
ATOM	928	1HZ	LYS	58	28.660	-16.824	-1.789	1.00	0.00
ATOM	929	2HZ	LYS	58	28.170	-16.102	-3.189	1.00	0.00
ATOM	930	3HZ	LYS	58	29.761	-16.479	-2.967	1.00	0.00
ATOM	931	HA	LYS	58	31.042	-10.071	-1.911	1.00	0.00
ATOM	932	1HB	LYS	58	29.353	-11.293	-4.091	1.00	0.00
ATOM	933	2HB	LYS	58	31.068	-11.697	-3.840	1.00	0.00
ATOM	934	1HG	LYS	58	30.545	-12.485	-1.562	1.00	0.00
ATOM	935	2HG	LYS	58	28.828	-12.097	-1.827	1.00	0.00
ATOM	936	1HD	LYS	58	28.750	-13.707	-3.689	1.00	0.00
ATOM	937	2HD	LYS	58	30.467	-14.094	-3.426	1.00	0.00
ATOM	938	1HE	LYS	58	29.952	-14.897	-1.169	1.00	0.00
ATOM	939	2HE	LYS	58	28.237	-14.491	-1.408	1.00	0.00
ATOM	940	N	ALA	59	30.432	-8.562	-4.762	1.00	0.00
ATOM	941	CA	ALA	59	31.063	-7.732	-5.782	1.00	0.00
ATOM	942	C	ALA	59	31.773	-6.526	-5.161	1.00	0.00
ATOM	943	O	ALA	59	32.662	-5.943	-5.781	1.00	0.00
ATOM	944	CB	ALA	59	30.033	-7.273	-6.803	1.00	0.00
ATOM	945	H	ALA	59	29.432	-8.702	-4.785	1.00	0.00
ATOM	946	HA	ALA	59	31.821	-8.324	-6.295	1.00	0.00
ATOM	947	1HB	ALA	59	30.520	-6.655	-7.557	1.00	0.00
ATOM	948	2HB	ALA	59	29.583	-8.142	-7.282	1.00	0.00
ATOM	949	3HB	ALA	59	29.259	-6.692	-6.303	1.00	0.00
ATOM	950	N	LYS	60	31.343	-6.118	-3.968	1.00	0.00
ATOM	951	CA	LYS	60	31.959	-4.978	-3.287	1.00	0.00
ATOM	952	C	LYS	60	32.936	-5.508	-2.233	1.00	0.00
ATOM	953	O	LYS	60	33.579	-4.737	-1.509	1.00	0.00
ATOM	954	CB	LYS	60	30.887	-4.086	-2.659	1.00	0.00
ATOM	955	CG	LYS	60	30.206	-3.138	-3.637	1.00	0.00
ATOM	956	CD	LYS	60	31.161	-2.053	-4.112	1.00	0.00
ATOM	957	CE	LYS	60	30.466	-1.072	-5.045	1.00	0.00
ATOM	958	NZ	LYS	60	31.400	-0.031	-5.554	1.00	0.00
ATOM	959	H	LYS	60	30.577	-6.605	-3.525	1.00	0.00
ATOM	960	1HZ	LYS	60	30.901	0.598	-6.168	1.00	0.00
ATOM	961	2HZ	LYS	60	31.781	0.489	-4.776	1.00	0.00
ATOM	962	3HZ	LYS	60	32.151	-0.473	-6.064	1.00	0.00
ATOM	963	HA	LYS	60	32.530	-4.385	-4.003	1.00	0.00
ATOM	964	1HB	LYS	60	30.142	-4.747	-2.215	1.00	0.00
ATOM	965	2HB	LYS	60	31.372	-3.508	-1.872	1.00	0.00
ATOM	966	1HG	LYS	60	29.857	-3.716	-4.493	1.00	0.00
ATOM	967	2HG	LYS	60	29.353	-2.679	-3.138	1.00	0.00

ATOM	968	1HD	LYS	60	31.541	-1.519	-3.240	1.00	0.00
ATOM	969	2HD	LYS	60	31.991	-2.526	-4.637	1.00	0.00
ATOM	970	1HE	LYS	60	30.054	-1.631	-5.884	1.00	0.00
ATOM	971	2HE	LYS	60	29.655	-0.594	-4.495	1.00	0.00
ATOM	972	N	GLY	61	33.033	-6.831	-2.150	1.00	0.00
ATOM	973	CA	GLY	61	33.918	-7.463	-1.190	1.00	0.00
ATOM	974	C	GLY	61	33.420	-7.265	0.232	1.00	0.00
ATOM	975	O	GLY	61	34.210	-7.261	1.180	1.00	0.00
ATOM	976	H	GLY	61	32.480	-7.408	-2.768	1.00	0.00
ATOM	977	1HA	GLY	61	33.969	-8.531	-1.402	1.00	0.00
ATOM	978	2HA	GLY	61	34.912	-7.027	-1.281	1.00	0.00
ATOM	979	N	ILE	62	32.111	-7.077	0.387	1.00	0.00
ATOM	980	CA	ILE	62	31.538	-6.877	1.705	1.00	0.00
ATOM	981	C	ILE	62	31.237	-8.230	2.302	1.00	0.00
ATOM	982	O	ILE	62	30.619	-9.082	1.661	1.00	0.00
ATOM	983	CB	ILE	62	30.264	-6.015	1.642	1.00	0.00
ATOM	984	CG1	ILE	62	30.588	-4.622	1.096	1.00	0.00
ATOM	985	CG2	ILE	62	29.622	-5.914	3.017	1.00	0.00
ATOM	986	CD1	ILE	62	29.366	-3.790	0.781	1.00	0.00
ATOM	987	H	ILE	62	31.509	-7.074	-0.424	1.00	0.00
ATOM	988	HA	ILE	62	32.261	-6.407	2.371	1.00	0.00
ATOM	989	HB	ILE	62	29.562	-6.470	0.944	1.00	0.00
ATOM	990	1HG2	ILE	62	28.723	-5.301	2.955	1.00	0.00
ATOM	991	2HG2	ILE	62	29.358	-6.910	3.369	1.00	0.00
ATOM	992	3HG2	ILE	62	30.325	-5.457	3.714	1.00	0.00
ATOM	993	1HG1	ILE	62	31.191	-4.112	1.846	1.00	0.00
ATOM	994	2HG1	ILE	62	31.177	-4.759	0.189	1.00	0.00
ATOM	995	1HD1	ILE	62	29.676	-2.817	0.399	1.00	0.00
ATOM	996	2HD1	ILE	62	28.762	-4.299	0.029	1.00	0.00
ATOM	997	3HD1	ILE	62	28.776	-3.651	1.686	1.00	0.00
ATOM	998	N	PRO	63	31.766	-8.438	3.504	1.00	0.00
ATOM	999	CA	PRO	63	31.593	-9.682	4.241	1.00	0.00
ATOM	1000	C	PRO	63	30.208	-9.764	4.882	1.00	0.00
ATOM	1001	O	PRO	63	29.697	-8.763	5.395	1.00	0.00
ATOM	1002	CB	PRO	63	32.659	-9.772	5.320	1.00	0.00
ATOM	1003	CG	PRO	63	33.164	-8.363	5.491	1.00	0.00
ATOM	1004	CD	PRO	63	32.903	-7.674	4.031	1.00	0.00
ATOM	1005	1HD	PRO	63	32.576	-6.780	4.089	1.00	0.00
ATOM	1006	2HD	PRO	63	33.592	-7.854	3.399	1.00	0.00
ATOM	1007	1HG	PRO	63	32.611	-7.936	5.970	1.00	0.00
ATOM	1008	2HG	PRO	63	34.101	-8.398	5.492	1.00	0.00
ATOM	1009	1HB	PRO	63	32.144	-9.957	6.053	1.00	0.00
ATOM	1010	2HB	PRO	63	33.274	-10.223	4.910	1.00	0.00
ATOM	1011	HA	PRO	63	31.700	-10.461	3.629	1.00	0.00
ATOM	1012	N	PHE	64	29.608	-10.950	4.847	1.00	0.00
ATOM	1013	CA	PHE	64	28.281	-11.156	5.423	1.00	0.00
ATOM	1014	C	PHE	64	28.078	-12.628	5.755	1.00	0.00
ATOM	1015	O	PHE	64	28.870	-13.482	5.353	1.00	0.00
ATOM	1016	CB	PHE	64	27.198	-10.664	4.461	1.00	0.00
ATOM	1017	CG	PHE	64	27.174	-11.397	3.150	1.00	0.00
ATOM	1018	CD1	PHE	64	26.382	-12.524	2.984	1.00	0.00
ATOM	1019	CD2	PHE	64	27.943	-10.963	2.081	1.00	0.00
ATOM	1020	CE1	PHE	64	26.359	-13.199	1.778	1.00	0.00
ATOM	1021	CE2	PHE	64	27.921	-11.636	0.874	1.00	0.00
ATOM	1022	CZ	PHE	64	27.128	-12.756	0.724	1.00	0.00
ATOM	1023	H	PHE	64	30.082	-11.728	4.411	1.00	0.00
ATOM	1024	HD1	PHE	64	25.773	-12.874	3.817	1.00	0.00

ATOM	1025	HE1	PHE	64	28.530	-11.284	0.041	1.00	0.00
ATOM	1026	HZ	PHE	64	27.111	-13.288	-0.226	1.00	0.00
ATOM	1027	HE2	PHE	64	28.530	-11.284	0.041	1.00	0.00
ATOM	1028	HD2	PHE	64	28.570	-10.079	2.200	1.00	0.00
ATOM	1029	HA	PHE	64	28.193	-10.602	6.359	1.00	0.00
ATOM	1030	1HB	PHE	64	26.213	-10.792	4.908	1.00	0.00
ATOM	1031	2HB	PHE	64	27.356	-9.612	4.227	1.00	0.00
ATOM	1032	N	THR	65	27.010	-12.908	6.490	1.00	0.00
ATOM	1033	CA	THR	65	26.657	-14.264	6.876	1.00	0.00
ATOM	1034	C	THR	65	25.144	-14.312	7.083	1.00	0.00
ATOM	1035	O	THR	65	24.502	-13.270	7.253	1.00	0.00
ATOM	1036	CB	THR	65	27.400	-14.700	8.152	1.00	0.00
ATOM	1037	OG1	THR	65	27.175	-16.096	8.386	1.00	0.00
ATOM	1038	CG2	THR	65	26.912	-13.904	9.352	1.00	0.00
ATOM	1039	H	THR	65	26.418	-12.148	6.794	1.00	0.00
ATOM	1040	HG1	THR	65	27.639	-16.365	9.182	1.00	0.00
ATOM	1041	HA	THR	65	26.910	-14.954	6.071	1.00	0.00
ATOM	1042	HB	THR	65	28.468	-14.531	8.015	1.00	0.00
ATOM	1043	1HG2	THR	65	27.449	-14.226	10.244	1.00	0.00
ATOM	1044	2HG2	THR	65	27.093	-12.843	9.182	1.00	0.00
ATOM	1045	3HG2	THR	65	25.845	-14.073	9.490	1.00	0.00
ATOM	1046	N	VAL	66	24.568	-15.502	6.968	1.00	0.00
ATOM	1047	CA	VAL	66	23.133	-15.676	7.139	1.00	0.00
ATOM	1048	C	VAL	66	22.850	-15.875	8.619	1.00	0.00
ATOM	1049	O	VAL	66	23.307	-16.850	9.221	1.00	0.00
ATOM	1050	CB	VAL	66	22.607	-16.869	6.319	1.00	0.00
ATOM	1051	CG1	VAL	66	21.113	-17.051	6.542	1.00	0.00
ATOM	1052	CG2	VAL	66	22.903	-16.672	4.841	1.00	0.00
ATOM	1053	H	VAL	66	25.140	-16.307	6.756	1.00	0.00
ATOM	1054	HA	VAL	66	22.587	-14.781	6.840	1.00	0.00
ATOM	1055	HB	VAL	66	23.133	-17.772	6.629	1.00	0.00
ATOM	1056	1HG1	VAL	66	20.758	-17.899	5.955	1.00	0.00
ATOM	1057	2HG1	VAL	66	20.923	-17.237	7.599	1.00	0.00
ATOM	1058	3HG1	VAL	66	20.586	-16.149	6.231	1.00	0.00
ATOM	1059	1HG2	VAL	66	22.525	-17.524	4.277	1.00	0.00
ATOM	1060	2HG2	VAL	66	22.417	-15.761	4.492	1.00	0.00
ATOM	1061	3HG2	VAL	66	23.980	-16.589	4.693	1.00	0.00
ATOM	1062	N	TYR	67	22.158	-14.909	9.207	1.00	0.00
ATOM	1063	CA	TYR	67	21.819	-14.977	10.616	1.00	0.00
ATOM	1064	C	TYR	67	20.524	-15.780	10.770	1.00	0.00
ATOM	1065	O	TYR	67	20.451	-16.700	11.586	1.00	0.00
ATOM	1066	CB	TYR	67	21.677	-13.570	11.201	1.00	0.00
ATOM	1067	CG	TYR	67	21.368	-13.550	12.682	1.00	0.00
ATOM	1068	CD1	TYR	67	22.296	-13.998	13.610	1.00	0.00
ATOM	1069	CD2	TYR	67	20.149	-13.081	13.147	1.00	0.00
ATOM	1070	CE1	TYR	67	22.019	-13.982	14.963	1.00	0.00
ATOM	1071	CE2	TYR	67	19.860	-13.060	14.498	1.00	0.00
ATOM	1072	CZ	TYR	67	20.799	-13.511	15.403	1.00	0.00
ATOM	1073	OH	TYR	67	20.517	-13.492	16.750	1.00	0.00
ATOM	1074	H	TYR	67	21.861	-14.111	8.664	1.00	0.00
ATOM	1075	HH	TYR	67	21.238	-13.827	17.290	1.00	0.00
ATOM	1076	HD1	TYR	67	23.258	-14.368	13.255	1.00	0.00
ATOM	1077	HE1	TYR	67	22.758	-14.338	15.681	1.00	0.00
ATOM	1078	HE2	TYR	67	18.895	-12.688	14.843	1.00	0.00
ATOM	1079	HD2	TYR	67	19.411	-12.726	12.426	1.00	0.00
ATOM	1080	HA	TYR	67	22.604	-15.503	11.161	1.00	0.00
ATOM	1081	1HB	TYR	67	22.618	-13.048	11.019	1.00	0.00

ATOM	1082	2HB	TYR	67	20.875	-13.074	10.656	1.00	0.00
ATOM	1083	N	VAL	68	19.508	-15.443	9.976	1.00	0.00
ATOM	1084	CA	VAL	68	18.226	-16.143	10.024	1.00	0.00
ATOM	1085	C	VAL	68	17.973	-16.655	8.606	1.00	0.00
ATOM	1086	O	VAL	68	17.898	-15.867	7.661	1.00	0.00
ATOM	1087	CB	VAL	68	17.095	-15.218	10.511	1.00	0.00
ATOM	1088	CG1	VAL	68	15.767	-15.960	10.519	1.00	0.00
ATOM	1089	CG2	VAL	68	17.409	-14.676	11.897	1.00	0.00
ATOM	1090	H	VAL	68	19.627	-14.682	9.323	1.00	0.00
ATOM	1091	HA	VAL	68	18.273	-17.012	10.682	1.00	0.00
ATOM	1092	HB	VAL	68	17.028	-14.359	9.843	1.00	0.00
ATOM	1093	1HG1	VAL	68	14.979	-15.291	10.866	1.00	0.00
ATOM	1094	2HG1	VAL	68	15.535	-16.302	9.510	1.00	0.00
ATOM	1095	3HG1	VAL	68	15.834	-16.818	11.188	1.00	0.00
ATOM	1096	1HG2	VAL	68	16.600	-14.024	12.225	1.00	0.00
ATOM	1097	2HG2	VAL	68	17.513	-15.506	12.596	1.00	0.00
ATOM	1098	3HG2	VAL	68	18.340	-14.110	11.864	1.00	0.00
ATOM	1099	N	GLU	69	17.876	-17.975	8.474	1.00	0.00
ATOM	1100	CA	GLU	69	17.643	-18.661	7.194	1.00	0.00
ATOM	1101	C	GLU	69	16.306	-18.385	6.520	1.00	0.00
ATOM	1102	O	GLU	69	16.242	-18.199	5.304	1.00	0.00
ATOM	1103	CB	GLU	69	17.763	-20.177	7.369	1.00	0.00
ATOM	1104	CG	GLU	69	19.184	-20.673	7.597	1.00	0.00
ATOM	1105	CD	GLU	69	19.218	-22.164	7.785	1.00	0.00
ATOM	1106	OE1	GLU	69	18.173	-22.769	7.774	1.00	0.00
ATOM	1107	OE2	GLU	69	20.294	-22.712	7.829	1.00	0.00
ATOM	1108	H	GLU	69	17.968	-18.542	9.305	1.00	0.00
ATOM	1109	HA	GLU	69	18.381	-18.336	6.460	1.00	0.00
ATOM	1110	1HB	GLU	69	17.143	-20.449	8.223	1.00	0.00
ATOM	1111	2HB	GLU	69	17.359	-20.635	6.466	1.00	0.00
ATOM	1112	1HG	GLU	69	19.874	-20.392	6.802	1.00	0.00
ATOM	1113	2HG	GLU	69	19.481	-20.183	8.524	1.00	0.00
ATOM	1114	N	GLU	70	15.238	-18.438	7.308	1.00	0.00
ATOM	1115	CA	GLU	70	13.899	-18.211	6.806	1.00	0.00
ATOM	1116	C	GLU	70	13.075	-17.559	7.908	1.00	0.00
ATOM	1117	O	GLU	70	12.766	-18.175	8.934	1.00	0.00
ATOM	1118	CB	GLU	70	13.272	-19.526	6.338	1.00	0.00
ATOM	1119	CG	GLU	70	11.910	-19.373	5.676	1.00	0.00
ATOM	1120	CD	GLU	70	11.367	-20.702	5.229	1.00	0.00
ATOM	1121	OE1	GLU	70	12.031	-21.691	5.430	1.00	0.00
ATOM	1122	OE2	GLU	70	10.243	-20.744	4.790	1.00	0.00
ATOM	1123	H	GLU	70	15.364	-18.643	8.289	1.00	0.00
ATOM	1124	HA	GLU	70	13.933	-17.522	5.962	1.00	0.00
ATOM	1125	1HB	GLU	70	13.969	-19.978	5.632	1.00	0.00
ATOM	1126	2HB	GLU	70	13.179	-20.165	7.216	1.00	0.00
ATOM	1127	1HG	GLU	70	11.174	-18.875	6.307	1.00	0.00
ATOM	1128	2HG	GLU	70	12.117	-18.754	4.804	1.00	0.00
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