

Figure S1

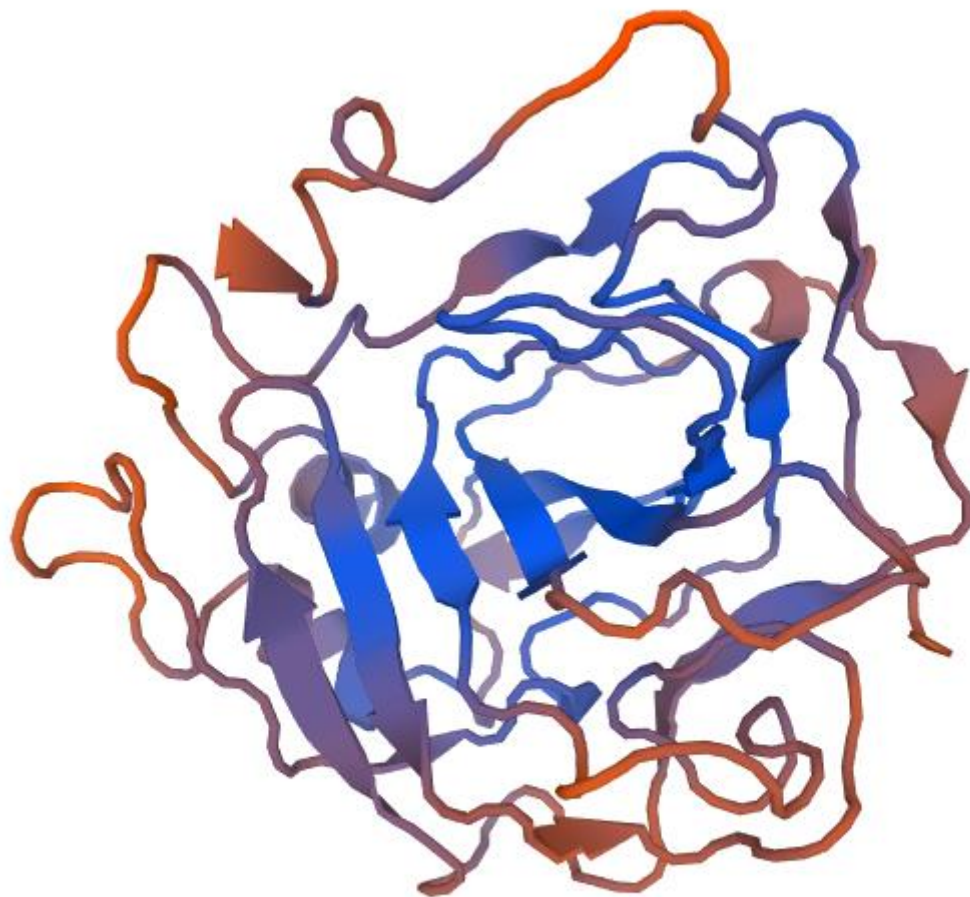


Table S1

SMILES	pKi	Docking Score
<chem>COc1ccc(CC(=O)[N-]c2nnc(S([NH-])(=O)=O)s2)cc1</chem>	9.29	-9.25
<chem>[NH-]S(=O)(=O)c1nnc([N-]C(=O)Cc2ccccc2Br)s1</chem>	9.08	-10.49
<chem>[NH-]S(=O)(=O)c1nnc([N-]C(=O)Cc2ccc(Cl)cc2)s1</chem>	9.02	-13.41
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(Cl)cc2)c(F)c1</chem>	8.92	-9.58
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccccc2Br)c(F)c1</chem>	8.80	-10.47
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(Cl)cc2)cc1</chem>	8.57	-9.63
<chem>NS(=O)(=O)c1ccc(CCNC(=O)Cc2ccccc2Br)cc1</chem>	8.48	-10.98
<chem>NS(=O)(=O)c1ccc(CNC(=O)Cc2ccc(F)cc2)cc1</chem>	8.43	-10.32
<chem>COc1ccc(CC(=O)Nc2ccc(S(N)(=O)=O)cc2F)cc1</chem>	8.39	-9.83
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(F)cc2)c(Cl)c1</chem>	8.15	-9.35
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(Cl)cc2)c(Br)c1</chem>	8.15	-9.74
<chem>COc1ccc(CC(=O)Nc2ccc(S(N)(=O)=O)cc2Br)cc1</chem>	8.14	-9.99
<chem>COc1ccc(CC(=O)NCc2ccc(S(N)(=O)=O)cc2)cc1</chem>	8.13	-9.93
<chem>COc1ccc(CC(=O)NCCc2ccc(S(N)(=O)=O)cc2)cc1</chem>	8.12	-9.57
<chem>NS(=O)(=O)c1nnc(NC(=O)Cc2ccc(F)cc2)s1</chem>	8.12	-11.81
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(Cl)cc2)c(Cl)c1</chem>	8.11	-10.68
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccccc2Br)c(Cl)c1</chem>	8.11	-9.57
<chem>COc1ccc(CC(=O)Nc2ccc(S(N)(=O)=O)cc2Cl)cc1</chem>	8.10	-10.06
<chem>COc1ccc(CC(=O)Nc2ccc(S(N)(=O)=O)cc2)cc1</chem>	8.10	-9.97
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(F)cc2)c(F)c1</chem>	8.08	-9.32
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(F)cc2)cc1</chem>	8.07	-9.35
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccccc2Br)cc1</chem>	8.05	-9.76
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccc(F)cc2)c(Br)c1</chem>	8.05	-9.49
<chem>NS(=O)(=O)c1ccc(CNC(=O)Cc2ccccc2Br)cc1</chem>	8.05	-10.81
<chem>NS(=O)(=O)c1ccc(CCNC(=O)Cc2ccc(F)cc2)cc1</chem>	8.04	-10.36
<chem>NS(=O)(=O)c1ccc(NC(=O)Cc2ccccc2Br)c(Br)c1</chem>	7.96	-9.64
<chem>NS(=O)(=O)c1ccc(CCNC(=O)Cc2ccc(Cl)cc2)cc1</chem>	7.93	-10.29
<chem>NS(=O)(=O)c1ccc(CNC(=O)Cc2ccc(Cl)cc2)cc1</chem>	7.90	-10.63
<chem>O=C(N/N=C/c1ccccc1)Nc1n[n-]c(=S)s1</chem>	7.68	-9.96
<chem>COc1cccc(/C=N/NC(=O)Nc2n[n-]c(=S)s2)c1</chem>	7.46	-9.99
<chem>O=C(NO)[C@H]1CC(c2ccc(OCc3ccccc3)cc2)=NO1</chem>	7.40	-11.43
<chem>O=C(N/N=C/c1ccc(Br)c1)Nc1n[n-]c(=S)s1</chem>	7.37	-10.48
<chem>CC(C)C/C=N\NC(=O)Nc1n[n-]c(=S)s1</chem>	7.28	-8.6
<chem>CC(=O)Nc1nnc(S(N)(=O)=O)s1</chem>	7.21	-9.41
<chem>O=C(N/N=C/c1ccc(Cl)cc1)Nc1n[n-]c(=S)s1</chem>	7.19	-8.99
<chem>CCOc1ccc(C2=NO[C@@H](C(=O)NO)C2)cc1</chem>	7.15	-9.5
<chem>NS(=O)(=O)c1ccc(N2CCCCS2(=O)=O)cc1</chem>	7.14	-9.08
<chem>O=C(N/N=C1/C(=O)Nc2ccc(Br)cc21)Nc1n[n-]c(=S)s1</chem>	7.14	-9.94
<chem>CC(=O)/N=c1\sc(S(N)(=O)=O)nn1C</chem>	7.13	-7.8
<chem>O=C(N/N=C1/C(=O)Nc2ccccc21)Nc1n[n-]c(=S)s1</chem>	7.10	-9.97
<chem>Cc1onc(-c2ccccc2)c1-c1ccc(S(N)(=O)=O)cc1</chem>	7.08	-10.16
<chem>NS(=O)(=O)c1ccc(S(=O)(=O)Nc2ccc3c(Cl)c[nH]c23)cc1</chem>	7.07	-11.22
<chem>CC1(C)O[C@@H]2CO[C@@]3(COS(N)(=O)=O)OC(C)(C)O[C@H]3[C@@H]2O1</chem>	7.07	-8.76

CCN[C@H]1CN(CCCOC)S(=O)(=O)c2sc(S(N)(=O)=O)cc21	7.06	-8.82
CCN1CCC[C@H]1CNC(=O)c1cc(S(N)(=O)=O)ccc1OC	7.06	-10.26
CCOc1ccc2nc(S(N)(=O)=O)sc2c1	7.05	-8.94
Nc1ccc(S(=O)(=O)Nc2nnc(S(N)(=O)=O)s2)cc1	7.05	-10.47
Cc1ccc(-c2cc(C(F)(F)F)nn2-c2ccc(S(N)(=O)=O)cc2)cc1	7.04	-10.03
CCN[C@H]1C[C@H](C)S(=O)(=O)c2sc(S(N)(=O)=O)cc21	7.03	-10.19
NS(=O)(=O)Cc1nnc(NS(=O)(=O)c2ccccc2)s1	7.03	-11.63
CCOc1ccccc1C1=NO[C@@H](C(=O)NO)C1	7.03	-8.96
C/C(=N\NC(=O)Nc1n[n-]c(=S)s1)c1ccc(Cl)cc1	7.02	-9.54
NNC(=O)Nc1n[n-]c(=S)s1	6.90	-6.93
NS(=O)(=O)c1cc(Cl)c(Cl)c(S(N)(=O)=O)c1	6.89	-9.18
NS(=O)(=O)c1ccc(CCNS(=O)(=O)c2ccc([N+](=O)[O-])cc2CO)cc1	6.87	-10.66
NS(=O)(=O)c1cc2c(cc1Cl)NCNS2(=O)=O	6.87	-9.19
C[C@@]1(C(=O)NO)CC(c2ccccc2F)=NO1	6.85	-7.97
C[C@@]1(C(=O)NO)CC(c2ccccc(F)c2)=NO1	6.74	-7.92
O=C(NO)[C@H]1CC(c2ccc(Cl)cc2)=NO1	6.72	-9.66
Nc1ccc(S(=O)(=O)NCCc2ccc(S(N)(=O)=O)cc2)cc1	6.72	-11.65
Nc1ccc(S(=O)(=O)NCc2ccc(S(N)(=O)=O)cc2)cc1	6.61	-10.11
O=C(NO)[C@H]1CC(c2ccccc2Cl)=NO1	6.58	-9.39
O=C(NO)[C@H]1CC(c2ccccc(Cl)c2)=NO1	6.57	-9.36
Nc1ccc(S(=O)(=O)Nc2ccc(S(N)(=O)=O)cc2)cc1	6.44	-10.01
C[C@@]1(C(=O)NO)CC(c2ccccc(Cl)c2)=NO1	6.44	-8.17
O=C(NO)[C@H]1CC(c2ccccc2)=NO1	6.37	-9.17
Nc1nnc(S(N)(=O)=O)s1	6.27	-8.77
C[C@@]1(C(=O)NO)CC(c2ccccc(Br)c2)=NO1	6.21	-8.29
Cn1nc(S(N)(=O)=O)sc1=N	6.19	-7.93
Nc1nccc(Nc2ccc(S(N)(=O)=O)cc2)n1	6.09	-8.79
Nc1cc(Cl)c(S(N)(=O)=O)cc1S(N)(=O)=O	6.09	-8.9
Nc1cc(C(F)(F)F)c(S(N)(=O)=O)cc1S(N)(=O)=O	6.07	-8.52
NS(=O)(=O)Cc1noc2ccccc12	6.06	-9.89
Nc1ccc(S(N)(=O)=O)cc1Cl	5.16	-8.18
NCc1ccc(S(N)(=O)=O)cc1	5.14	-8.46
Nc1ccc(S(N)(=O)=O)cc1F	5.09	-8
Nc1ccc(S(N)(=O)=O)cc1Br	5.07	-8.27
NCCc1ccc(S(N)(=O)=O)cc1	5.03	-8.51
NS(=O)(=O)c1cc(Cl)cc(Cl)c1O	5.03	-8.53
Nc1ccccc(S(N)(=O)=O)c1	4.59	-8.22
Cc1ccc(S(N)(=O)=O)cc1	4.35	-8.14
Nc1ccc(S(N)(=O)=O)cc1	4.24	-8.12
NS(=O)(=O)c1ccccc(S(N)(=O)=O)c1	4.20	-8.77
NS(=O)(=O)c1ccc(CCO)cc1	4.18	-8.02
NS(=O)(=O)c1ccc(CO)cc1	4.14	-8.16
NS(=O)(=O)c1ccc(O)cc1	4.13	-8.01
NS(=O)(=O)c1ccc(C(=O)O)cc1	4.08	-8.19

Table S2

SMILES	Docking Score
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1ccccc1C(=O)c1ccccc1</chem>	-11.1
<chem>C(=Cc1ccccc1)C[N@H+]1CC[N@@H+](C(c2ccccc2)c2ccccc2)CC1</chem>	-11.01
<chem>Cc1cn(-c2cc(NC(=O)c3ccc(C)c(Nc4ncccc(-c5cccn5)n4)c3)cc(C(F)(F)F)c2)cn1</chem>	-10.81
<chem>c1ccc(-c2ccc([C@H](c3ccccc3)n3ccnc3)cc2)cc1</chem>	-10.76
<chem>CCCc1nn(C)c2c(=O)nc(-c3cc(S(=O)(=O)N4CC[NH+](C)CC4)ccc3OCC)[nH]c12</chem>	-10.43
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)C(c1ccccc1)c1ccccc1</chem>	-10.41
<chem>O=C([O-])c1cc(/N=N/c2ccc(S(=O)(=O)Nc3cccn3)cc2)ccc1O</chem>	-10.32
<chem>Cc1ccc(C)c(OCCCC(C)(C)C(=O)Nc2ccc(S(=O)(=O)[N-]c3ncccn3)cc2)c1</chem>	-10.29
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1ccccc1C(=O)c1ccccc1</chem>	-10.29
<chem>Cc1ccc(-c2cc(C(F)(F)F)nn2-c2ccc(S(N)(=O)=O)cc2)cc1</chem>	-10.18
<chem>CC(C)(O)c1ccccc1CC[C@H](SCC1(CC(=O)[O-])CC1)c1ccc(/C=C/c2ccc3ccc(Cl)cc3n2)c1</chem>	-9.94
<chem>Clc1ccc(CO[C@H](Cn2ccnc2)c2ccc(Cl)cc2Cl)cc1</chem>	-9.86
<chem>C#C[C@]1(O)CC[C@H]2[C@@H]3CCC4=Cc5oncc5C[C@]4(C)[C@H]3CC[C@@]21C</chem>	-9.83
<chem>Clc1ccc(CO[C@H](Cn2ccnc2)c2ccc(Cl)cc2Cl)c(Cl)c1</chem>	-9.83
<chem>CC[C@@H](C)n1ncn(-c2ccc(N3CCN(c4ccc(OC[C@H]5CO[C@](Cn6cncn6)(c6ccc(Cl)cc6Cl)O5)cc4)CC3)cc2)c1=O</chem>	-9.81
<chem>Nc1ccccc1C(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-9.69
<chem>O=C(NC1CCCCC1)c1cccn1</chem>	-9.65
<chem>O=S(=O)(NCCc1ccccc1)NCCc1ccccc1</chem>	-9.64
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1cccc([N+](=O)[O-])c1</chem>	-9.64
<chem>CC(C)C[C@H]1C(=O)N2CCC[C@H]2[C@]2(O)O[C@](NC(=O)[C@@H]3C=C4c5ccccc6[nH]c(Br)c(c56)C[C@H]4[N@@H+](C)C3)(C(C)C)C(=O)N12</chem>	-9.59
<chem>COc1ccc(CC[N@@H+](C)CCC[C@](C#N)(c2ccc(OC)c(OC)c2)C(C)C)c1OC</chem>	-9.57
<chem>Clc1ccccc1C(c1ccccc1)(c1ccccc1)n1ccn1</chem>	-9.56
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1ccccc1Cl</chem>	-9.54
<chem>Nc1ccc(S(=O)(=O)Nc2ncccn2)cc1</chem>	-9.53
<chem>Nc1ccccc1C(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-9.53
<chem>Nc1ccc(C(=O)Nc2ccc(S(=O)(=O)[N-]c3nccs3)cc2)c1</chem>	-9.51
<chem>CSelnc2cc(Oc3ccccc(Cl)c3Cl)c(Cl)cc2[nH]1</chem>	-9.49
<chem>O=S(=O)(NC1CCCCC1)NC1CCCCC1</chem>	-9.47
<chem>CC(C)(C)C(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-9.45
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)C(c1ccccc1)c1ccccc1</chem>	-9.43
<chem>CC(=O)N1CCN(c2ccc(OC[C@H]3CO[C@](Cn4ccnc4)(c4ccc(Cl)cc4Cl)O3)cc2)CC1</chem>	-9.41
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1ccccc1</chem>	-9.38
<chem>NS(=O)(=O)c1cc2c(cc1Cl)NCNS2(=O)=O</chem>	-9.31

<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1cccc1</chem>	-9.3
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1cccc1Cl</chem>	-9.29
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1cccc([N+](=O)[O-])c1</chem>	-9.28
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1ccc(Cl)cc1</chem>	-9.22
<chem>CCCC(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-9.2
<chem>Nc1cccc(C(=O)Nc2ccc(S(=O)(=O)[N-]c3ncccn3)cc2)c1</chem>	-9.18
<chem>CC(C)C(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-9.16
<chem>CC(C)(C)C(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-9.14
<chem>COC(=O)CCCNS(=O)(=O)NCCc1cccc1</chem>	-9.12
<chem>O=S(=O)(NCCc1cccc1)Oc1cccc1O</chem>	-9.1
<chem>COC(=O)CCNS(=O)(=O)NCCc1cccc1</chem>	-9.1
<chem>CCCSc1ccc2nc(NC(=O)OC)[nH]c2c1</chem>	-9.09
<chem>CCC(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-9.07
<chem>Cc1ccc(C)c(OCCCC(C)(C)C(=O)Nc2ccc(S(=O)(=O)[N-]c3nccs3)cc2)c1</chem>	-9.07
<chem>CCCC(CCC)C(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-9.07
<chem>O=[N+](O)c1nccn1CC(O)=NCCc1cccc1</chem>	-9.02
<chem>CCC(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-9.01
<chem>CCCC(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-9
<chem>CC(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-8.99
<chem>COC(=O)CCNS(=O)(=O)NCC12C[C@H]3C[C@@H](C1)C[C@@H](C2)C3</chem>	-8.97
<chem>CC(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-8.91
<chem>CCCC(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-8.86
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1ccc(Cl)cc1</chem>	-8.85
<chem>CCCCC(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-8.84
<chem>CCCCc1ncc(/C=C\Cc2ccs2)C(=O)[O-]n1Cc1ccc(C(=O)[O-])cc1</chem>	-8.81
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1</chem>	-8.81
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1</chem>	-8.8
<chem>CCCC(=O)Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-8.75
<chem>CCCC(CCC)C(=O)Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1</chem>	-8.68
<chem>Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1</chem>	-8.68
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1ccc([N+](=O)[O-])cc1</chem>	-8.6
<chem>Fc1ccc([C@@H]2CC[NH2+]C[C@H]2COc2ccc3c(c2)OCO3)cc1</chem>	-8.56
<chem>COc1ccc(C(=O)Nc2ccc(S(=O)(=O)[N-]c3nccs3)cc2)cc1</chem>	-8.56
<chem>COC(=O)CCCNS(=O)(=O)N[C@@H](C)c1cccc1</chem>	-8.54
<chem>C[C@H](NC(=O)C(C)(C)OC(C)(C)C(=O)N[C@@H](C)c1cccc1)c1cccc1</chem>	-8.53
<chem>COC(=O)CC[C@H](NS(=O)(=O)NCCc1cccc1)C(=O)OC</chem>	-8.5
<chem>C=C1[C@@H](n2nc3c(=O)nc(N)[nH]c32)C[C@H](O)[C@H]1CO</chem>	-8.46
<chem>CC(C)CNS(=O)(=O)NCC(C)C</chem>	-8.45
<chem>O=C(Nc1ccc(S(=O)(=O)[N-]c2ncccn2)cc1)c1ccc(O)cc1</chem>	-8.43
<chem>CCCCCNS(=O)(=O)NCCCCC</chem>	-8.41
<chem>COC(=O)CCCNS(=O)(=O)NCCc1cccc1</chem>	-8.39
<chem>O=S(=O)(NCc1ccc(F)cc1)Oc1cccc1O</chem>	-8.36
<chem>Cc1ccc(C)c(OCCCC(C)(C)C(=O)Nc2c(C)cccc2C)c1</chem>	-8.33

C#C[C@]1(O)CC[C@H]2[C@@H]3CCc4cc(OC5CCCC5)ccc4[C@H]3C C[C@@]21C	-8.32
COc1ccc(C(=O)Nc2ccc(S(=O)(=O)[N-]c3nccn3)cc2)cc1	-8.24
COC(=O)[C@H](Cc1ccccc1)NS(=O)(=O)NCC(C)C	-8.23
COC(=O)CCNS(=O)(=O)NCc1ccc(F)cc1	-8.23
CCCCc1oc2ccccc2c1C(=O)c1cc(I)c(OCC[NH+](CC)CC)c(I)c1	-8.2
O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1ccc(O)cc1	-8.19
CCOC(=O)[C@H](CCc1ccccc1)[NH2+][C@@H](C)C(=O)N1CCC[C@ H]1C(=O)[O-]	-8.18
Cc1ccc(C)c1OC[C@H](C)NC(=O)[C@@H]1CCCN1C(=O)[C@H](C)[NH2+][C@@H](CCc1ccccc1)C(=O)[O-]	-8.18
Nc1ccc(S(N)(=O)=O)cc1	-8.17
O=C(/C=C/c1ccc(O)c(O)c1)Nc1ccc(S(=O)(=O)[N-]c2nccn2)cc1	-8.14
COC(=O)CCCNS(=O)(=O)NC(=O)[C@H]([NH3+])CC(C)C	-8.13
Cn1cc(NC(=O)C(O)(c2ccccc2)c2ccccc2)c(=O)n1-c1ccccc1	-8.12
CCCN(C(=O)c1ccccc1)	-8.08
COC(=O)CC[C@@H](NS(=O)(=O)NCc1ccccc1)C(=O)OC	-8.07
CCOC(=O)[C@H](CCc1ccccc1)[NH2+][C@H]1CCc2ccccc2N(CC(=O)[O-])C1=O	-8.07
COC(=O)CCNS(=O)(=O)N[C@@H](C)c1ccccc1	-8.07
COC(=O)CCCNS(=O)(=O)N[C@H](C(=O)OC)C(C)C	-8.05
Cc1ccccc1- c1cc(N2CC[NH+](C)CC2)ncc1N(C)C(=O)C(C)(C)c1cc(C(F)(F)F)cc(C(F) (F)F)c1	-8.05
C[C@@H](NC(=O)C(C)(C)OC(C)(C)C(=O)N[C@H](C)c1ccccc1)c1cccc c1	-8.04
Cc1ccc(C)c1NC(=O)[C@@H]1CCCN1C(=O)[C@H](C)[NH2+][C@@ H](CCc1ccccc1)C(=O)[O-]	-8.03
CCCN(CCC)C(=O)c1ccccc1	-8.03
CC(C)NS(=O)(=O)NC(C)C	-8.02
CCCCNS(=O)(=O)NCCCC	-8.01
C[C@H](NC(=O)C(C)(C)OC(C)(C)C(=O)N[C@H](C)c1ccccc1)c1ccccc1	-8
COC(=O)[C@H](NS(=O)(=O)NCC(C)C)C(C)C	-7.97
O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1ccc([N+](=O)[O-])cc1	-7.96
O=C(Nc1ccc(S(=O)(=O)[N-]c2nccs2)cc1)c1cc(O)c(O)c(O)c1	-7.93
CCCNS(=O)(=O)NCCC	-7.92
O=C(Nc1ccc(S(=O)(=O)[N-]c2nccn2)cc1)c1cc(O)c(O)c(O)c1	-7.91
CCCCCNS(=O)(=O)NCCCC(=O)OC	-7.9
CCCCCNS(=O)(=O)NCCC(=O)OC	-7.85
Cc1ccc(C)c(OCCCC(C)(C)C(=O)NCC2CCCC2)c1	-7.81
CC(C)N=c1cc2n(-c3ccc(Cl)cc3)c3ccccc3nc-2cc1Nc1ccc(Cl)cc1	-7.74
COC(=O)[C@H](Cc1ccccc1)NS(=O)(=O)NCc1ccc(F)cc1	-7.74
CCCCNS(=O)(=O)NCCCC(=O)OC	-7.69
COC(=O)CCCNS(=O)(=O)N[C@@H](Cc1ccccc1)C(=O)OC	-7.67
OC(Cn1cnen1)(Cn1cnen1)c1ccc(F)cc1F	-7.66
COC(=O)[C@@H](NS(=O)(=O)NCc1ccc(F)cc1)C(C)C	-7.64
COC(=O)CCCNS(=O)(=O)NCC(C)C	-7.63
Cc1ccc(C)c(OCCCC(C)(C)C(=O)N[C@@H](C)COc2c(C)cccc2C)c1	-7.63

<chem>C[C@H](NC(=O)COCC(=O)N[C@H](C)c1ccccc1)c1ccccc1</chem>	-7.59
<chem>Cc1ccccc1CNC(=O)C(C)(C)OC(C)(C)C(=O)NCc1ccccc1C</chem>	-7.58
<chem>Cc1ccc(C)c(OCCCC(C)(C)C(=O)NCc2ccccc2)c1</chem>	-7.58
<chem>COC(=O)CCNS(=O)(=O)NCC(C)C</chem>	-7.57
<chem>COC(=O)CCCNS(=O)(=O)NCC(N)=O</chem>	-7.55
<chem>COC(=O)CC[C@@H](NS(=O)(=O)NCC(C)C)C(=O)OC</chem>	-7.55
<chem>CC(C)(OC(C)(C)C(=O)NCc1ccccc1)C(=O)NCc1ccccc1</chem>	-7.52
<chem>CC(C)(OC(C)(C)C(=O)NCCc1ccccc1)C(=O)NCCc1ccccc1</chem>	-7.46
<chem>C[NH2+][C@@]1(c2ccccc2C1)CCCC1=O</chem>	-7.45
<chem>CCCC(CCC)C(=O)OC(C)(C)C(=O)Nc1c(C)cccc1C</chem>	-7.44
<chem>Cc1ccccc1CNC(=O)COCC(=O)NCc1ccccc1C</chem>	-7.4
<chem>C[C@H]([NH2+][C@@H](CCc1ccccc1)C(=O)[O-])C(=O)N1CCC[C@H]1C(=O)[O-]</chem>	-7.36
<chem>CC(=O)NCCc1c[nH]cn1</chem>	-7.36
<chem>C[C@H](NC(=O)C(C)(C)OC(=O)c1ccc(O)cc1)c1ccccc1</chem>	-7.29
<chem>C[C@@H](NC(=O)/C=C/c1ccc(O)c(O)c1)c1ccccc1</chem>	-7.27
<chem>C[C@H](NC(=O)/C=C/c1ccc(O)c(O)c1)c1ccccc1</chem>	-7.27
<chem>COc1cc(N)c(Cl)cc1C(=O)N[C@@H]1CC[N@H+](CCCOc2ccc(F)cc2)C[C@@H]1OC</chem>	-7.26
<chem>COC(=O)CC[C@@H](NS(=O)(=O)NCC(N)=O)C(=O)OC</chem>	-7.25
<chem>Cc1ccc(C)c(OCCCC(C)(C)C(=O)NCCc2ccccc2)c1</chem>	-7.25
<chem>C[C@H](NC(=O)C(C)(C)OC(=O)c1ccc(O)cc1)c1ccccc1</chem>	-7.25
<chem>CCCC(CCC)C(=O)OC(C)(C)C(=O)N[C@H](C)c1ccccc1</chem>	-7.24
<chem>CC[NH+](CC)CCOC(=O)C1(C2CCCCC2)CCCCC1</chem>	-7.22
<chem>CCCC(CCC)C(=O)OC(C)(C)C(=O)NCC1CCCCC1</chem>	-7.21
<chem>CCCCCCNS(=O)(=O)N[C@H](CCC(=O)OC)C(=O)OC</chem>	-7.19
<chem>COc1ccc2c(c1)c(CC(=O)[O-])c(C)n2C(=O)c1ccc(Cl)cc1</chem>	-7.17
<chem>Nc1nc(=O)c2nnc(COCCO)c2[nH]1</chem>	-7.16
<chem>COC(=O)CC[C@@H](NS(=O)(=O)N[C@H](C)c1ccccc1)C(=O)OC</chem>	-7.15
<chem>CN1C(=O)[C@]2(NC(=O)c3ccccc3N2)c2ccccc21</chem>	-7.15
<chem>COC(=O)CCCNS(=O)(=O)NCC(N)=O</chem>	-7.14
<chem>Cc1cccc(C)c1OC[C@H](C)NC(=O)/C=C/c1ccc(O)c(O)c1</chem>	-7.14
<chem>CC[NH+](CC)CC(=O)Nc1c(C)cccc1C</chem>	-7.13
<chem>C[C@@H](NC(=O)c1ccccc1)c1ccccc1</chem>	-7.11
<chem>O=C(NCCc1ccccc1)c1ccc(F)cc1</chem>	-7.09
<chem>CC(C)[NH2+][C[C@H](O)COc1ccc2ccccc12</chem>	-7.09
<chem>C[C@H](NC(=O)c1ccc(F)cc1)c1ccccc1</chem>	-7.07
<chem>O=C(/C=C/c1ccc(O)c(O)c1)NCCc1ccccc1</chem>	-7.05
<chem>O=C(COCC(=O)NCc1ccccc1)NCc1ccccc1</chem>	-7.04
<chem>CC(C)(OC(=O)c1ccc(O)cc1)C(=O)NCc1ccccc1</chem>	-7.04
<chem>O=C(NCCc1ccccc1)c1ccccc1</chem>	-7.03
<chem>CCCC(CCC)C(=O)OC(C)(C)C(=O)NCc1ccccc1</chem>	-7.03
<chem>COCCOC(=O)C1=C(C)NC(C)=C(C(=O)OC(C)C)[C@H]1c1cccc([N+](=O)[O-])c1</chem>	-7.02
<chem>COC(=O)CCCNS(=O)(=O)Oc1ccccc1O</chem>	-7.01
<chem>COC(=O)CCCNS(=O)(=O)N[C@@H](C)C(=O)OC</chem>	-6.98
<chem>O=C(COCC(=O)NCCc1ccccc1)NCCc1ccccc1</chem>	-6.98

<chem>CCCC(CCC)C(=O)OC(C)(C)C(=O)NCCc1ccccc1</chem>	-6.94
<chem>CCCCNC(=O)NS(=O)(=O)c1ccc(C)cc1</chem>	-6.92
<chem>CN1C(=O)CN=C(c2ccccc2)c2cc(Cl)ccc21</chem>	-6.91
<chem>CC(C)(OC(C)(C)C(=O)NCc1ccc(F)cc1)C(=O)NCc1ccc(F)cc1</chem>	-6.9
<chem>COC(=O)CCCNS(=O)(=O)NCC(=O)OC</chem>	-6.9
<chem>COC(=O)CC[C@H](NS(=O)(=O)NC(=O)[C@H]([NH3+])CC(C)C)C(=O)OC</chem>	-6.89
<chem>COC(=O)CC[C@@H](NS(=O)(=O)NCC(N)=O)C(=O)OC</chem>	-6.88
<chem>CCCNC(=O)NS(=O)(=O)c1ccc(Cl)cc1</chem>	-6.88
<chem>O=C1NC(=O)C(c2ccccc2)(c2ccccc2)N1</chem>	-6.88
<chem>O=C(COCC(=O)NCc1ccc(F)cc1)NCc1ccc(F)cc1</chem>	-6.86
<chem>O=S(=O)(Nc1ccccc1)Nc1ccccc1</chem>	-6.84
<chem>CCCCNS(=O)(=O)N[C@@H](CCC(=O)OC)C(=O)OC</chem>	-6.83
<chem>CC(C)(OC(=O)c1ccc(O)cc1)C(=O)NCCc1ccccc1</chem>	-6.82
<chem>CCCC(CCC)C(=O)OC(C)(C)C(=O)N[C@@H](C)c1ccccc1</chem>	-6.8
<chem>CCCC(CCC)C(=O)N[C@@H](C)COc1c(C)cccc1C</chem>	-6.79
<chem>O=C(/C=C/c1ccc(O)c(O)c1)NCC1CCCCC1</chem>	-6.77
<chem>O=C(NC1ccccc1)c1ccc(F)cc1</chem>	-6.76
<chem>O=C(NC1ccccc1)c1ccccc1</chem>	-6.74
<chem>COC(=O)CC[C@@H](NS(=O)(=O)N[C@H](C(=O)OC)C(C)C)C(=O)OC</chem>	-6.66
<chem>CCC1(c2ccccc2)C(=O)NC(=O)NC1=O</chem>	-6.6
<chem>COc1cc2nc(N3CCN(C(=O)[C@@H]4COc5ccccc5O4)CC3)nc(N)c2cc1O</chem>	-6.57
<chem>O=C(NC1CCCCC1)c1ccccc1</chem>	-6.55
<chem>C[C@@H](c1ccccc1)N1C(=O)C(C)(C)OS1(=O)=O</chem>	-6.54
<chem>NC(=O)N1c2ccccc2CC(=O)c2ccccc21</chem>	-6.52
<chem>CC1(C)OS(=O)(=O)N(c2ccccc2)C1=O</chem>	-6.51
<chem>CCCC(CCC)C(=O)N(c1ccccc1)c1ccccc1</chem>	-6.48
<chem>CCCC(CCC)C(=O)NCCc1ccccc1</chem>	-6.44
<chem>O=C(NC1CCCCC1)c1ccc(F)cc1</chem>	-6.36
<chem>Cc1cccc(C)c1NC(=O)/C=C/c1ccc(O)c(O)c1</chem>	-6.35
<chem>Cn1cc(NC(=O)C(C)(C)O)c(=O)n1-c1ccccc1</chem>	-6.34
<chem>CCCC(CCC)C(=O)NC1CCCCC1</chem>	-6.32
<chem>CCCCCCNC(=O)c1ccccc1</chem>	-6.29
<chem>CCCCCCNC(=O)c1ccccc1</chem>	-6.27
<chem>C[NH2+][C@H](Cc1c[nH]c2ccccc12)C(=O)[O-]</chem>	-6.27
<chem>O=C([O-])c1ccccc1[C@H]1COc2ccccc2C1</chem>	-6.26
<chem>COC(=O)CC[C@H](NS(=O)(=O)N[C@@H](Cc1ccccc1)C(=O)OC)C(=O)OC</chem>	-6.24
<chem>O=C(NC1CCCCC1)c1ccccc1</chem>	-6.19
<chem>O=C(NC1CCCCC1)c1ccc(F)cc1</chem>	-6.19
<chem>COC(=O)CC[C@H](NS(=O)(=O)NCC(=O)OC)C(=O)OC</chem>	-6.18
<chem>CCCCCCNC(=O)c1ccc(F)cc1</chem>	-6.18
<chem>Cc1ccc(C)c(OCCCC(C)(C)C(=O)[O-])c1</chem>	-6.17
<chem>CC1(C)CC2(C(N)=O)CCC1CC2</chem>	-6.17
<chem>CCCCCCNC(=O)c1ccc(F)cc1</chem>	-6.13

<chem>O=C(/C=C/c1ccc(O)c(O)c1)Oc1ccccc1</chem>	-6.1
<chem>CCC[C@H](C)C1(CC)C(=O)NC(=O)NC1=O</chem>	-6.01
<chem>CC(C)Cc1ccc([C@@H](C)C(=O)[O-])cc1</chem>	-6
<chem>COC(=O)CC[C@H](NS(=O)(=O)N[C@H](C)C(=O)OC)C(=O)OC</chem>	-5.98
<chem>CCCCNc1ccc(C(=O)OCC[NH+](C)C)cc1</chem>	-5.94
<chem>Cc1cccc(C)c1OC[C@H](C)[NH3+]</chem>	-5.92
<chem>CCCC(CCC)C(=O)Nc1ccccc1</chem>	-5.89
<chem>O=C(Nc1ccccc1)c1ccccc1</chem>	-5.81
<chem>O=C(Nc1ccccc1)c1ccc(F)cc1</chem>	-5.8
<chem>CC(C)(C)OC(=O)/C=C/c1ccc(O)c(O)c1</chem>	-5.73
<chem>CC(C)CNC(=O)c1ccccc1</chem>	-5.71
<chem>COC(=O)C1=C(C)NC(C)=C(C(=O)OC)C1c1ccccc1[N+](=O)[O-]</chem>	-5.69
<chem>CCCCNIC(=O)C(C)(C)OS1(=O)=O</chem>	-5.66
<chem>CCCCNC(=O)c1ccccc1</chem>	-5.65
<chem>CCCCNC(=O)c1ccccc1</chem>	-5.64
<chem>CC(C)CNC(=O)c1ccc(F)cc1</chem>	-5.61
<chem>COc1cc2c(c(OC)c1OC)-c1ccc(OC)c(=O)cc1[C@H](NC(C)=O)CC2</chem>	-5.58
<chem>CCC1(CC)C(=O)NC(=O)NC1=O</chem>	-5.55
<chem>NC(=O)NCCC[C@H]([NH3+])C(=O)[O-]</chem>	-5.54
<chem>CCCCNC(=O)c1ccc(F)cc1</chem>	-5.51
<chem>CCCCNC(=O)c1ccc(F)cc1</chem>	-5.51
<chem>Cc1ccc1C(=O)N[C@H](C)C(C)(C)C</chem>	-5.49
<chem>CC(C)NC(=O)c1ccccc1</chem>	-5.45
<chem>CC(C)(O)[C@H]1[C@@H]2C(=O)O[C@H]1[C@H]1OC(=O)[C@@]34O[C@@H]3C[C@]2(O)[C@@]14C</chem>	-5.41
<chem>CC(C)NC(=O)c1ccc(F)cc1</chem>	-5.39
<chem>C1C[NH2+]CC[NH2+]1</chem>	-5.23
<chem>CC(C)OC(=O)/C=C/c1ccc(O)c(O)c1</chem>	-5.19
<chem>CCCC(CCC)C(=O)NCC(C)C</chem>	-5.17
<chem>CCCCOC(=O)/C=C/c1ccc(O)c(O)c1</chem>	-5.14
<chem>CC[C@H](C(=O)[O-])c1ccccc1</chem>	-5.09
<chem>O=C([O-])/C=C/c1ccc(O)cc1</chem>	-5.06
<chem>O=C([O-])CCCC[C@H]1CCSS1</chem>	-5.01
<chem>CC[C@@H](C(N)=O)N1CCCC1=O</chem>	-5
<chem>CCCC(CCC)C(=O)NC(C)C</chem>	-4.96
<chem>COC(=O)CC[C@H](N[S@](=O)Oc1ccccc1O)C(=O)OC</chem>	-4.93
<chem>CCCCNC(=O)C(CCC)CCC</chem>	-4.9
<chem>CC(C)=C[C@H]1[C@@H](C(=O)[O-])C1(C)C</chem>	-4.87
<chem>CCCCN(CCCC)S(=O)(=O)N(CCCC)CCCC</chem>	-4.86
<chem>O=C([O-])/C=C/c1ccc(O)c(O)c1</chem>	-4.85
<chem>CC(=O)NCCCS(=O)(=O)[O-]</chem>	-4.76
<chem>COC(=O)/C=C/c1ccc(O)c(O)c1</chem>	-4.76
<chem>CCCOC(=O)/C=C/c1ccc(O)c(O)c1</chem>	-4.76
<chem>O=C([O-])CCCCCCCC(=O)[O-]</chem>	-4.75
<chem>CO[C@@H]1[C@@H](OC(N)=O)[C@@H](O)[C@H](Oc2ccc3c(O)c(NC(=O)c4ccc(O)c(CC=C(C)C)c4)c(=O)oc3c2C)OC1(C)C</chem>	-4.68
<chem>CC[C@H](C)[C@H](NC(=O)OC(C)(C)C)C(=O)[O-]</chem>	-4.66

<chem>COC(=O)c1ccc(O)cc1</chem>	-4.66
<chem>CCCNC(=O)C(CCC)CCC</chem>	-4.65
<chem>O=C([O-])C1(O)CCCCC1</chem>	-4.57
<chem>CCCOC(=O)c1ccc(O)cc1</chem>	-4.26
<chem>OC[C@@H](O)[C@@H](O)[C@H](O)[C@H](O)CO</chem>	-4.04
<chem>OC[C@H](O)[C@@H](O)[C@H](O)[C@H](O)CO</chem>	-3.88
<chem>CC[C@@H]([C@H](C)O)n1ncn(- c2ccc(N3CCN(c4ccc(OC[C@@H]5CO[C@@](Cn6cncn6)(c6ccc(F)cc6F) C5)cc4)CC3)cc2)c1=O</chem>	-2.96

Table S3

Snap	Pearson's R		Kendall's Tau B		Spearman's Rho	
	Mean	STD	Mean	STD	Mean	STD
10595_r	0.492	0.061	0.300	0.053	0.476	0.072
12684_r	0.441	0.057	0.295	0.050	0.469	0.071
1554_r	0.588	0.067	0.350	0.063	0.516	0.081
15589_r	0.214	0.058	0.244	0.056	0.401	0.081
17423_r	0.615	0.053	0.417	0.058	0.607	0.070
18985_r	0.472	0.065	0.325	0.054	0.502	0.072
22514_r	0.458	0.066	0.341	0.054	0.519	0.070
307_r	0.583	0.062	0.384	0.056	0.567	0.071
3513_r	0.365	0.066	0.243	0.056	0.386	0.080
5747_r	0.255	0.058	0.214	0.047	0.375	0.074

Coordinates of the TcCA model

ATOM	1	N	GLN	1	49.783	17.833	36.038	1.00	0.00	N
ATOM	2	H1	GLN	1	50.699	17.943	36.450	1.00	0.00	H
ATOM	3	H2	GLN	1	49.258	17.157	36.576	1.00	0.00	H
ATOM	4	H3	GLN	1	49.880	17.506	35.087	1.00	0.00	H
ATOM	5	CA	GLN	1	49.092	19.093	36.052	1.00	0.00	C
ATOM	6	HA	GLN	1	49.676	19.837	35.509	1.00	0.00	H
ATOM	7	CB	GLN	1	47.694	18.999	35.435	1.00	0.00	C
ATOM	8	HB2	GLN	1	47.787	18.753	34.376	1.00	0.00	H
ATOM	9	HB3	GLN	1	47.158	18.179	35.916	1.00	0.00	H
ATOM	10	CG	GLN	1	46.856	20.255	35.598	1.00	0.00	C
ATOM	11	HG2	GLN	1	45.858	20.047	35.210	1.00	0.00	H
ATOM	12	HG3	GLN	1	46.750	20.512	36.652	1.00	0.00	H
ATOM	13	CD	GLN	1	47.422	21.433	34.829	1.00	0.00	C
ATOM	14	OE1	GLN	1	47.697	22.523	35.537	1.00	0.00	O
ATOM	15	NE2	GLN	1	47.611	21.365	33.612	1.00	0.00	N
ATOM	16	HE21	GLN	1	47.353	20.539	33.095	1.00	0.00	H
ATOM	17	HE22	GLN	1	47.970	22.178	33.132	1.00	0.00	H
ATOM	18	C	GLN	1	49.031	19.471	37.501	1.00	0.00	C
ATOM	19	O	GLN	1	48.649	18.721	38.402	1.00	0.00	O
ATOM	20	N	TRP	2	49.531	20.660	37.830	1.00	0.00	N
ATOM	21	H	TRP	2	49.876	21.295	37.123	1.00	0.00	H
ATOM	22	CA	TRP	2	49.423	21.151	39.219	1.00	0.00	C
ATOM	23	HA	TRP	2	49.552	20.322	39.911	1.00	0.00	H
ATOM	24	CB	TRP	2	50.545	22.155	39.488	1.00	0.00	C
ATOM	25	HB2	TRP	2	50.584	22.883	38.676	1.00	0.00	H
ATOM	26	HB3	TRP	2	50.321	22.697	40.406	1.00	0.00	H
ATOM	27	CG	TRP	2	51.891	21.517	39.658	1.00	0.00	C
ATOM	28	CD1	TRP	2	52.147	20.275	40.156	1.00	0.00	C

ATOM	29	HD1 TRP	2	51.410	19.583	40.531	1.00	0.00	H
ATOM	30	NE1 TRP	2	53.499	20.036	40.160	1.00	0.00	N
ATOM	31	HE1 TRP	2	53.927	19.180	40.484	1.00	0.00	H
ATOM	32	CE2 TRP	2	54.146	21.135	39.654	1.00	0.00	C
ATOM	33	CZ2 TRP	2	55.499	21.366	39.462	1.00	0.00	C
ATOM	34	HZ2 TRP	2	56.237	20.627	39.735	1.00	0.00	H
ATOM	35	CH2 TRP	2	55.872	22.597	38.921	1.00	0.00	C
ATOM	36	HH2 TRP	2	56.918	22.802	38.746	1.00	0.00	H
ATOM	37	CZ3 TRP	2	54.939	23.548	38.593	1.00	0.00	C
ATOM	38	HZ3 TRP	2	55.263	24.488	38.170	1.00	0.00	H
ATOM	39	CE3 TRP	2	53.583	23.317	38.786	1.00	0.00	C
ATOM	40	HE3 TRP	2	52.857	24.079	38.544	1.00	0.00	H
ATOM	41	CD2 TRP	2	53.179	22.090	39.327	1.00	0.00	C
ATOM	42	C TRP	2	48.091	21.808	39.594	1.00	0.00	C
ATOM	43	O TRP	2	47.510	22.554	38.785	1.00	0.00	O
ATOM	44	N GLY	3	47.627	21.732	40.796	1.00	0.00	N
ATOM	45	H GLY	3	48.176	21.176	41.436	1.00	0.00	H
ATOM	46	CA GLY	3	46.456	22.309	41.396	1.00	0.00	C
ATOM	47	HA2 GLY	3	46.584	23.384	41.514	1.00	0.00	H
ATOM	48	HA3 GLY	3	45.612	22.076	40.756	1.00	0.00	H
ATOM	49	C GLY	3	46.200	21.645	42.806	1.00	0.00	C
ATOM	50	O GLY	3	46.960	20.825	43.316	1.00	0.00	O
ATOM	51	N TYR	4	45.075	22.045	43.429	1.00	0.00	N
ATOM	52	H TYR	4	44.488	22.737	42.989	1.00	0.00	H
ATOM	53	CA TYR	4	44.689	21.571	44.754	1.00	0.00	C
ATOM	54	HA TYR	4	45.579	21.538	45.383	1.00	0.00	H
ATOM	55	CB TYR	4	43.720	22.571	45.390	1.00	0.00	C
ATOM	56	HB2 TYR	4	42.942	22.829	44.669	1.00	0.00	H
ATOM	57	HB3 TYR	4	43.213	22.128	46.247	1.00	0.00	H
ATOM	58	CG TYR	4	44.389	23.829	45.899	1.00	0.00	C

ATOM	59	CD1	TYR	4	44.299	25.006	45.170	1.00	0.00	C
ATOM	60	HD1	TYR	4	43.765	25.019	44.236	1.00	0.00	H
ATOM	61	CE1	TYR	4	44.910	26.155	45.635	1.00	0.00	C
ATOM	62	HE1	TYR	4	44.848	27.072	45.069	1.00	0.00	H
ATOM	63	CZ	TYR	4	45.612	26.125	46.834	1.00	0.00	C
ATOM	64	OH	TYR	4	46.220	27.269	47.298	1.00	0.00	O
ATOM	65	HH	TYR	4	46.621	27.163	48.170	1.00	0.00	H
ATOM	66	CE2	TYR	4	45.701	24.954	47.560	1.00	0.00	C
ATOM	67	HE2	TYR	4	46.244	24.942	48.492	1.00	0.00	H
ATOM	68	CD2	TYR	4	45.091	23.806	47.095	1.00	0.00	C
ATOM	69	HD2	TYR	4	45.170	22.894	47.667	1.00	0.00	H
ATOM	70	C	TYR	4	44.068	20.185	44.786	1.00	0.00	C
ATOM	71	O	TYR	4	43.948	19.512	43.767	1.00	0.00	O
ATOM	72	N	THR	5	43.786	19.685	46.036	1.00	0.00	N
ATOM	73	H	THR	5	43.944	20.292	46.828	1.00	0.00	H
ATOM	74	CA	THR	5	43.350	18.370	46.342	1.00	0.00	C
ATOM	75	HA	THR	5	43.095	18.353	47.402	1.00	0.00	H
ATOM	76	CB	THR	5	42.070	18.057	45.545	1.00	0.00	C
ATOM	77	HB	THR	5	42.232	18.122	44.472	1.00	0.00	H
ATOM	78	CG2	THR	5	41.596	16.641	45.832	1.00	0.00	C
ATOM	79	HG21	THR	5	40.592	16.509	45.425	1.00	0.00	H
ATOM	80	HG22	THR	5	42.244	15.907	45.353	1.00	0.00	H
ATOM	81	HG23	THR	5	41.566	16.460	46.907	1.00	0.00	H
ATOM	82	OG1	THR	5	41.039	18.985	45.908	1.00	0.00	O
ATOM	83	HG1	THR	5	40.839	18.861	46.840	1.00	0.00	H
ATOM	84	C	THR	5	44.325	17.272	46.110	1.00	0.00	C
ATOM	85	O	THR	5	44.674	16.477	47.017	1.00	0.00	O
ATOM	86	N	ASN	6	44.965	17.202	44.972	1.00	0.00	N
ATOM	87	H	ASN	6	44.705	17.861	44.253	1.00	0.00	H
ATOM	88	CA	ASN	6	46.079	16.325	44.647	1.00	0.00	C

ATOM	89	HA	ASN	6	46.011	15.423	45.257	1.00	0.00	H
ATOM	90	CB	ASN	6	46.008	15.914	43.188	1.00	0.00	C
ATOM	91	HB2	ASN	6	46.022	16.802	42.552	1.00	0.00	H
ATOM	92	HB3	ASN	6	46.873	15.294	42.946	1.00	0.00	H
ATOM	93	CG	ASN	6	44.787	15.094	42.877	1.00	0.00	C
ATOM	94	OD1	ASN	6	44.187	15.348	41.742	1.00	0.00	O
ATOM	95	ND2	ASN	6	44.387	14.230	43.666	1.00	0.00	N
ATOM	96	HD21	ASN	6	43.523	13.750	43.464	1.00	0.00	H
ATOM	97	HD22	ASN	6	44.919	13.997	44.489	1.00	0.00	H
ATOM	98	C	ASN	6	47.430	16.927	44.943	1.00	0.00	C
ATOM	99	O	ASN	6	48.213	17.123	44.035	1.00	0.00	O
ATOM	100	N	LEU	7	47.712	17.314	46.190	1.00	0.00	N
ATOM	101	H	LEU	7	47.036	17.156	46.925	1.00	0.00	H
ATOM	102	CA	LEU	7	48.945	18.093	46.521	1.00	0.00	C
ATOM	103	HA	LEU	7	49.001	18.955	45.855	1.00	0.00	H
ATOM	104	CB	LEU	7	48.874	18.598	47.967	1.00	0.00	C
ATOM	105	HB2	LEU	7	48.368	17.850	48.581	1.00	0.00	H
ATOM	106	HB3	LEU	7	49.887	18.694	48.361	1.00	0.00	H
ATOM	107	CG	LEU	7	48.208	19.966	48.162	1.00	0.00	C
ATOM	108	HG	LEU	7	48.807	20.725	47.664	1.00	0.00	H
ATOM	109	CD1	LEU	7	46.817	19.947	47.543	1.00	0.00	C
ATOM	110	HD11	LEU	7	46.306	20.877	47.786	1.00	0.00	H
ATOM	111	HD12	LEU	7	46.884	19.876	46.458	1.00	0.00	H
ATOM	112	HD13	LEU	7	46.235	19.114	47.939	1.00	0.00	H
ATOM	113	CD2	LEU	7	48.142	20.292	49.647	1.00	0.00	C
ATOM	114	HD21	LEU	7	47.699	21.279	49.786	1.00	0.00	H
ATOM	115	HD22	LEU	7	47.540	19.552	50.175	1.00	0.00	H
ATOM	116	HD23	LEU	7	49.149	20.301	50.064	1.00	0.00	H
ATOM	117	C	LEU	7	50.239	17.337	46.357	1.00	0.00	C
ATOM	118	O	LEU	7	51.377	17.756	46.376	1.00	0.00	O

ATOM	119	N	THR	8	50.173	15.981	46.318	1.00	0.00	N
ATOM	120	H	THR	8	49.276	15.518	46.351	1.00	0.00	H
ATOM	121	CA	THR	8	51.402	15.121	46.126	1.00	0.00	C
ATOM	122	HA	THR	8	52.128	15.387	46.896	1.00	0.00	H
ATOM	123	CB	THR	8	51.043	13.635	46.310	1.00	0.00	C
ATOM	124	HB	THR	8	51.939	13.031	46.167	1.00	0.00	H
ATOM	125	CG2	THR	8	50.497	13.387	47.708	1.00	0.00	C
ATOM	126	HG21	THR	8	50.362	12.316	47.859	1.00	0.00	H
ATOM	127	HG22	THR	8	51.202	13.759	48.453	1.00	0.00	H
ATOM	128	HG23	THR	8	49.535	13.883	47.843	1.00	0.00	H
ATOM	129	OG1	THR	8	50.056	13.255	45.342	1.00	0.00	O
ATOM	130	HG1	THR	8	50.189	12.329	45.123	1.00	0.00	H
ATOM	131	C	THR	8	52.112	15.312	44.717	1.00	0.00	C
ATOM	132	O	THR	8	53.220	14.838	44.612	1.00	0.00	O
ATOM	133	N	ALA	9	51.457	15.975	43.768	1.00	0.00	N
ATOM	134	H	ALA	9	50.524	16.323	43.936	1.00	0.00	H
ATOM	135	CA	ALA	9	52.088	16.252	42.515	1.00	0.00	C
ATOM	136	HA	ALA	9	52.722	15.413	42.225	1.00	0.00	H
ATOM	137	CB	ALA	9	50.929	16.362	41.488	1.00	0.00	C
ATOM	138	HB1	ALA	9	51.340	16.546	40.495	1.00	0.00	H
ATOM	139	HB2	ALA	9	50.359	15.432	41.468	1.00	0.00	H
ATOM	140	HB3	ALA	9	50.267	17.187	41.758	1.00	0.00	H
ATOM	141	C	ALA	9	52.973	17.522	42.638	1.00	0.00	C
ATOM	142	O	ALA	9	53.651	17.771	41.637	1.00	0.00	O
ATOM	143	N	TRP	10	52.945	18.231	43.759	1.00	0.00	N
ATOM	144	H	TRP	10	52.379	17.912	44.532	1.00	0.00	H
ATOM	145	CA	TRP	10	53.644	19.508	43.923	1.00	0.00	C
ATOM	146	HA	TRP	10	53.509	20.083	43.009	1.00	0.00	H
ATOM	147	CB	TRP	10	53.010	20.292	45.074	1.00	0.00	C
ATOM	148	HB2	TRP	10	53.038	19.697	45.986	1.00	0.00	H

ATOM	149	HB3 TRP	10	53.601	21.191	45.253	1.00	0.00	H
ATOM	150	CG TRP	10	51.602	20.726	44.798	1.00	0.00	C
ATOM	151	CD1 TRP	10	50.807	20.309	43.773	1.00	0.00	C
ATOM	152	HD1 TRP	10	51.080	19.624	42.988	1.00	0.00	H
ATOM	153	NE1 TRP	10	49.582	20.925	43.844	1.00	0.00	N
ATOM	154	HE1 TRP	10	48.817	20.742	43.213	1.00	0.00	H
ATOM	155	CE2 TRP	10	49.566	21.759	44.933	1.00	0.00	C
ATOM	156	CZ2 TRP	10	48.561	22.585	45.412	1.00	0.00	C
ATOM	157	HZ2 TRP	10	47.609	22.676	44.918	1.00	0.00	H
ATOM	158	CH2 TRP	10	48.833	23.332	46.558	1.00	0.00	C
ATOM	159	HH2 TRP	10	48.076	23.988	46.954	1.00	0.00	H
ATOM	160	CZ3 TRP	10	50.048	23.258	47.191	1.00	0.00	C
ATOM	161	HZ3 TRP	10	50.206	23.851	48.071	1.00	0.00	H
ATOM	162	CE3 TRP	10	51.056	22.431	46.710	1.00	0.00	C
ATOM	163	HE3 TRP	10	52.014	22.384	47.208	1.00	0.00	H
ATOM	164	CD2 TRP	10	50.811	21.669	45.561	1.00	0.00	C
ATOM	165	C TRP	10	55.180	19.327	44.187	1.00	0.00	C
ATOM	166	O TRP	10	55.529	18.263	44.699	1.00	0.00	O
ATOM	167	N PRO	11	56.015	20.309	43.829	1.00	0.00	N
ATOM	168	CD PRO	11	55.669	21.565	43.138	1.00	0.00	C
ATOM	169	HD2 PRO	11	55.264	22.282	43.853	1.00	0.00	H
ATOM	170	HD3 PRO	11	54.987	21.411	42.304	1.00	0.00	H
ATOM	171	CG PRO	11	57.011	22.031	42.640	1.00	0.00	C
ATOM	172	HG2 PRO	11	57.027	23.108	42.493	1.00	0.00	H
ATOM	173	HG3 PRO	11	57.252	21.526	41.705	1.00	0.00	H
ATOM	174	CB PRO	11	57.971	21.589	43.691	1.00	0.00	C
ATOM	175	HB2 PRO	11	57.925	22.284	44.532	1.00	0.00	H
ATOM	176	HB3 PRO	11	58.990	21.534	43.306	1.00	0.00	H
ATOM	177	CA PRO	11	57.456	20.209	44.114	1.00	0.00	C
ATOM	178	HA PRO	11	57.896	19.438	43.480	1.00	0.00	H

ATOM	179	C	PRO	11	57.767	19.928	45.596	1.00	0.00	C
ATOM	180	O	PRO	11	57.009	20.400	46.449	1.00	0.00	O
ATOM	181	N	LYS	12	58.788	19.020	45.934	1.00	0.00	N
ATOM	182	H	LYS	12	59.321	18.631	45.170	1.00	0.00	H
ATOM	183	CA	LYS	12	59.241	18.641	47.279	1.00	0.00	C
ATOM	184	HA	LYS	12	58.982	19.456	47.957	1.00	0.00	H
ATOM	185	CB	LYS	12	58.497	17.389	47.747	1.00	0.00	C
ATOM	186	HB2	LYS	12	58.772	17.183	48.783	1.00	0.00	H
ATOM	187	HB3	LYS	12	57.426	17.601	47.727	1.00	0.00	H
ATOM	188	CG	LYS	12	58.765	16.147	46.908	1.00	0.00	C
ATOM	189	HG2	LYS	12	58.513	16.343	45.865	1.00	0.00	H
ATOM	190	HG3	LYS	12	59.821	15.882	46.972	1.00	0.00	H
ATOM	191	CD	LYS	12	57.941	14.964	47.393	1.00	0.00	C
ATOM	192	HD2	LYS	12	58.163	14.779	48.445	1.00	0.00	H
ATOM	193	HD3	LYS	12	56.880	15.201	47.291	1.00	0.00	H
ATOM	194	CE	LYS	12	58.251	13.708	46.593	1.00	0.00	C
ATOM	195	HE2	LYS	12	58.021	13.915	45.546	1.00	0.00	H
ATOM	196	HE3	LYS	12	59.312	13.467	46.674	1.00	0.00	H
ATOM	197	NZ	LYS	12	57.434	12.547	47.040	1.00	0.00	N
ATOM	198	HZ1	LYS	12	57.375	11.865	46.298	1.00	0.00	H
ATOM	199	HZ2	LYS	12	57.858	12.126	47.853	1.00	0.00	H
ATOM	200	HZ3	LYS	12	56.504	12.861	47.274	1.00	0.00	H
ATOM	201	C	LYS	12	60.721	18.397	47.398	1.00	0.00	C
ATOM	202	O	LYS	12	61.318	18.087	46.352	1.00	0.00	O
ATOM	203	N	LEU	13	61.299	18.649	48.603	1.00	0.00	N
ATOM	204	H	LEU	13	60.718	18.975	49.362	1.00	0.00	H
ATOM	205	CA	LEU	13	62.724	18.399	48.908	1.00	0.00	C
ATOM	206	HA	LEU	13	63.002	17.458	48.433	1.00	0.00	H
ATOM	207	CB	LEU	13	63.578	19.521	48.304	1.00	0.00	C
ATOM	208	HB2	LEU	13	63.440	19.521	47.222	1.00	0.00	H

ATOM	209	HB3	LEU	13	63.192	20.471	48.669	1.00	0.00	H
ATOM	210	CG	LEU	13	65.081	19.447	48.601	1.00	0.00	C
ATOM	211	HG	LEU	13	65.247	19.433	49.671	1.00	0.00	H
ATOM	212	CD1	LEU	13	65.659	18.181	47.984	1.00	0.00	C
ATOM	213	HD11	LEU	13	66.739	18.165	48.135	1.00	0.00	H
ATOM	214	HD12	LEU	13	65.244	17.294	48.461	1.00	0.00	H
ATOM	215	HD13	LEU	13	65.452	18.149	46.913	1.00	0.00	H
ATOM	216	CD2	LEU	13	65.769	20.687	48.051	1.00	0.00	C
ATOM	217	HD21	LEU	13	66.838	20.636	48.250	1.00	0.00	H
ATOM	218	HD22	LEU	13	65.616	20.753	46.973	1.00	0.00	H
ATOM	219	HD23	LEU	13	65.369	21.585	48.520	1.00	0.00	H
ATOM	220	C	LEU	13	63.019	18.288	50.438	1.00	0.00	C
ATOM	221	O	LEU	13	62.753	19.255	51.160	1.00	0.00	O
ATOM	222	N	CYS	14	63.668	17.230	50.850	1.00	0.00	N
ATOM	223	H	CYS	14	63.927	16.525	50.175	1.00	0.00	H
ATOM	224	CA	CYS	14	63.957	16.936	52.270	1.00	0.00	C
ATOM	225	HA	CYS	14	63.010	16.856	52.805	1.00	0.00	H
ATOM	226	CB	CYS	14	64.719	15.619	52.421	1.00	0.00	C
ATOM	227	HB2	CYS	14	64.814	15.380	53.481	1.00	0.00	H
ATOM	228	HB3	CYS	14	64.138	14.826	51.950	1.00	0.00	H
ATOM	229	SG	CYS	14	66.371	15.634	51.686	1.00	0.00	S
ATOM	230	HG	CYS	14	66.527	14.307	51.635	1.00	0.00	H
ATOM	231	C	CYS	14	64.759	18.009	52.906	1.00	0.00	C
ATOM	232	O	CYS	14	64.927	18.017	54.148	1.00	0.00	O
ATOM	233	N	GLN	15	65.539	18.819	52.159	1.00	0.00	N
ATOM	234	H	GLN	15	65.509	18.705	51.158	1.00	0.00	H
ATOM	235	CA	GLN	15	66.403	19.911	52.672	1.00	0.00	C
ATOM	236	HA	GLN	15	66.855	19.587	53.610	1.00	0.00	H
ATOM	237	CB	GLN	15	67.529	20.194	51.674	1.00	0.00	C
ATOM	238	HB2	GLN	15	67.066	20.472	50.728	1.00	0.00	H

ATOM	239	HB3	GLN	15	68.118	21.042	52.026	1.00	0.00	H
ATOM	240	CG	GLN	15	68.488	19.033	51.472	1.00	0.00	C
ATOM	241	HG2	GLN	15	68.990	18.813	52.415	1.00	0.00	H
ATOM	242	HG3	GLN	15	67.928	18.154	51.157	1.00	0.00	H
ATOM	243	CD	GLN	15	69.526	19.319	50.404	1.00	0.00	C
ATOM	244	OE1	GLN	15	70.642	18.601	50.457	1.00	0.00	O
ATOM	245	NE2	GLN	15	69.328	20.177	49.539	1.00	0.00	N
ATOM	246	HE21	GLN	15	68.488	20.734	49.554	1.00	0.00	H
ATOM	247	HE22	GLN	15	70.029	20.322	48.828	1.00	0.00	H
ATOM	248	C	GLN	15	65.605	21.229	52.962	1.00	0.00	C
ATOM	249	O	GLN	15	66.271	22.240	53.239	1.00	0.00	O
ATOM	250	N	THR	16	64.312	21.241	52.760	1.00	0.00	N
ATOM	251	H	THR	16	63.825	20.406	52.468	1.00	0.00	H
ATOM	252	CA	THR	16	63.555	22.469	52.961	1.00	0.00	C
ATOM	253	HA	THR	16	64.226	23.328	52.941	1.00	0.00	H
ATOM	254	CB	THR	16	62.581	22.669	51.784	1.00	0.00	C
ATOM	255	HB	THR	16	62.021	23.594	51.926	1.00	0.00	H
ATOM	256	CG2	THR	16	63.343	22.760	50.471	1.00	0.00	C
ATOM	257	HG21	THR	16	62.650	22.960	49.654	1.00	0.00	H
ATOM	258	HG22	THR	16	64.069	23.570	50.524	1.00	0.00	H
ATOM	259	HG23	THR	16	63.876	21.834	50.275	1.00	0.00	H
ATOM	260	OG1	THR	16	61.665	21.568	51.726	1.00	0.00	O
ATOM	261	HG1	THR	16	62.156	20.774	51.488	1.00	0.00	H
ATOM	262	C	THR	16	62.764	22.585	54.258	1.00	0.00	C
ATOM	263	O	THR	16	62.101	23.564	54.525	1.00	0.00	O
ATOM	264	N	GLY	17	62.974	21.736	55.294	1.00	0.00	N
ATOM	265	H	GLY	17	63.617	20.971	55.149	1.00	0.00	H
ATOM	266	CA	GLY	17	62.228	21.727	56.548	1.00	0.00	C
ATOM	267	HA2	GLY	17	61.250	21.274	56.387	1.00	0.00	H
ATOM	268	HA3	GLY	17	62.775	21.135	57.282	1.00	0.00	H

ATOM	269	C	GLY	17	62.049	23.166	57.097	1.00	0.00	C
ATOM	270	O	GLY	17	60.959	23.719	57.191	1.00	0.00	O
ATOM	271	N	LYS	18	63.102	23.982	57.252	1.00	0.00	N
ATOM	272	H	LYS	18	64.000	23.577	57.031	1.00	0.00	H
ATOM	273	CA	LYS	18	63.173	25.320	57.776	1.00	0.00	C
ATOM	274	HA	LYS	18	62.762	25.300	58.787	1.00	0.00	H
ATOM	275	CB	LYS	18	64.645	25.726	57.875	1.00	0.00	C
ATOM	276	HB2	LYS	18	65.122	25.580	56.904	1.00	0.00	H
ATOM	277	HB3	LYS	18	64.696	26.791	58.112	1.00	0.00	H
ATOM	278	CG	LYS	18	65.432	24.982	58.945	1.00	0.00	C
ATOM	279	HG2	LYS	18	64.973	25.173	59.916	1.00	0.00	H
ATOM	280	HG3	LYS	18	65.405	23.910	58.745	1.00	0.00	H
ATOM	281	CD	LYS	18	66.881	25.443	58.985	1.00	0.00	C
ATOM	282	HD2	LYS	18	67.346	25.245	58.018	1.00	0.00	H
ATOM	283	HD3	LYS	18	66.913	26.517	59.178	1.00	0.00	H
ATOM	284	CE	LYS	18	67.663	24.720	60.072	1.00	0.00	C
ATOM	285	HE2	LYS	18	67.203	24.933	61.039	1.00	0.00	H
ATOM	286	HE3	LYS	18	67.608	23.646	59.890	1.00	0.00	H
ATOM	287	NZ	LYS	18	69.091	25.139	60.103	1.00	0.00	N
ATOM	288	HZ1	LYS	18	69.148	26.133	60.275	1.00	0.00	H
ATOM	289	HZ2	LYS	18	69.581	24.644	60.836	1.00	0.00	H
ATOM	290	HZ3	LYS	18	69.525	24.937	59.213	1.00	0.00	H
ATOM	291	C	LYS	18	62.427	26.399	57.038	1.00	0.00	C
ATOM	292	O	LYS	18	62.096	27.475	57.567	1.00	0.00	O
ATOM	293	N	GLN	19	62.142	26.087	55.795	1.00	0.00	N
ATOM	294	H	GLN	19	62.445	25.178	55.477	1.00	0.00	H
ATOM	295	CA	GLN	19	61.471	26.901	54.776	1.00	0.00	C
ATOM	296	HA	GLN	19	61.377	27.919	55.157	1.00	0.00	H
ATOM	297	CB	GLN	19	62.347	26.943	53.521	1.00	0.00	C
ATOM	298	HB2	GLN	19	62.498	25.921	53.170	1.00	0.00	H

ATOM	299	HB3	GLN	19	61.833	27.484	52.727	1.00	0.00	H
ATOM	300	CG	GLN	19	63.709	27.582	53.734	1.00	0.00	C
ATOM	301	HG2	GLN	19	64.240	27.089	54.549	1.00	0.00	H
ATOM	302	HG3	GLN	19	64.299	27.442	52.829	1.00	0.00	H
ATOM	303	CD	GLN	19	63.613	29.072	54.001	1.00	0.00	C
ATOM	304	OE1	GLN	19	64.141	29.503	55.141	1.00	0.00	O
ATOM	305	NE2	GLN	19	63.071	29.829	53.191	1.00	0.00	N
ATOM	306	HE21	GLN	19	62.746	29.463	52.309	1.00	0.00	H
ATOM	307	HE22	GLN	19	63.013	30.813	53.403	1.00	0.00	H
ATOM	308	C	GLN	19	60.028	26.431	54.390	1.00	0.00	C
ATOM	309	O	GLN	19	59.466	27.031	53.461	1.00	0.00	O
ATOM	310	N	GLN	20	59.461	25.438	55.072	1.00	0.00	N
ATOM	311	H	GLN	20	59.963	24.971	55.814	1.00	0.00	H
ATOM	312	CA	GLN	20	58.146	24.881	54.612	1.00	0.00	C
ATOM	313	HA	GLN	20	58.249	24.548	53.578	1.00	0.00	H
ATOM	314	CB	GLN	20	57.709	23.689	55.468	1.00	0.00	C
ATOM	315	HB2	GLN	20	57.782	23.957	56.524	1.00	0.00	H
ATOM	316	HB3	GLN	20	56.666	23.485	55.240	1.00	0.00	H
ATOM	317	CG	GLN	20	58.491	22.414	55.205	1.00	0.00	C
ATOM	318	HG2	GLN	20	58.450	22.191	54.138	1.00	0.00	H
ATOM	319	HG3	GLN	20	59.533	22.563	55.472	1.00	0.00	H
ATOM	320	CD	GLN	20	57.941	21.228	55.975	1.00	0.00	C
ATOM	321	OE1	GLN	20	57.485	20.213	55.249	1.00	0.00	O
ATOM	322	NE2	GLN	20	57.925	21.224	57.209	1.00	0.00	N
ATOM	323	HE21	GLN	20	58.328	21.995	57.725	1.00	0.00	H
ATOM	324	HE22	GLN	20	57.592	20.409	57.699	1.00	0.00	H
ATOM	325	C	GLN	20	57.078	25.941	54.657	1.00	0.00	C
ATOM	326	O	GLN	20	57.198	26.807	55.534	1.00	0.00	O
ATOM	327	N	SER	21	56.038	25.902	53.804	1.00	0.00	N
ATOM	328	H	SER	21	55.951	25.193	53.091	1.00	0.00	H

ATOM	329	CA	SER	21	55.013	26.999	53.899	1.00	0.00	C
ATOM	330	HA	SER	21	54.951	27.350	54.926	1.00	0.00	H
ATOM	331	CB	SER	21	55.534	28.122	53.051	1.00	0.00	C
ATOM	332	HB2	SER	21	56.545	28.382	53.368	1.00	0.00	H
ATOM	333	HB3	SER	21	55.574	27.749	52.029	1.00	0.00	H
ATOM	334	OG	SER	21	54.780	29.280	53.033	1.00	0.00	O
ATOM	335	HG	SER	21	55.104	29.816	52.299	1.00	0.00	H
ATOM	336	C	SER	21	53.588	26.464	53.480	1.00	0.00	C
ATOM	337	O	SER	21	53.592	25.522	52.591	1.00	0.00	O
ATOM	338	N	PRO	22	52.447	26.925	54.001	1.00	0.00	N
ATOM	339	CD	PRO	22	51.151	26.416	53.567	1.00	0.00	C
ATOM	340	HD2	PRO	22	51.115	25.328	53.611	1.00	0.00	H
ATOM	341	HD3	PRO	22	50.919	26.775	52.565	1.00	0.00	H
ATOM	342	CG	PRO	22	50.206	27.013	54.575	1.00	0.00	C
ATOM	343	HG2	PRO	22	50.150	26.374	55.452	1.00	0.00	H
ATOM	344	HG3	PRO	22	49.218	27.148	54.155	1.00	0.00	H
ATOM	345	CB	PRO	22	50.828	28.317	54.939	1.00	0.00	C
ATOM	346	HB2	PRO	22	50.454	28.697	55.889	1.00	0.00	H
ATOM	347	HB3	PRO	22	50.618	29.044	54.155	1.00	0.00	H
ATOM	348	CA	PRO	22	52.330	28.019	54.979	1.00	0.00	C
ATOM	349	HA	PRO	22	52.870	28.896	54.633	1.00	0.00	H
ATOM	350	C	PRO	22	52.803	27.627	56.424	1.00	0.00	C
ATOM	351	O	PRO	22	52.990	26.469	56.810	1.00	0.00	O
ATOM	352	N	VAL	23	53.140	28.730	57.121	1.00	0.00	N
ATOM	353	H	VAL	23	53.013	29.652	56.728	1.00	0.00	H
ATOM	354	CA	VAL	23	53.531	28.600	58.495	1.00	0.00	C
ATOM	355	HA	VAL	23	53.619	27.549	58.772	1.00	0.00	H
ATOM	356	CB	VAL	23	54.920	29.236	58.690	1.00	0.00	C
ATOM	357	HB	VAL	23	54.866	30.293	58.463	1.00	0.00	H
ATOM	358	CG1	VAL	23	55.364	29.111	60.140	1.00	0.00	C

ATOM	359	HG11	VAL	23	56.358	29.538	60.255	1.00	0.00	H
ATOM	360	HG12	VAL	23	54.710	29.687	60.792	1.00	0.00	H
ATOM	361	HG13	VAL	23	55.369	28.067	60.456	1.00	0.00	H
ATOM	362	CG2	VAL	23	55.926	28.579	57.759	1.00	0.00	C
ATOM	363	HG21	VAL	23	56.911	29.009	57.917	1.00	0.00	H
ATOM	364	HG22	VAL	23	55.945	27.503	57.921	1.00	0.00	H
ATOM	365	HG23	VAL	23	55.664	28.763	56.719	1.00	0.00	H
ATOM	366	C	VAL	23	52.538	29.240	59.468	1.00	0.00	C
ATOM	367	O	VAL	23	51.986	30.310	59.192	1.00	0.00	O
ATOM	368	N	SER	24	52.162	28.558	60.559	1.00	0.00	N
ATOM	369	H	SER	24	52.590	27.652	60.676	1.00	0.00	H
ATOM	370	CA	SER	24	51.347	28.981	61.698	1.00	0.00	C
ATOM	371	HA	SER	24	50.463	29.480	61.298	1.00	0.00	H
ATOM	372	CB	SER	24	50.879	27.738	62.430	1.00	0.00	C
ATOM	373	HB2	SER	24	50.224	27.157	61.779	1.00	0.00	H
ATOM	374	HB3	SER	24	51.742	27.128	62.701	1.00	0.00	H
ATOM	375	OG	SER	24	50.184	28.076	63.599	1.00	0.00	O
ATOM	376	HG	SER	24	50.710	27.800	64.358	1.00	0.00	H
ATOM	377	C	SER	24	52.032	29.947	62.717	1.00	0.00	C
ATOM	378	O	SER	24	53.250	29.789	63.013	1.00	0.00	O
ATOM	379	N	PHE	25	51.206	30.885	63.168	1.00	0.00	N
ATOM	380	H	PHE	25	50.255	30.910	62.828	1.00	0.00	H
ATOM	381	CA	PHE	25	51.591	31.887	64.224	1.00	0.00	C
ATOM	382	HA	PHE	25	52.662	31.831	64.420	1.00	0.00	H
ATOM	383	CB	PHE	25	51.217	33.320	63.840	1.00	0.00	C
ATOM	384	HB2	PHE	25	50.161	33.366	63.580	1.00	0.00	H
ATOM	385	HB3	PHE	25	51.363	33.988	64.683	1.00	0.00	H
ATOM	386	CG	PHE	25	52.035	33.877	62.709	1.00	0.00	C
ATOM	387	CD1	PHE	25	51.561	33.838	61.406	1.00	0.00	C
ATOM	388	HD1	PHE	25	50.596	33.401	61.196	1.00	0.00	H

ATOM	389	CE1	PHE	25	52.313	34.350	60.366	1.00	0.00	C
ATOM	390	HE1	PHE	25	51.944	34.297	59.353	1.00	0.00	H
ATOM	391	CZ	PHE	25	53.548	34.909	60.617	1.00	0.00	C
ATOM	392	HZ	PHE	25	54.110	35.350	59.812	1.00	0.00	H
ATOM	393	CE2	PHE	25	54.033	34.955	61.909	1.00	0.00	C
ATOM	394	HE2	PHE	25	54.980	35.427	62.108	1.00	0.00	H
ATOM	395	CD2	PHE	25	53.280	34.441	62.946	1.00	0.00	C
ATOM	396	HD2	PHE	25	53.663	34.497	63.952	1.00	0.00	H
ATOM	397	C	PHE	25	50.850	31.469	65.481	1.00	0.00	C
ATOM	398	O	PHE	25	50.692	32.378	66.348	1.00	0.00	O
ATOM	399	N	SER	26	50.413	30.247	65.679	1.00	0.00	N
ATOM	400	H	SER	26	50.572	29.549	64.967	1.00	0.00	H
ATOM	401	CA	SER	26	49.737	29.799	66.953	1.00	0.00	C
ATOM	402	HA	SER	26	48.839	30.404	67.084	1.00	0.00	H
ATOM	403	CB	SER	26	49.308	28.351	66.815	1.00	0.00	C
ATOM	404	HB2	SER	26	48.728	28.064	67.693	1.00	0.00	H
ATOM	405	HB3	SER	26	48.680	28.238	65.931	1.00	0.00	H
ATOM	406	OG	SER	26	50.420	27.505	66.709	1.00	0.00	O
ATOM	407	HG	SER	26	51.025	27.672	67.438	1.00	0.00	H
ATOM	408	C	SER	26	50.581	29.929	68.232	1.00	0.00	C
ATOM	409	O	SER	26	50.002	29.996	69.357	1.00	0.00	O
ATOM	410	N	GLU	27	51.900	30.044	68.081	1.00	0.00	N
ATOM	411	H	GLU	27	52.269	30.073	67.143	1.00	0.00	H
ATOM	412	CA	GLU	27	52.877	30.283	69.227	1.00	0.00	C
ATOM	413	HA	GLU	27	52.608	29.617	70.048	1.00	0.00	H
ATOM	414	CB	GLU	27	54.298	29.937	68.779	1.00	0.00	C
ATOM	415	HB2	GLU	27	54.543	30.477	67.863	1.00	0.00	H
ATOM	416	HB3	GLU	27	54.999	30.267	69.546	1.00	0.00	H
ATOM	417	CG	GLU	27	54.552	28.448	68.588	1.00	0.00	C
ATOM	418	HG2	GLU	27	55.627	28.295	68.483	1.00	0.00	H

ATOM	419	HG3	GLU	27	54.217	27.906	69.474	1.00	0.00	H
ATOM	420	CD	GLU	27	53.871	27.891	67.369	1.00	0.00	C
ATOM	421	OE1	GLU	27	53.067	28.583	66.792	1.00	0.00	O
ATOM	422	OE2	GLU	27	54.156	26.771	67.014	1.00	0.00	O
ATOM	423	C	GLU	27	52.887	31.726	69.799	1.00	0.00	C
ATOM	424	O	GLU	27	53.545	31.929	70.770	1.00	0.00	O
ATOM	425	N	LEU	28	52.238	32.650	69.112	1.00	0.00	N
ATOM	426	H	LEU	28	51.742	32.401	68.267	1.00	0.00	H
ATOM	427	CA	LEU	28	52.219	34.051	69.572	1.00	0.00	C
ATOM	428	HA	LEU	28	53.233	34.351	69.841	1.00	0.00	H
ATOM	429	CB	LEU	28	51.726	34.963	68.442	1.00	0.00	C
ATOM	430	HB2	LEU	28	50.971	34.435	67.863	1.00	0.00	H
ATOM	431	HB3	LEU	28	51.237	35.829	68.892	1.00	0.00	H
ATOM	432	CG	LEU	28	52.812	35.508	67.505	1.00	0.00	C
ATOM	433	HG	LEU	28	53.517	36.102	68.085	1.00	0.00	H
ATOM	434	CD1	LEU	28	53.554	34.347	66.858	1.00	0.00	C
ATOM	435	HD11	LEU	28	54.279	34.750	66.154	1.00	0.00	H
ATOM	436	HD12	LEU	28	54.098	33.765	67.600	1.00	0.00	H
ATOM	437	HD13	LEU	28	52.869	33.694	66.327	1.00	0.00	H
ATOM	438	CD2	LEU	28	52.173	36.403	66.454	1.00	0.00	C
ATOM	439	HD21	LEU	28	51.438	35.853	65.870	1.00	0.00	H
ATOM	440	HD22	LEU	28	51.671	37.238	66.941	1.00	0.00	H
ATOM	441	HD23	LEU	28	52.943	36.797	65.791	1.00	0.00	H
ATOM	442	C	LEU	28	51.340	34.264	70.808	1.00	0.00	C
ATOM	443	O	LEU	28	51.630	35.007	71.755	1.00	0.00	O
ATOM	444	N	GLN	29	50.230	33.487	70.790	1.00	0.00	N
ATOM	445	H	GLN	29	50.115	32.874	69.996	1.00	0.00	H
ATOM	446	CA	GLN	29	49.174	33.451	71.759	1.00	0.00	C
ATOM	447	HA	GLN	29	48.683	34.426	71.754	1.00	0.00	H
ATOM	448	CB	GLN	29	48.143	32.405	71.328	1.00	0.00	C

ATOM	449	HB2	GLN	29	47.679	32.764	70.412	1.00	0.00	H
ATOM	450	HB3	GLN	29	48.625	31.461	71.088	1.00	0.00	H
ATOM	451	CG	GLN	29	47.050	32.149	72.352	1.00	0.00	C
ATOM	452	HG2	GLN	29	47.484	31.648	73.219	1.00	0.00	H
ATOM	453	HG3	GLN	29	46.634	33.098	72.689	1.00	0.00	H
ATOM	454	CD	GLN	29	45.928	31.292	71.799	1.00	0.00	C
ATOM	455	OE1	GLN	29	45.475	31.491	70.668	1.00	0.00	O
ATOM	456	NE2	GLN	29	45.472	30.331	72.594	1.00	0.00	N
ATOM	457	HE21	GLN	29	44.762	29.705	72.248	1.00	0.00	H
ATOM	458	HE22	GLN	29	45.859	30.212	73.517	1.00	0.00	H
ATOM	459	C	GLN	29	49.646	33.164	73.204	1.00	0.00	C
ATOM	460	O	GLN	29	49.299	33.987	74.039	1.00	0.00	O
ATOM	461	N	PRO	30	50.445	32.090	73.551	1.00	0.00	N
ATOM	462	CD	PRO	30	50.807	30.986	72.622	1.00	0.00	C
ATOM	463	HD2	PRO	30	51.278	31.341	71.715	1.00	0.00	H
ATOM	464	HD3	PRO	30	49.926	30.386	72.400	1.00	0.00	H
ATOM	465	CG	PRO	30	51.762	30.158	73.441	1.00	0.00	C
ATOM	466	HG2	PRO	30	52.786	30.470	73.229	1.00	0.00	H
ATOM	467	HG3	PRO	30	51.645	29.093	73.237	1.00	0.00	H
ATOM	468	CB	PRO	30	51.421	30.489	74.854	1.00	0.00	C
ATOM	469	HB2	PRO	30	52.238	30.232	75.530	1.00	0.00	H
ATOM	470	HB3	PRO	30	50.524	29.939	75.145	1.00	0.00	H
ATOM	471	CA	PRO	30	51.105	31.987	74.823	1.00	0.00	C
ATOM	472	HA	PRO	30	50.389	32.205	75.617	1.00	0.00	H
ATOM	473	C	PRO	30	52.348	32.770	75.107	1.00	0.00	C
ATOM	474	O	PRO	30	52.934	32.576	76.199	1.00	0.00	O
ATOM	475	N	ASN	31	52.697	33.687	74.247	1.00	0.00	N
ATOM	476	H	ASN	31	52.125	33.824	73.426	1.00	0.00	H
ATOM	477	CA	ASN	31	53.959	34.420	74.310	1.00	0.00	C
ATOM	478	HA	ASN	31	53.938	35.094	73.454	1.00	0.00	H

ATOM	479	CB	ASN	31	53.980	35.226	75.596	1.00	0.00	C
ATOM	480	HB2	ASN	31	53.003	35.690	75.742	1.00	0.00	H
ATOM	481	HB3	ASN	31	54.196	34.596	76.458	1.00	0.00	H
ATOM	482	CG	ASN	31	54.999	36.331	75.568	1.00	0.00	C
ATOM	483	OD1	ASN	31	55.550	36.646	76.713	1.00	0.00	O
ATOM	484	ND2	ASN	31	55.288	36.900	74.509	1.00	0.00	N
ATOM	485	HD21	ASN	31	54.845	36.635	73.644	1.00	0.00	H
ATOM	486	HD22	ASN	31	55.995	37.617	74.529	1.00	0.00	H
ATOM	487	C	ASN	31	55.266	33.555	74.192	1.00	0.00	C
ATOM	488	O	ASN	31	56.145	33.554	75.044	1.00	0.00	O
ATOM	489	N	GLU	32	55.393	32.711	73.166	1.00	0.00	N
ATOM	490	H	GLU	32	54.625	32.684	72.509	1.00	0.00	H
ATOM	491	CA	GLU	32	56.529	31.861	72.785	1.00	0.00	C
ATOM	492	HA	GLU	32	57.354	32.049	73.473	1.00	0.00	H
ATOM	493	CB	GLU	32	56.144	30.386	72.915	1.00	0.00	C
ATOM	494	HB2	GLU	32	55.297	30.181	72.259	1.00	0.00	H
ATOM	495	HB3	GLU	32	56.990	29.786	72.580	1.00	0.00	H
ATOM	496	CG	GLU	32	55.795	29.950	74.331	1.00	0.00	C
ATOM	497	HG2	GLU	32	56.634	30.185	74.988	1.00	0.00	H
ATOM	498	HG3	GLU	32	54.922	30.506	74.677	1.00	0.00	H
ATOM	499	CD	GLU	32	55.497	28.480	74.434	1.00	0.00	C
ATOM	500	OE1	GLU	32	55.583	27.804	73.436	1.00	0.00	O
ATOM	501	OE2	GLU	32	55.184	28.031	75.511	1.00	0.00	O
ATOM	502	C	GLU	32	57.036	32.116	71.379	1.00	0.00	C
ATOM	503	O	GLU	32	56.320	32.685	70.622	1.00	0.00	O
ATOM	504	N	VAL	33	58.329	31.838	71.153	1.00	0.00	N
ATOM	505	H	VAL	33	58.841	31.452	71.932	1.00	0.00	H
ATOM	506	CA	VAL	33	59.070	31.841	69.859	1.00	0.00	C
ATOM	507	HA	VAL	33	60.086	31.496	70.054	1.00	0.00	H
ATOM	508	CB	VAL	33	58.410	30.872	68.860	1.00	0.00	C

ATOM	509	HB	VAL	33	57.360	31.134	68.724	1.00	0.00	H
ATOM	510	CG1	VAL	33	59.083	30.970	67.499	1.00	0.00	C
ATOM	511	HG11	VAL	33	58.683	30.199	66.840	1.00	0.00	H
ATOM	512	HG12	VAL	33	58.893	31.928	67.020	1.00	0.00	H
ATOM	513	HG13	VAL	33	60.158	30.817	67.601	1.00	0.00	H
ATOM	514	CG2	VAL	33	58.479	29.450	69.394	1.00	0.00	C
ATOM	515	HG21	VAL	33	58.060	28.763	68.659	1.00	0.00	H
ATOM	516	HG22	VAL	33	59.514	29.168	69.590	1.00	0.00	H
ATOM	517	HG23	VAL	33	57.896	29.353	70.309	1.00	0.00	H
ATOM	518	C	VAL	33	59.163	33.163	69.194	1.00	0.00	C
ATOM	519	O	VAL	33	60.230	33.623	68.791	1.00	0.00	O
ATOM	520	N	VAL	34	58.096	33.922	69.046	1.00	0.00	N
ATOM	521	H	VAL	34	57.212	33.589	69.395	1.00	0.00	H
ATOM	522	CA	VAL	34	58.058	35.160	68.259	1.00	0.00	C
ATOM	523	HA	VAL	34	58.299	34.900	67.237	1.00	0.00	H
ATOM	524	CB	VAL	34	56.647	35.776	68.302	1.00	0.00	C
ATOM	525	HB	VAL	34	55.939	35.007	68.008	1.00	0.00	H
ATOM	526	CG1	VAL	34	56.311	36.240	69.711	1.00	0.00	C
ATOM	527	HG11	VAL	34	55.238	36.421	69.769	1.00	0.00	H
ATOM	528	HG12	VAL	34	56.554	35.481	70.455	1.00	0.00	H
ATOM	529	HG13	VAL	34	56.807	37.179	69.956	1.00	0.00	H
ATOM	530	CG2	VAL	34	56.557	36.932	67.317	1.00	0.00	C
ATOM	531	HG21	VAL	34	55.532	37.295	67.279	1.00	0.00	H
ATOM	532	HG22	VAL	34	57.213	37.751	67.610	1.00	0.00	H
ATOM	533	HG23	VAL	34	56.821	36.590	66.321	1.00	0.00	H
ATOM	534	C	VAL	34	59.099	36.178	68.810	1.00	0.00	C
ATOM	535	O	VAL	34	59.126	36.385	69.975	1.00	0.00	O
ATOM	536	N	HIE	35	59.896	36.854	67.965	1.00	0.00	N
ATOM	537	H	HIE	35	59.858	36.662	66.973	1.00	0.00	H
ATOM	538	CA	HIE	35	60.834	37.850	68.450	1.00	0.00	C

ATOM	539	HA	HIE	35	60.893	37.847	69.539	1.00	0.00	H
ATOM	540	CB	HIE	35	62.245	37.595	67.910	1.00	0.00	C
ATOM	541	HB2	HIE	35	62.200	37.476	66.826	1.00	0.00	H
ATOM	542	HB3	HIE	35	62.876	38.457	68.128	1.00	0.00	H
ATOM	543	CG	HIE	35	62.910	36.394	68.507	1.00	0.00	C
ATOM	544	ND1	HIE	35	64.133	35.927	68.071	1.00	0.00	N
ATOM	545	CE1	HIE	35	64.469	34.861	68.777	1.00	0.00	C
ATOM	546	HE1	HIE	35	65.366	34.273	68.642	1.00	0.00	H
ATOM	547	NE2	HIE	35	63.510	34.620	69.651	1.00	0.00	N
ATOM	548	HE2	HIE	35	63.490	33.846	70.299	1.00	0.00	H
ATOM	549	CD2	HIE	35	62.523	35.564	69.504	1.00	0.00	C
ATOM	550	HD2	HIE	35	61.610	35.620	70.076	1.00	0.00	H
ATOM	551	C	HIE	35	60.348	39.224	68.028	1.00	0.00	C
ATOM	552	O	HIE	35	59.618	39.383	67.061	1.00	0.00	O
ATOM	553	N	ARG	36	60.921	40.282	68.636	1.00	0.00	N
ATOM	554	H	ARG	36	61.587	40.131	69.380	1.00	0.00	H
ATOM	555	CA	ARG	36	60.634	41.721	68.203	1.00	0.00	C
ATOM	556	HA	ARG	36	59.659	41.770	67.714	1.00	0.00	H
ATOM	557	CB	ARG	36	60.623	42.689	69.376	1.00	0.00	C
ATOM	558	HB2	ARG	36	59.847	42.363	70.071	1.00	0.00	H
ATOM	559	HB3	ARG	36	61.580	42.627	69.897	1.00	0.00	H
ATOM	560	CG	ARG	36	60.357	44.140	69.007	1.00	0.00	C
ATOM	561	HG2	ARG	36	61.141	44.495	68.337	1.00	0.00	H
ATOM	562	HG3	ARG	36	59.398	44.207	68.490	1.00	0.00	H
ATOM	563	CD	ARG	36	60.328	45.016	70.206	1.00	0.00	C
ATOM	564	HD2	ARG	36	59.502	44.708	70.850	1.00	0.00	H
ATOM	565	HD3	ARG	36	61.265	44.898	70.752	1.00	0.00	H
ATOM	566	NE	ARG	36	60.164	46.416	69.851	1.00	0.00	N
ATOM	567	HE	ARG	36	60.108	46.637	68.867	1.00	0.00	H
ATOM	568	CZ	ARG	36	60.079	47.426	70.739	1.00	0.00	C

ATOM	569	NH1	ARG	36	60.145	47.175	72.027	1.00	0.00	N
ATOM	570	HH11	ARG	36	60.289	46.228	72.343	1.00	0.00	H
ATOM	571	HH12	ARG	36	60.036	47.923	72.694	1.00	0.00	H
ATOM	572	NH2	ARG	36	59.931	48.668	70.314	1.00	0.00	N
ATOM	573	HH21	ARG	36	59.849	49.425	70.975	1.00	0.00	H
ATOM	574	HH22	ARG	36	59.877	48.861	69.325	1.00	0.00	H
ATOM	575	C	ARG	36	61.722	42.140	67.212	1.00	0.00	C
ATOM	576	O	ARG	36	62.878	42.231	67.584	1.00	0.00	O
ATOM	577	N	LYS	37	61.305	42.329	65.953	1.00	0.00	N
ATOM	578	H	LYS	37	60.321	42.218	65.746	1.00	0.00	H
ATOM	579	CA	LYS	37	62.207	42.669	64.796	1.00	0.00	C
ATOM	580	HA	LYS	37	63.236	42.542	65.130	1.00	0.00	H
ATOM	581	CB	LYS	37	61.957	41.736	63.611	1.00	0.00	C
ATOM	582	HB2	LYS	37	61.929	40.705	63.965	1.00	0.00	H
ATOM	583	HB3	LYS	37	60.982	41.980	63.192	1.00	0.00	H
ATOM	584	CG	LYS	37	62.991	41.843	62.497	1.00	0.00	C
ATOM	585	HG2	LYS	37	62.628	41.265	61.645	1.00	0.00	H
ATOM	586	HG3	LYS	37	63.102	42.876	62.178	1.00	0.00	H
ATOM	587	CD	LYS	37	64.332	41.270	62.931	1.00	0.00	C
ATOM	588	HD2	LYS	37	64.750	41.850	63.754	1.00	0.00	H
ATOM	589	HD3	LYS	37	64.190	40.242	63.266	1.00	0.00	H
ATOM	590	CE	LYS	37	65.330	41.264	61.783	1.00	0.00	C
ATOM	591	HE2	LYS	37	66.228	40.720	62.078	1.00	0.00	H
ATOM	592	HE3	LYS	37	64.871	40.747	60.939	1.00	0.00	H
ATOM	593	NZ	LYS	37	65.703	42.642	61.362	1.00	0.00	N
ATOM	594	HZ1	LYS	37	66.050	42.644	60.416	1.00	0.00	H
ATOM	595	HZ2	LYS	37	64.901	43.252	61.426	1.00	0.00	H
ATOM	596	HZ3	LYS	37	66.407	43.017	61.983	1.00	0.00	H
ATOM	597	C	LYS	37	62.021	44.114	64.348	1.00	0.00	C
ATOM	598	O	LYS	37	60.901	44.537	64.173	1.00	0.00	O

ATOM	599	N	ASP	38	63.101	44.761	64.021	1.00	0.00	N
ATOM	600	H	ASP	38	63.978	44.274	64.134	1.00	0.00	H
ATOM	601	CA	ASP	38	63.225	46.142	63.527	1.00	0.00	C
ATOM	602	HA	ASP	38	62.572	46.769	64.132	1.00	0.00	H
ATOM	603	CB	ASP	38	64.659	46.631	63.745	1.00	0.00	C
ATOM	604	HB2	ASP	38	64.760	47.661	63.400	1.00	0.00	H
ATOM	605	HB3	ASP	38	64.864	46.627	64.816	1.00	0.00	H
ATOM	606	CG	ASP	38	65.696	45.749	63.062	1.00	0.00	C
ATOM	607	OD1	ASP	38	65.494	44.559	63.011	1.00	0.00	O
ATOM	608	OD2	ASP	38	66.680	46.274	62.598	1.00	0.00	O
ATOM	609	C	ASP	38	62.871	46.390	62.082	1.00	0.00	C
ATOM	610	O	ASP	38	63.684	46.684	61.216	1.00	0.00	O
ATOM	611	N	MET	39	61.625	46.079	61.721	1.00	0.00	N
ATOM	612	H	MET	39	61.000	45.764	62.450	1.00	0.00	H
ATOM	613	CA	MET	39	61.028	46.261	60.452	1.00	0.00	C
ATOM	614	HA	MET	39	61.691	46.840	59.808	1.00	0.00	H
ATOM	615	CB	MET	39	60.761	44.914	59.783	1.00	0.00	C
ATOM	616	HB2	MET	39	60.161	44.298	60.455	1.00	0.00	H
ATOM	617	HB3	MET	39	60.175	45.090	58.883	1.00	0.00	H
ATOM	618	CG	MET	39	62.015	44.137	59.408	1.00	0.00	C
ATOM	619	HG2	MET	39	62.626	44.738	58.735	1.00	0.00	H
ATOM	620	HG3	MET	39	62.593	43.944	60.309	1.00	0.00	H
ATOM	621	SD	MET	39	61.645	42.559	58.618	1.00	0.00	S
ATOM	622	CE	MET	39	61.044	43.111	57.024	1.00	0.00	C
ATOM	623	HE1	MET	39	60.936	42.250	56.366	1.00	0.00	H
ATOM	624	HE2	MET	39	60.077	43.597	57.135	1.00	0.00	H
ATOM	625	HE3	MET	39	61.756	43.811	56.585	1.00	0.00	H
ATOM	626	C	MET	39	59.766	47.041	60.619	1.00	0.00	C
ATOM	627	O	MET	39	59.122	46.960	61.679	1.00	0.00	O
ATOM	628	N	GLY	40	59.303	47.836	59.644	1.00	0.00	N

ATOM	629	H	GLY	40	59.836	47.914	58.790	1.00	0.00	H
ATOM	630	CA	GLY	40	58.037	48.572	59.689	1.00	0.00	C
ATOM	631	HA2	GLY	40	57.891	48.931	60.707	1.00	0.00	H
ATOM	632	HA3	GLY	40	58.123	49.444	59.042	1.00	0.00	H
ATOM	633	C	GLY	40	56.838	47.756	59.217	1.00	0.00	C
ATOM	634	O	GLY	40	56.865	46.805	58.458	1.00	0.00	O
ATOM	635	N	PRO	41	55.658	48.145	59.741	1.00	0.00	N
ATOM	636	CD	PRO	41	55.411	49.220	60.742	1.00	0.00	C
ATOM	637	HD2	PRO	41	55.836	50.176	60.435	1.00	0.00	H
ATOM	638	HD3	PRO	41	55.797	48.900	61.705	1.00	0.00	H
ATOM	639	CG	PRO	41	53.909	49.289	60.815	1.00	0.00	C
ATOM	640	HG2	PRO	41	53.547	49.992	60.064	1.00	0.00	H
ATOM	641	HG3	PRO	41	53.570	49.592	61.807	1.00	0.00	H
ATOM	642	CB	PRO	41	53.457	47.910	60.476	1.00	0.00	C
ATOM	643	HB2	PRO	41	52.425	47.911	60.126	1.00	0.00	H
ATOM	644	HB3	PRO	41	53.560	47.268	61.352	1.00	0.00	H
ATOM	645	CA	PRO	41	54.435	47.450	59.389	1.00	0.00	C
ATOM	646	HA	PRO	41	54.559	46.367	59.443	1.00	0.00	H
ATOM	647	C	PRO	41	53.965	47.856	57.986	1.00	0.00	C
ATOM	648	O	PRO	41	54.496	48.791	57.364	1.00	0.00	O
ATOM	649	N	LEU	42	52.909	47.192	57.469	1.00	0.00	N
ATOM	650	H	LEU	42	52.530	46.454	58.045	1.00	0.00	H
ATOM	651	CA	LEU	42	52.200	47.408	56.205	1.00	0.00	C
ATOM	652	HA	LEU	42	52.739	48.145	55.608	1.00	0.00	H
ATOM	653	CB	LEU	42	52.101	46.098	55.413	1.00	0.00	C
ATOM	654	HB2	LEU	42	51.475	45.404	55.976	1.00	0.00	H
ATOM	655	HB3	LEU	42	51.598	46.304	54.466	1.00	0.00	H
ATOM	656	CG	LEU	42	53.431	45.389	55.129	1.00	0.00	C
ATOM	657	HG	LEU	42	53.933	45.156	56.068	1.00	0.00	H
ATOM	658	CD1	LEU	42	53.164	44.079	54.401	1.00	0.00	C

ATOM	659	HD11	LEU	42	54.103	43.547	54.255	1.00	0.00	H
ATOM	660	HD12	LEU	42	52.481	43.461	54.980	1.00	0.00	H
ATOM	661	HD13	LEU	42	52.714	44.291	53.433	1.00	0.00	H
ATOM	662	CD2	LEU	42	54.326	46.301	54.303	1.00	0.00	C
ATOM	663	HD21	LEU	42	55.236	45.767	54.026	1.00	0.00	H
ATOM	664	HD22	LEU	42	53.797	46.595	53.401	1.00	0.00	H
ATOM	665	HD23	LEU	42	54.613	47.185	54.872	1.00	0.00	H
ATOM	666	C	LEU	42	50.795	47.965	56.486	1.00	0.00	C
ATOM	667	O	LEU	42	49.770	47.331	56.314	1.00	0.00	O
ATOM	668	N	VAL	43	50.749	49.284	56.828	1.00	0.00	N
ATOM	669	H	VAL	43	51.616	49.796	56.912	1.00	0.00	H
ATOM	670	CA	VAL	43	49.496	49.994	57.166	1.00	0.00	C
ATOM	671	HA	VAL	43	48.831	49.349	57.724	1.00	0.00	H
ATOM	672	CB	VAL	43	49.787	51.229	58.038	1.00	0.00	C
ATOM	673	HB	VAL	43	50.474	51.888	57.505	1.00	0.00	H
ATOM	674	CG1	VAL	43	48.505	52.000	58.315	1.00	0.00	C
ATOM	675	HG11	VAL	43	48.722	52.823	58.997	1.00	0.00	H
ATOM	676	HG12	VAL	43	48.097	52.429	57.399	1.00	0.00	H
ATOM	677	HG13	VAL	43	47.763	51.349	58.779	1.00	0.00	H
ATOM	678	CG2	VAL	43	50.449	50.800	59.339	1.00	0.00	C
ATOM	679	HG21	VAL	43	49.804	50.107	59.880	1.00	0.00	H
ATOM	680	HG22	VAL	43	51.408	50.322	59.142	1.00	0.00	H
ATOM	681	HG23	VAL	43	50.631	51.675	59.963	1.00	0.00	H
ATOM	682	C	VAL	43	48.778	50.429	55.873	1.00	0.00	C
ATOM	683	O	VAL	43	49.404	50.876	54.892	1.00	0.00	O
ATOM	684	N	PHE	44	47.515	50.051	55.716	1.00	0.00	N
ATOM	685	H	PHE	44	47.041	49.583	56.475	1.00	0.00	H
ATOM	686	CA	PHE	44	46.744	50.353	54.535	1.00	0.00	C
ATOM	687	HA	PHE	44	47.420	50.457	53.692	1.00	0.00	H
ATOM	688	CB	PHE	44	45.913	49.106	54.230	1.00	0.00	C

ATOM	689	HB2	PHE	44	45.380	48.783	55.127	1.00	0.00	H
ATOM	690	HB3	PHE	44	45.157	49.362	53.487	1.00	0.00	H
ATOM	691	CG	PHE	44	46.716	47.963	53.677	1.00	0.00	C
ATOM	692	CD1	PHE	44	47.341	47.061	54.526	1.00	0.00	C
ATOM	693	HD1	PHE	44	47.257	47.183	55.595	1.00	0.00	H
ATOM	694	CE1	PHE	44	48.081	46.010	54.018	1.00	0.00	C
ATOM	695	HE1	PHE	44	48.553	45.308	54.689	1.00	0.00	H
ATOM	696	CZ	PHE	44	48.203	45.847	52.655	1.00	0.00	C
ATOM	697	HZ	PHE	44	48.809	45.055	52.256	1.00	0.00	H
ATOM	698	CE2	PHE	44	47.586	46.736	51.798	1.00	0.00	C
ATOM	699	HE2	PHE	44	47.685	46.617	50.729	1.00	0.00	H
ATOM	700	CD2	PHE	44	46.849	47.787	52.308	1.00	0.00	C
ATOM	701	HD2	PHE	44	46.369	48.474	51.634	1.00	0.00	H
ATOM	702	C	PHE	44	45.798	51.583	54.459	1.00	0.00	C
ATOM	703	O	PHE	44	44.692	51.610	55.053	1.00	0.00	O
ATOM	704	N	SER	45	46.179	52.591	53.700	1.00	0.00	N
ATOM	705	H	SER	45	47.067	52.491	53.229	1.00	0.00	H
ATOM	706	CA	SER	45	45.510	53.879	53.485	1.00	0.00	C
ATOM	707	HA	SER	45	44.441	53.712	53.364	1.00	0.00	H
ATOM	708	CB	SER	45	45.727	54.808	54.664	1.00	0.00	C
ATOM	709	HB2	SER	45	45.318	54.346	55.563	1.00	0.00	H
ATOM	710	HB3	SER	45	46.795	54.977	54.808	1.00	0.00	H
ATOM	711	OG	SER	45	45.089	56.039	54.458	1.00	0.00	O
ATOM	712	HG	SER	45	45.544	56.511	53.756	1.00	0.00	H
ATOM	713	C	SER	45	46.060	54.505	52.210	1.00	0.00	C
ATOM	714	O	SER	45	47.258	54.432	51.989	1.00	0.00	O
ATOM	715	N	ARG	46	45.333	55.274	51.427	1.00	0.00	N
ATOM	716	H	ARG	46	44.359	55.428	51.647	1.00	0.00	H
ATOM	717	CA	ARG	46	45.862	55.902	50.187	1.00	0.00	C
ATOM	718	HA	ARG	46	46.949	55.976	50.218	1.00	0.00	H

ATOM	719	CB	ARG	46	45.482	55.102	48.950	1.00	0.00	C
ATOM	720	HB2	ARG	46	46.046	55.474	48.100	1.00	0.00	H
ATOM	721	HB3	ARG	46	45.784	54.065	49.105	1.00	0.00	H
ATOM	722	CG	ARG	46	44.005	55.139	48.593	1.00	0.00	C
ATOM	723	HG2	ARG	46	43.392	54.797	49.423	1.00	0.00	H
ATOM	724	HG3	ARG	46	43.772	56.169	48.369	1.00	0.00	H
ATOM	725	CD	ARG	46	43.715	54.350	47.368	1.00	0.00	C
ATOM	726	HD2	ARG	46	44.410	54.651	46.582	1.00	0.00	H
ATOM	727	HD3	ARG	46	43.865	53.291	47.583	1.00	0.00	H
ATOM	728	NE	ARG	46	42.357	54.562	46.894	1.00	0.00	N
ATOM	729	HE	ARG	46	41.770	55.176	47.440	1.00	0.00	H
ATOM	730	CZ	ARG	46	41.844	54.016	45.775	1.00	0.00	C
ATOM	731	NH1	ARG	46	42.586	53.230	45.026	1.00	0.00	N
ATOM	732	HH11	ARG	46	43.546	53.049	45.281	1.00	0.00	H
ATOM	733	HH12	ARG	46	42.195	52.822	44.192	1.00	0.00	H
ATOM	734	NH2	ARG	46	40.594	54.272	45.428	1.00	0.00	N
ATOM	735	HH21	ARG	46	40.194	53.839	44.607	1.00	0.00	H
ATOM	736	HH22	ARG	46	40.037	54.909	45.980	1.00	0.00	H
ATOM	737	C	ARG	46	45.298	57.329	50.076	1.00	0.00	C
ATOM	738	O	ARG	46	44.210	57.573	50.519	1.00	0.00	O
ATOM	739	N	ASP	47	45.939	58.169	49.267	1.00	0.00	N
ATOM	740	H	ASP	47	46.803	57.884	48.822	1.00	0.00	H
ATOM	741	CA	ASP	47	45.462	59.532	49.024	1.00	0.00	C
ATOM	742	HA	ASP	47	45.367	60.044	49.982	1.00	0.00	H
ATOM	743	CB	ASP	47	46.497	60.271	48.173	1.00	0.00	C
ATOM	744	HB2	ASP	47	46.768	59.665	47.307	1.00	0.00	H
ATOM	745	HB3	ASP	47	46.048	61.195	47.807	1.00	0.00	H
ATOM	746	CG	ASP	47	47.747	60.650	48.957	1.00	0.00	C
ATOM	747	OD1	ASP	47	47.722	60.551	50.161	1.00	0.00	O
ATOM	748	OD2	ASP	47	48.714	61.033	48.344	1.00	0.00	O

ATOM	749	C	ASP	47	44.039	59.613	48.328	1.00	0.00	C
ATOM	750	O	ASP	47	43.191	60.458	48.652	1.00	0.00	O
ATOM	751	N	CYS	48	43.737	58.639	47.423	1.00	0.00	N
ATOM	752	H	CYS	48	44.426	57.936	47.197	1.00	0.00	H
ATOM	753	CA	CYS	48	42.460	58.615	46.745	1.00	0.00	C
ATOM	754	HA	CYS	48	42.189	59.638	46.479	1.00	0.00	H
ATOM	755	CB	CYS	48	42.585	57.826	45.441	1.00	0.00	C
ATOM	756	HB2	CYS	48	43.313	58.327	44.802	1.00	0.00	H
ATOM	757	HB3	CYS	48	42.967	56.830	45.661	1.00	0.00	H
ATOM	758	SG	CYS	48	41.033	57.661	44.526	1.00	0.00	S
ATOM	759	HG	CYS	48	41.535	56.930	43.521	1.00	0.00	H
ATOM	760	C	CYS	48	41.333	58.019	47.565	1.00	0.00	C
ATOM	761	O	CYS	48	41.586	56.940	48.061	1.00	0.00	O
ATOM	762	N	LYS	49	40.211	58.728	47.762	1.00	0.00	N
ATOM	763	H	LYS	49	40.104	59.638	47.338	1.00	0.00	H
ATOM	764	CA	LYS	49	39.131	58.189	48.585	1.00	0.00	C
ATOM	765	HA	LYS	49	39.446	58.241	49.628	1.00	0.00	H
ATOM	766	CB	LYS	49	37.858	59.019	48.414	1.00	0.00	C
ATOM	767	HB2	LYS	49	38.111	60.064	48.599	1.00	0.00	H
ATOM	768	HB3	LYS	49	37.513	58.934	47.382	1.00	0.00	H
ATOM	769	CG	LYS	49	36.722	58.629	49.351	1.00	0.00	C
ATOM	770	HG2	LYS	49	36.396	57.612	49.133	1.00	0.00	H
ATOM	771	HG3	LYS	49	37.083	58.671	50.380	1.00	0.00	H
ATOM	772	CD	LYS	49	35.535	59.569	49.202	1.00	0.00	C
ATOM	773	HD2	LYS	49	35.869	60.598	49.348	1.00	0.00	H
ATOM	774	HD3	LYS	49	35.125	59.470	48.195	1.00	0.00	H
ATOM	775	CE	LYS	49	34.449	59.257	50.221	1.00	0.00	C
ATOM	776	HE2	LYS	49	34.112	58.227	50.097	1.00	0.00	H
ATOM	777	HE3	LYS	49	34.881	59.365	51.217	1.00	0.00	H
ATOM	778	NZ	LYS	49	33.290	60.182	50.100	1.00	0.00	N

ATOM	779	HZ1	LYS	49	33.619	61.120	49.929	1.00	0.00	H
ATOM	780	HZ2	LYS	49	32.702	59.889	49.333	1.00	0.00	H
ATOM	781	HZ3	LYS	49	32.756	60.172	50.957	1.00	0.00	H
ATOM	782	C	LYS	49	38.877	56.709	48.208	1.00	0.00	C
ATOM	783	O	LYS	49	38.830	56.334	47.031	1.00	0.00	O
ATOM	784	N	PHE	50	38.707	55.830	49.241	1.00	0.00	N
ATOM	785	H	PHE	50	38.794	56.169	50.188	1.00	0.00	H
ATOM	786	CA	PHE	50	38.405	54.413	49.060	1.00	0.00	C
ATOM	787	HA	PHE	50	39.199	53.941	48.511	1.00	0.00	H
ATOM	788	CB	PHE	50	38.160	53.759	50.421	1.00	0.00	C
ATOM	789	HB2	PHE	50	37.528	54.402	51.037	1.00	0.00	H
ATOM	790	HB3	PHE	50	37.631	52.819	50.261	1.00	0.00	H
ATOM	791	CG	PHE	50	39.420	53.415	51.164	1.00	0.00	C
ATOM	792	CD1	PHE	50	40.648	53.432	50.520	1.00	0.00	C
ATOM	793	HD1	PHE	50	40.806	53.706	49.511	1.00	0.00	H
ATOM	794	CE1	PHE	50	41.808	53.115	51.202	1.00	0.00	C
ATOM	795	HE1	PHE	50	42.759	53.122	50.695	1.00	0.00	H
ATOM	796	CZ	PHE	50	41.752	52.778	52.538	1.00	0.00	C
ATOM	797	HZ	PHE	50	42.649	52.501	53.071	1.00	0.00	H
ATOM	798	CE2	PHE	50	40.537	52.757	53.191	1.00	0.00	C
ATOM	799	HE2	PHE	50	40.496	52.499	54.240	1.00	0.00	H
ATOM	800	CD2	PHE	50	39.379	53.073	52.507	1.00	0.00	C
ATOM	801	HD2	PHE	50	38.435	53.049	53.031	1.00	0.00	H
ATOM	802	C	PHE	50	37.224	54.125	48.177	1.00	0.00	C
ATOM	803	O	PHE	50	37.277	53.183	47.315	1.00	0.00	O
ATOM	804	N	ALA	51	36.163	54.903	48.386	1.00	0.00	N
ATOM	805	H	ALA	51	36.255	55.598	49.111	1.00	0.00	H
ATOM	806	CA	ALA	51	34.891	54.941	47.654	1.00	0.00	C
ATOM	807	HA	ALA	51	34.707	53.931	47.283	1.00	0.00	H
ATOM	808	CB	ALA	51	33.865	55.173	48.744	1.00	0.00	C

ATOM	809	HB1	ALA	51	32.865	55.148	48.309	1.00	0.00	H
ATOM	810	HB2	ALA	51	33.934	54.391	49.502	1.00	0.00	H
ATOM	811	HB3	ALA	51	34.023	56.146	49.210	1.00	0.00	H
ATOM	812	C	ALA	51	34.886	55.835	46.434	1.00	0.00	C
ATOM	813	O	ALA	51	34.383	56.938	46.510	1.00	0.00	O
ATOM	814	N	ALA	52	35.517	55.390	45.344	1.00	0.00	N
ATOM	815	H	ALA	52	35.910	54.459	45.347	1.00	0.00	H
ATOM	816	CA	ALA	52	35.772	56.217	44.155	1.00	0.00	C
ATOM	817	HA	ALA	52	35.001	56.988	44.116	1.00	0.00	H
ATOM	818	CB	ALA	52	37.171	56.976	44.263	1.00	0.00	C
ATOM	819	HB1	ALA	52	37.304	57.640	43.408	1.00	0.00	H
ATOM	820	HB2	ALA	52	37.197	57.571	45.176	1.00	0.00	H
ATOM	821	HB3	ALA	52	37.982	56.247	44.281	1.00	0.00	H
ATOM	822	C	ALA	52	35.678	55.474	42.855	1.00	0.00	C
ATOM	823	O	ALA	52	35.882	54.260	42.791	1.00	0.00	O
ATOM	824	N	GLU	53	35.545	56.251	41.746	1.00	0.00	N
ATOM	825	H	GLU	53	35.368	57.229	41.844	1.00	0.00	H
ATOM	826	CA	GLU	53	35.503	55.564	40.403	1.00	0.00	C
ATOM	827	HA	GLU	53	34.784	54.744	40.445	1.00	0.00	H
ATOM	828	CB	GLU	53	35.070	56.533	39.301	1.00	0.00	C
ATOM	829	HB2	GLU	53	34.980	55.955	38.380	1.00	0.00	H
ATOM	830	HB3	GLU	53	34.081	56.935	39.522	1.00	0.00	H
ATOM	831	CG	GLU	53	36.052	57.667	39.039	1.00	0.00	C
ATOM	832	HG2	GLU	53	37.083	57.319	39.054	1.00	0.00	H
ATOM	833	HG3	GLU	53	35.857	58.039	38.032	1.00	0.00	H
ATOM	834	CD	GLU	53	35.881	58.819	39.989	1.00	0.00	C
ATOM	835	OE1	GLU	53	35.255	58.638	41.006	1.00	0.00	O
ATOM	836	OE2	GLU	53	36.377	59.882	39.698	1.00	0.00	O
ATOM	837	C	GLU	53	36.930	54.976	40.088	1.00	0.00	C
ATOM	838	O	GLU	53	36.930	54.058	39.279	1.00	0.00	O

ATOM	839	N	LYS	54	38.002	55.315	40.840	1.00	0.00	N
ATOM	840	H	LYS	54	37.865	56.004	41.566	1.00	0.00	H
ATOM	841	CA	LYS	54	39.312	54.851	40.642	1.00	0.00	C
ATOM	842	HA	LYS	54	39.442	54.609	39.591	1.00	0.00	H
ATOM	843	CB	LYS	54	40.292	55.983	40.952	1.00	0.00	C
ATOM	844	HB2	LYS	54	40.123	56.326	41.974	1.00	0.00	H
ATOM	845	HB3	LYS	54	41.304	55.579	40.897	1.00	0.00	H
ATOM	846	CG	LYS	54	40.199	57.172	40.005	1.00	0.00	C
ATOM	847	HG2	LYS	54	40.384	56.835	38.984	1.00	0.00	H
ATOM	848	HG3	LYS	54	39.199	57.603	40.059	1.00	0.00	H
ATOM	849	CD	LYS	54	41.208	58.251	40.371	1.00	0.00	C
ATOM	850	HD2	LYS	54	41.028	58.576	41.397	1.00	0.00	H
ATOM	851	HD3	LYS	54	42.216	57.839	40.303	1.00	0.00	H
ATOM	852	CE	LYS	54	41.095	59.453	39.446	1.00	0.00	C
ATOM	853	HE2	LYS	54	41.273	59.131	38.419	1.00	0.00	H
ATOM	854	HE3	LYS	54	40.080	59.850	39.512	1.00	0.00	H
ATOM	855	NZ	LYS	54	42.063	60.525	39.804	1.00	0.00	N
ATOM	856	HZ1	LYS	54	42.578	60.259	40.632	1.00	0.00	H
ATOM	857	HZ2	LYS	54	42.709	60.671	39.041	1.00	0.00	H
ATOM	858	HZ3	LYS	54	41.563	61.384	39.988	1.00	0.00	H
ATOM	859	C	LYS	54	39.589	53.570	41.529	1.00	0.00	C
ATOM	860	O	LYS	54	39.680	53.655	42.723	1.00	0.00	O
ATOM	861	N	THR	55	39.668	52.345	40.982	1.00	0.00	N
ATOM	862	H	THR	55	39.828	51.587	41.629	1.00	0.00	H
ATOM	863	CA	THR	55	39.484	51.934	39.624	1.00	0.00	C
ATOM	864	HA	THR	55	39.032	52.733	39.044	1.00	0.00	H
ATOM	865	CB	THR	55	40.842	51.609	38.975	1.00	0.00	C
ATOM	866	HB	THR	55	40.699	51.429	37.909	1.00	0.00	H
ATOM	867	CG2	THR	55	41.809	52.769	39.153	1.00	0.00	C
ATOM	868	HG21	THR	55	42.715	52.569	38.582	1.00	0.00	H

ATOM	869	HG22	THR	55	41.367	53.688	38.772	1.00	0.00	H
ATOM	870	HG23	THR	55	42.087	52.893	40.199	1.00	0.00	H
ATOM	871	OG1	THR	55	41.395	50.433	39.580	1.00	0.00	O
ATOM	872	HG1	THR	55	40.832	49.685	39.361	1.00	0.00	H
ATOM	873	C	THR	55	38.565	50.743	39.485	1.00	0.00	C
ATOM	874	O	THR	55	38.000	50.227	40.476	1.00	0.00	O
ATOM	875	N	SER	56	38.199	50.364	38.236	1.00	0.00	N
ATOM	876	H	SER	56	38.563	50.909	37.469	1.00	0.00	H
ATOM	877	CA	SER	56	37.524	49.102	37.840	1.00	0.00	C
ATOM	878	HA	SER	56	36.647	48.965	38.475	1.00	0.00	H
ATOM	879	CB	SER	56	37.059	49.176	36.398	1.00	0.00	C
ATOM	880	HB2	SER	56	36.451	48.301	36.166	1.00	0.00	H
ATOM	881	HB3	SER	56	36.448	50.069	36.261	1.00	0.00	H
ATOM	882	OG	SER	56	38.150	49.221	35.520	1.00	0.00	O
ATOM	883	HG	SER	56	38.594	48.370	35.542	1.00	0.00	H
ATOM	884	C	SER	56	38.450	47.907	38.011	1.00	0.00	C
ATOM	885	O	SER	56	39.710	48.080	38.049	1.00	0.00	O
ATOM	886	N	LEU	57	37.817	46.717	38.083	1.00	0.00	N
ATOM	887	H	LEU	57	36.809	46.649	38.036	1.00	0.00	H
ATOM	888	CA	LEU	57	38.620	45.497	38.313	1.00	0.00	C
ATOM	889	HA	LEU	57	39.683	45.699	38.181	1.00	0.00	H
ATOM	890	CB	LEU	57	38.407	44.968	39.737	1.00	0.00	C
ATOM	891	HB2	LEU	57	37.342	44.795	39.901	1.00	0.00	H
ATOM	892	HB3	LEU	57	38.890	43.991	39.786	1.00	0.00	H
ATOM	893	CG	LEU	57	38.984	45.837	40.862	1.00	0.00	C
ATOM	894	HG	LEU	57	39.838	46.400	40.491	1.00	0.00	H
ATOM	895	CD1	LEU	57	37.927	46.827	41.333	1.00	0.00	C
ATOM	896	HD11	LEU	57	38.309	47.386	42.184	1.00	0.00	H
ATOM	897	HD12	LEU	57	37.683	47.535	40.549	1.00	0.00	H
ATOM	898	HD13	LEU	57	37.024	46.292	41.624	1.00	0.00	H

ATOM	899	CD2	LEU	57	39.447	44.947	42.005	1.00	0.00	C
ATOM	900	HD21	LEU	57	39.805	45.564	42.830	1.00	0.00	H
ATOM	901	HD22	LEU	57	38.625	44.320	42.350	1.00	0.00	H
ATOM	902	HD23	LEU	57	40.269	44.319	41.668	1.00	0.00	H
ATOM	903	C	LEU	57	38.224	44.417	37.281	1.00	0.00	C
ATOM	904	O	LEU	57	37.162	44.505	36.674	1.00	0.00	O
ATOM	905	N	LYS	58	39.054	43.424	37.124	1.00	0.00	N
ATOM	906	H	LYS	58	39.889	43.419	37.691	1.00	0.00	H
ATOM	907	CA	LYS	58	38.842	42.247	36.268	1.00	0.00	C
ATOM	908	HA	LYS	58	37.847	42.293	35.821	1.00	0.00	H
ATOM	909	CB	LYS	58	39.873	42.228	35.139	1.00	0.00	C
ATOM	910	HB2	LYS	58	40.872	42.231	35.575	1.00	0.00	H
ATOM	911	HB3	LYS	58	39.753	41.300	34.578	1.00	0.00	H
ATOM	912	CG	LYS	58	39.758	43.391	34.162	1.00	0.00	C
ATOM	913	HG2	LYS	58	38.755	43.399	33.733	1.00	0.00	H
ATOM	914	HG3	LYS	58	39.920	44.331	34.692	1.00	0.00	H
ATOM	915	CD	LYS	58	40.781	43.275	33.042	1.00	0.00	C
ATOM	916	HD2	LYS	58	41.784	43.265	33.472	1.00	0.00	H
ATOM	917	HD3	LYS	58	40.619	42.340	32.503	1.00	0.00	H
ATOM	918	CE	LYS	58	40.668	44.437	32.066	1.00	0.00	C
ATOM	919	HE2	LYS	58	39.661	44.447	31.644	1.00	0.00	H
ATOM	920	HE3	LYS	58	40.826	45.371	32.608	1.00	0.00	H
ATOM	921	NZ	LYS	58	41.661	44.335	30.962	1.00	0.00	N
ATOM	922	HZ1	LYS	58	41.514	43.475	30.452	1.00	0.00	H
ATOM	923	HZ2	LYS	58	41.551	45.117	30.331	1.00	0.00	H
ATOM	924	HZ3	LYS	58	42.597	44.340	31.342	1.00	0.00	H
ATOM	925	C	LYS	58	38.915	40.920	37.115	1.00	0.00	C
ATOM	926	O	LYS	58	39.540	40.900	38.174	1.00	0.00	O
ATOM	927	N	ILE	59	38.457	39.804	36.543	1.00	0.00	N
ATOM	928	H	ILE	59	38.022	39.852	35.634	1.00	0.00	H

ATOM	929	CA	ILE	59	38.451	38.500	37.227	1.00	0.00	C
ATOM	930	HA	ILE	59	39.100	38.558	38.101	1.00	0.00	H
ATOM	931	CB	ILE	59	37.035	38.157	37.727	1.00	0.00	C
ATOM	932	HB	ILE	59	36.715	38.962	38.387	1.00	0.00	H
ATOM	933	CG2	ILE	59	36.070	38.047	36.557	1.00	0.00	C
ATOM	934	HG21	ILE	59	35.070	37.928	36.963	1.00	0.00	H
ATOM	935	HG22	ILE	59	36.089	38.944	35.942	1.00	0.00	H
ATOM	936	HG23	ILE	59	36.263	37.188	35.931	1.00	0.00	H
ATOM	937	CG1	ILE	59	37.055	36.856	38.534	1.00	0.00	C
ATOM	938	HG12	ILE	59	37.221	35.988	37.900	1.00	0.00	H
ATOM	939	HG13	ILE	59	37.863	36.917	39.256	1.00	0.00	H
ATOM	940	CD1	ILE	59	35.798	36.619	39.340	1.00	0.00	C
ATOM	941	HD11	ILE	59	34.976	36.302	38.703	1.00	0.00	H
ATOM	942	HD12	ILE	59	35.983	35.846	40.084	1.00	0.00	H
ATOM	943	HD13	ILE	59	35.511	37.535	39.844	1.00	0.00	H
ATOM	944	C	ILE	59	38.936	37.358	36.385	1.00	0.00	C
ATOM	945	O	ILE	59	38.544	37.229	35.215	1.00	0.00	O
ATOM	946	N	GLU	60	39.684	36.419	37.047	1.00	0.00	N
ATOM	947	H	GLU	60	39.880	36.570	38.026	1.00	0.00	H
ATOM	948	CA	GLU	60	40.232	35.223	36.466	1.00	0.00	C
ATOM	949	HA	GLU	60	39.823	35.102	35.462	1.00	0.00	H
ATOM	950	CB	GLU	60	41.748	35.378	36.328	1.00	0.00	C
ATOM	951	HB2	GLU	60	41.942	36.284	35.750	1.00	0.00	H
ATOM	952	HB3	GLU	60	42.183	35.507	37.321	1.00	0.00	H
ATOM	953	CG	GLU	60	42.438	34.212	35.634	1.00	0.00	C
ATOM	954	HG2	GLU	60	42.296	33.303	36.219	1.00	0.00	H
ATOM	955	HG3	GLU	60	41.980	34.066	34.654	1.00	0.00	H
ATOM	956	CD	GLU	60	43.915	34.431	35.452	1.00	0.00	C
ATOM	957	OE1	GLU	60	44.396	35.465	35.848	1.00	0.00	O
ATOM	958	OE2	GLU	60	44.562	33.563	34.915	1.00	0.00	O

ATOM	959	C	GLU	60	39.916	33.954	37.255	1.00	0.00	C
ATOM	960	O	GLU	60	40.229	33.766	38.434	1.00	0.00	O
ATOM	961	N	ASN	61	39.412	32.898	36.570	1.00	0.00	N
ATOM	962	H	ASN	61	39.224	33.034	35.588	1.00	0.00	H
ATOM	963	CA	ASN	61	39.053	31.617	37.092	1.00	0.00	C
ATOM	964	HA	ASN	61	38.948	31.679	38.176	1.00	0.00	H
ATOM	965	CB	ASN	61	37.743	31.113	36.516	1.00	0.00	C
ATOM	966	HB2	ASN	61	36.972	31.855	36.729	1.00	0.00	H
ATOM	967	HB3	ASN	61	37.820	31.010	35.433	1.00	0.00	H
ATOM	968	CG	ASN	61	37.321	29.796	37.104	1.00	0.00	C
ATOM	969	OD1	ASN	61	38.161	28.938	37.403	1.00	0.00	O
ATOM	970	ND2	ASN	61	36.037	29.618	37.278	1.00	0.00	N
ATOM	971	HD21	ASN	61	35.704	28.764	37.697	1.00	0.00	H
ATOM	972	HD22	ASN	61	35.389	30.354	37.030	1.00	0.00	H
ATOM	973	C	ASN	61	40.235	30.716	36.745	1.00	0.00	C
ATOM	974	O	ASN	61	40.371	30.072	35.688	1.00	0.00	O
ATOM	975	N	GLU	62	41.013	30.385	37.718	1.00	0.00	N
ATOM	976	H	GLU	62	40.852	30.807	38.622	1.00	0.00	H
ATOM	977	CA	GLU	62	42.250	29.540	37.596	1.00	0.00	C
ATOM	978	HA	GLU	62	42.668	29.684	36.598	1.00	0.00	H
ATOM	979	CB	GLU	62	43.291	30.030	38.605	1.00	0.00	C
ATOM	980	HB2	GLU	62	42.925	29.915	39.620	1.00	0.00	H
ATOM	981	HB3	GLU	62	44.170	29.395	38.500	1.00	0.00	H
ATOM	982	CG	GLU	62	43.753	31.464	38.385	1.00	0.00	C
ATOM	983	HG2	GLU	62	44.071	31.579	37.348	1.00	0.00	H
ATOM	984	HG3	GLU	62	42.915	32.141	38.565	1.00	0.00	H
ATOM	985	CD	GLU	62	44.896	31.853	39.281	1.00	0.00	C
ATOM	986	OE1	GLU	62	45.605	30.981	39.721	1.00	0.00	O
ATOM	987	OE2	GLU	62	45.060	33.026	39.525	1.00	0.00	O
ATOM	988	C	GLU	62	42.051	27.998	37.792	1.00	0.00	C

ATOM	989	O	GLU	62	43.028	27.236	37.989	1.00	0.00	O
ATOM	990	N	VAL	63	40.822	27.530	37.786	1.00	0.00	N
ATOM	991	H	VAL	63	40.055	28.170	37.625	1.00	0.00	H
ATOM	992	CA	VAL	63	40.479	26.067	38.060	1.00	0.00	C
ATOM	993	HA	VAL	63	39.417	25.936	37.850	1.00	0.00	H
ATOM	994	CB	VAL	63	41.282	25.143	37.125	1.00	0.00	C
ATOM	995	HB	VAL	63	42.356	25.237	37.221	1.00	0.00	H
ATOM	996	CG1	VAL	63	41.024	23.683	37.469	1.00	0.00	C
ATOM	997	HG11	VAL	63	41.526	23.060	36.728	1.00	0.00	H
ATOM	998	HG12	VAL	63	41.436	23.400	38.436	1.00	0.00	H
ATOM	999	HG13	VAL	63	39.965	23.460	37.410	1.00	0.00	H
ATOM	1000	CG2	VAL	63	40.917	25.428	35.676	1.00	0.00	C
ATOM	1001	HG21	VAL	63	39.891	25.119	35.483	1.00	0.00	H
ATOM	1002	HG22	VAL	63	41.025	26.485	35.436	1.00	0.00	H
ATOM	1003	HG23	VAL	63	41.582	24.867	35.020	1.00	0.00	H
ATOM	1004	C	VAL	63	40.725	25.580	39.454	1.00	0.00	C
ATOM	1005	O	VAL	63	40.015	24.779	40.062	1.00	0.00	O
ATOM	1006	N	ASN	64	41.858	25.973	39.973	1.00	0.00	N
ATOM	1007	H	ASN	64	42.394	26.605	39.413	1.00	0.00	H
ATOM	1008	CA	ASN	64	42.469	25.745	41.310	1.00	0.00	C
ATOM	1009	HA	ASN	64	42.209	24.735	41.626	1.00	0.00	H
ATOM	1010	CB	ASN	64	43.978	25.840	41.170	1.00	0.00	C
ATOM	1011	HB2	ASN	64	44.245	26.811	40.748	1.00	0.00	H
ATOM	1012	HB3	ASN	64	44.436	25.758	42.155	1.00	0.00	H
ATOM	1013	CG	ASN	64	44.547	24.749	40.306	1.00	0.00	C
ATOM	1014	OD1	ASN	64	45.704	24.993	39.744	1.00	0.00	O
ATOM	1015	ND2	ASN	64	43.939	23.684	40.148	1.00	0.00	N
ATOM	1016	HD21	ASN	64	43.025	23.559	40.550	1.00	0.00	H
ATOM	1017	HD22	ASN	64	44.339	22.998	39.527	1.00	0.00	H
ATOM	1018	C	ASN	64	41.998	26.672	42.489	1.00	0.00	C

ATOM	1019	O	ASN	64	41.729	26.246	43.609	1.00	0.00	O
ATOM	1020	N	THR	65	41.830	27.937	42.150	1.00	0.00	N
ATOM	1021	H	THR	65	42.016	28.160	41.182	1.00	0.00	H
ATOM	1022	CA	THR	65	41.510	29.115	42.972	1.00	0.00	C
ATOM	1023	HA	THR	65	40.820	28.815	43.761	1.00	0.00	H
ATOM	1024	CB	THR	65	42.777	29.694	43.630	1.00	0.00	C
ATOM	1025	HB	THR	65	43.298	28.897	44.161	1.00	0.00	H
ATOM	1026	CG2	THR	65	43.698	30.292	42.579	1.00	0.00	C
ATOM	1027	HG21	THR	65	44.618	30.626	43.060	1.00	0.00	H
ATOM	1028	HG22	THR	65	43.964	29.545	41.831	1.00	0.00	H
ATOM	1029	HG23	THR	65	43.242	31.153	42.089	1.00	0.00	H
ATOM	1030	OG1	THR	65	42.407	30.710	44.571	1.00	0.00	O
ATOM	1031	HG1	THR	65	42.284	31.535	44.094	1.00	0.00	H
ATOM	1032	C	THR	65	40.811	30.200	42.085	1.00	0.00	C
ATOM	1033	O	THR	65	40.825	30.152	40.835	1.00	0.00	O
ATOM	1034	N	ILE	66	40.143	31.206	42.709	1.00	0.00	N
ATOM	1035	H	ILE	66	40.112	31.262	43.717	1.00	0.00	H
ATOM	1036	CA	ILE	66	39.615	32.368	41.898	1.00	0.00	C
ATOM	1037	HA	ILE	66	39.749	32.189	40.833	1.00	0.00	H
ATOM	1038	CB	ILE	66	38.112	32.577	42.158	1.00	0.00	C
ATOM	1039	HB	ILE	66	37.969	32.859	43.203	1.00	0.00	H
ATOM	1040	CG2	ILE	66	37.571	33.694	41.279	1.00	0.00	C
ATOM	1041	HG21	ILE	66	36.482	33.725	41.343	1.00	0.00	H
ATOM	1042	HG22	ILE	66	37.956	34.657	41.617	1.00	0.00	H
ATOM	1043	HG23	ILE	66	37.865	33.552	40.238	1.00	0.00	H
ATOM	1044	CG1	ILE	66	37.342	31.276	41.913	1.00	0.00	C
ATOM	1045	HG12	ILE	66	37.699	30.486	42.573	1.00	0.00	H
ATOM	1046	HG13	ILE	66	36.296	31.443	42.170	1.00	0.00	H
ATOM	1047	CD1	ILE	66	37.402	30.791	40.483	1.00	0.00	C
ATOM	1048	HD11	ILE	66	36.830	29.867	40.407	1.00	0.00	H

ATOM	1049	HD12	ILE	66	36.952	31.513	39.803	1.00	0.00	H
ATOM	1050	HD13	ILE	66	38.420	30.576	40.174	1.00	0.00	H
ATOM	1051	C	ILE	66	40.411	33.706	42.235	1.00	0.00	C
ATOM	1052	O	ILE	66	40.574	34.120	43.389	1.00	0.00	O
ATOM	1053	N	SER	67	40.941	34.407	41.221	1.00	0.00	N
ATOM	1054	H	SER	67	40.814	34.060	40.280	1.00	0.00	H
ATOM	1055	CA	SER	67	41.680	35.677	41.360	1.00	0.00	C
ATOM	1056	HA	SER	67	41.857	35.869	42.417	1.00	0.00	H
ATOM	1057	CB	SER	67	43.042	35.514	40.715	1.00	0.00	C
ATOM	1058	HB2	SER	67	42.917	35.217	39.674	1.00	0.00	H
ATOM	1059	HB3	SER	67	43.583	36.460	40.748	1.00	0.00	H
ATOM	1060	OG	SER	67	43.802	34.545	41.383	1.00	0.00	O
ATOM	1061	HG	SER	67	44.306	34.042	40.727	1.00	0.00	H
ATOM	1062	C	SER	67	41.032	36.940	40.788	1.00	0.00	C
ATOM	1063	O	SER	67	40.245	36.860	39.816	1.00	0.00	O
ATOM	1064	N	VAL	68	41.380	38.060	41.439	1.00	0.00	N
ATOM	1065	H	VAL	68	42.028	37.984	42.208	1.00	0.00	H
ATOM	1066	CA	VAL	68	40.884	39.393	41.114	1.00	0.00	C
ATOM	1067	HA	VAL	68	40.146	39.330	40.313	1.00	0.00	H
ATOM	1068	CB	VAL	68	40.235	40.067	42.337	1.00	0.00	C
ATOM	1069	HB	VAL	68	40.957	40.129	43.149	1.00	0.00	H
ATOM	1070	CG1	VAL	68	39.803	41.486	41.997	1.00	0.00	C
ATOM	1071	HG11	VAL	68	39.271	41.923	42.842	1.00	0.00	H
ATOM	1072	HG12	VAL	68	40.679	42.100	41.794	1.00	0.00	H
ATOM	1073	HG13	VAL	68	39.150	41.484	41.124	1.00	0.00	H
ATOM	1074	CG2	VAL	68	39.050	39.243	42.815	1.00	0.00	C
ATOM	1075	HG21	VAL	68	38.556	39.754	43.641	1.00	0.00	H
ATOM	1076	HG22	VAL	68	38.335	39.113	42.001	1.00	0.00	H
ATOM	1077	HG23	VAL	68	39.381	38.263	43.157	1.00	0.00	H
ATOM	1078	C	VAL	68	42.083	40.204	40.630	1.00	0.00	C

ATOM	1079	O	VAL	68	43.084	40.360	41.290	1.00	0.00	O
ATOM	1080	N	ARG	69	41.962	40.912	39.509	1.00	0.00	N
ATOM	1081	H	ARG	69	41.102	40.811	38.995	1.00	0.00	H
ATOM	1082	CA	ARG	69	42.946	41.874	38.951	1.00	0.00	C
ATOM	1083	HA	ARG	69	43.826	41.843	39.586	1.00	0.00	H
ATOM	1084	CB	ARG	69	43.375	41.384	37.576	1.00	0.00	C
ATOM	1085	HB2	ARG	69	42.488	41.287	36.950	1.00	0.00	H
ATOM	1086	HB3	ARG	69	44.027	42.132	37.120	1.00	0.00	H
ATOM	1087	CG	ARG	69	44.125	40.062	37.573	1.00	0.00	C
ATOM	1088	HG2	ARG	69	45.037	40.168	38.163	1.00	0.00	H
ATOM	1089	HG3	ARG	69	43.503	39.291	38.030	1.00	0.00	H
ATOM	1090	CD	ARG	69	44.473	39.630	36.195	1.00	0.00	C
ATOM	1091	HD2	ARG	69	43.555	39.561	35.610	1.00	0.00	H
ATOM	1092	HD3	ARG	69	45.114	40.376	35.724	1.00	0.00	H
ATOM	1093	NE	ARG	69	45.110	38.323	36.180	1.00	0.00	N
ATOM	1094	HE	ARG	69	44.516	37.507	36.085	1.00	0.00	H
ATOM	1095	CZ	ARG	69	46.436	38.117	36.294	1.00	0.00	C
ATOM	1096	NH1	ARG	69	47.251	39.140	36.430	1.00	0.00	N
ATOM	1097	HH11	ARG	69	48.243	38.980	36.513	1.00	0.00	H
ATOM	1098	HH12	ARG	69	46.873	40.071	36.493	1.00	0.00	H
ATOM	1099	NH2	ARG	69	46.919	36.887	36.269	1.00	0.00	N
ATOM	1100	HH21	ARG	69	47.904	36.713	36.374	1.00	0.00	H
ATOM	1101	HH22	ARG	69	46.276	36.107	36.164	1.00	0.00	H
ATOM	1102	C	ARG	69	42.574	43.341	38.794	1.00	0.00	C
ATOM	1103	O	ARG	69	41.412	43.674	38.700	1.00	0.00	O
ATOM	1104	N	PHE	70	43.554	44.201	38.996	1.00	0.00	N
ATOM	1105	H	PHE	70	44.495	43.876	39.171	1.00	0.00	H
ATOM	1106	CA	PHE	70	43.304	45.618	38.999	1.00	0.00	C
ATOM	1107	HA	PHE	70	42.488	45.844	38.310	1.00	0.00	H
ATOM	1108	CB	PHE	70	42.857	46.034	40.401	1.00	0.00	C

ATOM	1109	HB2 PHE	70	42.739	47.117	40.454	1.00	0.00	H
ATOM	1110	HB3 PHE	70	41.880	45.600	40.583	1.00	0.00	H
ATOM	1111	CG PHE	70	43.773	45.564	41.494	1.00	0.00	C
ATOM	1112	CD1 PHE	70	44.768	46.393	41.990	1.00	0.00	C
ATOM	1113	HD1 PHE	70	44.887	47.392	41.596	1.00	0.00	H
ATOM	1114	CE1 PHE	70	45.612	45.961	42.996	1.00	0.00	C
ATOM	1115	HE1 PHE	70	46.360	46.629	43.398	1.00	0.00	H
ATOM	1116	CZ PHE	70	45.470	44.694	43.519	1.00	0.00	C
ATOM	1117	HZ PHE	70	46.116	44.351	44.310	1.00	0.00	H
ATOM	1118	CE2 PHE	70	44.484	43.857	43.035	1.00	0.00	C
ATOM	1119	HE2 PHE	70	44.367	42.867	43.441	1.00	0.00	H
ATOM	1120	CD2 PHE	70	43.643	44.291	42.029	1.00	0.00	C
ATOM	1121	HD2 PHE	70	42.870	43.626	41.673	1.00	0.00	H
ATOM	1122	C PHE	70	44.493	46.494	38.564	1.00	0.00	C
ATOM	1123	O PHE	70	45.627	46.000	38.481	1.00	0.00	O
ATOM	1124	N ILE	71	44.263	47.812	38.302	1.00	0.00	N
ATOM	1125	H ILE	71	43.318	48.122	38.478	1.00	0.00	H
ATOM	1126	CA ILE	71	45.110	48.849	37.740	1.00	0.00	C
ATOM	1127	HA ILE	71	45.464	48.493	36.777	1.00	0.00	H
ATOM	1128	CB ILE	71	44.311	50.151	37.548	1.00	0.00	C
ATOM	1129	HB ILE	71	43.904	50.459	38.512	1.00	0.00	H
ATOM	1130	CG2 ILE	71	45.219	51.263	37.045	1.00	0.00	C
ATOM	1131	HG21 ILE	71	44.625	52.151	36.827	1.00	0.00	H
ATOM	1132	HG22 ILE	71	45.957	51.533	37.795	1.00	0.00	H
ATOM	1133	HG23 ILE	71	45.746	50.969	36.141	1.00	0.00	H
ATOM	1134	CG1 ILE	71	43.148	49.925	36.578	1.00	0.00	C
ATOM	1135	HG12 ILE	71	42.449	49.198	36.992	1.00	0.00	H
ATOM	1136	HG13 ILE	71	42.603	50.863	36.467	1.00	0.00	H
ATOM	1137	CD1 ILE	71	43.579	49.467	35.203	1.00	0.00	C
ATOM	1138	HD11 ILE	71	42.696	49.409	34.565	1.00	0.00	H

ATOM	1139	HD12	ILE	71	44.268	50.173	34.742	1.00	0.00	H
ATOM	1140	HD13	ILE	71	44.026	48.475	35.236	1.00	0.00	H
ATOM	1141	C	ILE	71	46.332	49.126	38.615	1.00	0.00	C
ATOM	1142	O	ILE	71	46.051	49.211	39.814	1.00	0.00	O
ATOM	1143	N	PRO	72	47.598	49.124	38.159	1.00	0.00	N
ATOM	1144	CD	PRO	72	47.969	48.931	36.725	1.00	0.00	C
ATOM	1145	HD2	PRO	72	47.391	49.565	36.056	1.00	0.00	H
ATOM	1146	HD3	PRO	72	47.850	47.880	36.458	1.00	0.00	H
ATOM	1147	CG	PRO	72	49.424	49.314	36.680	1.00	0.00	C
ATOM	1148	HG2	PRO	72	49.514	50.387	36.504	1.00	0.00	H
ATOM	1149	HG3	PRO	72	49.955	48.763	35.902	1.00	0.00	H
ATOM	1150	CB	PRO	72	49.940	48.973	38.036	1.00	0.00	C
ATOM	1151	HB2	PRO	72	50.871	49.494	38.255	1.00	0.00	H
ATOM	1152	HB3	PRO	72	50.101	47.898	38.075	1.00	0.00	H
ATOM	1153	CA	PRO	72	48.799	49.363	38.981	1.00	0.00	C
ATOM	1154	HA	PRO	72	48.799	48.719	39.861	1.00	0.00	H
ATOM	1155	C	PRO	72	48.892	50.856	39.418	1.00	0.00	C
ATOM	1156	O	PRO	72	49.640	51.683	38.846	1.00	0.00	O
ATOM	1157	N	LEU	73	48.053	51.209	40.342	1.00	0.00	N
ATOM	1158	H	LEU	73	47.459	50.495	40.742	1.00	0.00	H
ATOM	1159	CA	LEU	73	47.859	52.561	40.832	1.00	0.00	C
ATOM	1160	HA	LEU	73	48.548	53.228	40.316	1.00	0.00	H
ATOM	1161	CB	LEU	73	46.425	52.995	40.503	1.00	0.00	C
ATOM	1162	HB2	LEU	73	46.289	52.921	39.427	1.00	0.00	H
ATOM	1163	HB3	LEU	73	45.729	52.293	40.967	1.00	0.00	H
ATOM	1164	CG	LEU	73	46.049	54.422	40.923	1.00	0.00	C
ATOM	1165	HG	LEU	73	46.187	54.590	41.987	1.00	0.00	H
ATOM	1166	CD1	LEU	73	46.926	55.418	40.177	1.00	0.00	C
ATOM	1167	HD11	LEU	73	46.595	56.433	40.397	1.00	0.00	H
ATOM	1168	HD12	LEU	73	47.962	55.333	40.505	1.00	0.00	H

ATOM	1169	HD13	LEU	73	46.867	55.248	39.101	1.00	0.00	H
ATOM	1170	CD2	LEU	73	44.575	54.665	40.633	1.00	0.00	C
ATOM	1171	HD21	LEU	73	44.307	55.682	40.922	1.00	0.00	H
ATOM	1172	HD22	LEU	73	44.372	54.528	39.570	1.00	0.00	H
ATOM	1173	HD23	LEU	73	43.969	53.969	41.213	1.00	0.00	H
ATOM	1174	C	LEU	73	48.138	52.715	42.389	1.00	0.00	C
ATOM	1175	O	LEU	73	47.165	52.719	43.078	1.00	0.00	O
ATOM	1176	N	ASP	74	49.372	52.721	42.923	1.00	0.00	N
ATOM	1177	H	ASP	74	50.148	52.639	42.291	1.00	0.00	H
ATOM	1178	CA	ASP	74	49.724	52.942	44.337	1.00	0.00	C
ATOM	1179	HA	ASP	74	48.824	52.913	44.952	1.00	0.00	H
ATOM	1180	CB	ASP	74	50.687	51.864	44.840	1.00	0.00	C
ATOM	1181	HB2	ASP	74	51.654	51.966	44.354	1.00	0.00	H
ATOM	1182	HB3	ASP	74	50.838	52.009	45.910	1.00	0.00	H
ATOM	1183	CG	ASP	74	50.154	50.452	44.637	1.00	0.00	C
ATOM	1184	OD1	ASP	74	48.964	50.302	44.489	1.00	0.00	O
ATOM	1185	OD2	ASP	74	50.942	49.536	44.631	1.00	0.00	O
ATOM	1186	C	ASP	74	50.366	54.362	44.458	1.00	0.00	C
ATOM	1187	O	ASP	74	50.715	54.951	43.448	1.00	0.00	O
ATOM	1188	N	ASP	75	50.392	54.926	45.638	1.00	0.00	N
ATOM	1189	H	ASP	75	50.050	54.428	46.448	1.00	0.00	H
ATOM	1190	CA	ASP	75	50.863	56.355	45.817	1.00	0.00	C
ATOM	1191	HA	ASP	75	50.722	56.897	44.882	1.00	0.00	H
ATOM	1192	CB	ASP	75	49.994	57.048	46.869	1.00	0.00	C
ATOM	1193	HB2	ASP	75	50.032	56.462	47.782	1.00	0.00	H
ATOM	1194	HB3	ASP	75	50.397	58.040	47.078	1.00	0.00	H
ATOM	1195	CG	ASP	75	48.546	57.211	46.427	1.00	0.00	C
ATOM	1196	OD1	ASP	75	48.325	57.460	45.265	1.00	0.00	O
ATOM	1197	OD2	ASP	75	47.675	57.086	47.254	1.00	0.00	O
ATOM	1198	C	ASP	75	52.348	56.564	46.220	1.00	0.00	C

ATOM	1199	O	ASP	75	52.967	57.596	45.919	1.00	0.00	O
ATOM	1200	N	PRO	76	53.090	55.627	46.875	1.00	0.00	N
ATOM	1201	CD	PRO	76	52.558	54.330	47.390	1.00	0.00	C
ATOM	1202	HD2	PRO	76	52.164	53.690	46.607	1.00	0.00	H
ATOM	1203	HD3	PRO	76	51.841	54.532	48.178	1.00	0.00	H
ATOM	1204	CG	PRO	76	53.771	53.645	47.960	1.00	0.00	C
ATOM	1205	HG2	PRO	76	54.273	53.102	47.161	1.00	0.00	H
ATOM	1206	HG3	PRO	76	53.503	52.964	48.766	1.00	0.00	H
ATOM	1207	CB	PRO	76	54.635	54.760	48.441	1.00	0.00	C
ATOM	1208	HB2	PRO	76	55.677	54.468	48.528	1.00	0.00	H
ATOM	1209	HB3	PRO	76	54.284	55.113	49.403	1.00	0.00	H
ATOM	1210	CA	PRO	76	54.484	55.842	47.367	1.00	0.00	C
ATOM	1211	HA	PRO	76	54.575	56.824	47.832	1.00	0.00	H
ATOM	1212	C	PRO	76	55.555	55.687	46.300	1.00	0.00	C
ATOM	1213	O	PRO	76	55.340	55.118	45.268	1.00	0.00	O
ATOM	1214	N	THR	77	56.743	56.182	46.522	1.00	0.00	N
ATOM	1215	H	THR	77	56.867	56.718	47.368	1.00	0.00	H
ATOM	1216	CA	THR	77	57.980	55.816	45.820	1.00	0.00	C
ATOM	1217	HA	THR	77	57.922	54.767	45.523	1.00	0.00	H
ATOM	1218	CB	THR	77	58.168	56.679	44.559	1.00	0.00	C
ATOM	1219	HB	THR	77	58.259	57.728	44.843	1.00	0.00	H
ATOM	1220	CG2	THR	77	59.422	56.259	43.807	1.00	0.00	C
ATOM	1221	HG21	THR	77	59.468	56.780	42.850	1.00	0.00	H
ATOM	1222	HG22	THR	77	60.312	56.521	44.378	1.00	0.00	H
ATOM	1223	HG23	THR	77	59.411	55.183	43.625	1.00	0.00	H
ATOM	1224	OG1	THR	77	57.029	56.532	43.701	1.00	0.00	O
ATOM	1225	HG1	THR	77	56.766	55.608	43.710	1.00	0.00	H
ATOM	1226	C	THR	77	59.216	55.985	46.831	1.00	0.00	C
ATOM	1227	O	THR	77	59.250	56.793	47.736	1.00	0.00	O
ATOM	1228	N	ASN	78	60.188	55.004	46.781	1.00	0.00	N

ATOM	1229	H	ASN	78	60.111	54.256	46.106	1.00	0.00	H
ATOM	1230	CA	ASN	78	61.392	55.088	47.588	1.00	0.00	C
ATOM	1231	HA	ASN	78	61.964	54.197	47.332	1.00	0.00	H
ATOM	1232	CB	ASN	78	62.176	56.324	47.187	1.00	0.00	C
ATOM	1233	HB2	ASN	78	62.197	56.381	46.098	1.00	0.00	H
ATOM	1234	HB3	ASN	78	61.710	57.237	47.559	1.00	0.00	H
ATOM	1235	CG	ASN	78	63.608	56.274	47.642	1.00	0.00	C
ATOM	1236	OD1	ASN	78	64.168	57.419	47.935	1.00	0.00	O
ATOM	1237	ND2	ASN	78	64.207	55.195	47.728	1.00	0.00	N
ATOM	1238	HD21	ASN	78	63.722	54.354	47.453	1.00	0.00	H
ATOM	1239	HD22	ASN	78	65.178	55.165	47.998	1.00	0.00	H
ATOM	1240	C	ASN	78	61.197	55.090	49.084	1.00	0.00	C
ATOM	1241	O	ASN	78	61.779	55.898	49.731	1.00	0.00	O
ATOM	1242	N	LYS	79	60.442	54.126	49.549	1.00	0.00	N
ATOM	1243	H	LYS	79	60.066	53.499	48.853	1.00	0.00	H
ATOM	1244	CA	LYS	79	59.974	53.853	50.902	1.00	0.00	C
ATOM	1245	HA	LYS	79	60.407	54.578	51.590	1.00	0.00	H
ATOM	1246	CB	LYS	79	58.449	53.943	50.980	1.00	0.00	C
ATOM	1247	HB2	LYS	79	58.057	53.162	50.342	1.00	0.00	H
ATOM	1248	HB3	LYS	79	58.133	53.740	52.003	1.00	0.00	H
ATOM	1249	CG	LYS	79	57.874	55.279	50.529	1.00	0.00	C
ATOM	1250	HG2	LYS	79	58.251	55.525	49.544	1.00	0.00	H
ATOM	1251	HG3	LYS	79	56.797	55.216	50.421	1.00	0.00	H
ATOM	1252	CD	LYS	79	58.224	56.390	51.507	1.00	0.00	C
ATOM	1253	HD2	LYS	79	57.895	56.107	52.508	1.00	0.00	H
ATOM	1254	HD3	LYS	79	59.304	56.541	51.515	1.00	0.00	H
ATOM	1255	CE	LYS	79	57.553	57.700	51.122	1.00	0.00	C
ATOM	1256	HE2	LYS	79	57.846	57.968	50.105	1.00	0.00	H
ATOM	1257	HE3	LYS	79	56.471	57.555	51.144	1.00	0.00	H
ATOM	1258	NZ	LYS	79	57.914	58.805	52.052	1.00	0.00	N

ATOM	1259	HZ1	LYS	79	57.727	58.520	53.002	1.00	0.00	H
ATOM	1260	HZ2	LYS	79	58.892	59.033	51.947	1.00	0.00	H
ATOM	1261	HZ3	LYS	79	57.349	59.614	51.835	1.00	0.00	H
ATOM	1262	C	LYS	79	60.471	52.450	51.324	1.00	0.00	C
ATOM	1263	O	LYS	79	61.504	52.030	50.730	1.00	0.00	O
ATOM	1264	N	PHE	80	60.032	51.923	52.473	1.00	0.00	N
ATOM	1265	H	PHE	80	59.272	52.404	52.931	1.00	0.00	H
ATOM	1266	CA	PHE	80	60.427	50.633	53.091	1.00	0.00	C
ATOM	1267	HA	PHE	80	61.462	50.737	53.411	1.00	0.00	H
ATOM	1268	CB	PHE	80	59.568	50.356	54.327	1.00	0.00	C
ATOM	1269	HB2	PHE	80	59.505	51.253	54.945	1.00	0.00	H
ATOM	1270	HB3	PHE	80	58.577	50.085	53.996	1.00	0.00	H
ATOM	1271	CG	PHE	80	60.064	49.213	55.166	1.00	0.00	C
ATOM	1272	CD1	PHE	80	61.087	49.400	56.083	1.00	0.00	C
ATOM	1273	HD1	PHE	80	61.513	50.383	56.220	1.00	0.00	H
ATOM	1274	CE1	PHE	80	61.545	48.349	56.856	1.00	0.00	C
ATOM	1275	HE1	PHE	80	62.361	48.501	57.547	1.00	0.00	H
ATOM	1276	CZ	PHE	80	60.983	47.097	56.719	1.00	0.00	C
ATOM	1277	HZ	PHE	80	61.332	46.281	57.328	1.00	0.00	H
ATOM	1278	CE2	PHE	80	59.964	46.896	55.809	1.00	0.00	C
ATOM	1279	HE2	PHE	80	59.517	45.918	55.703	1.00	0.00	H
ATOM	1280	CD2	PHE	80	59.510	47.948	55.038	1.00	0.00	C
ATOM	1281	HD2	PHE	80	58.702	47.785	54.343	1.00	0.00	H
ATOM	1282	C	PHE	80	60.307	49.446	52.110	1.00	0.00	C
ATOM	1283	O	PHE	80	59.392	49.449	51.281	1.00	0.00	O
ATOM	1284	N	PRO	81	61.216	48.392	52.131	1.00	0.00	N
ATOM	1285	CD	PRO	81	62.398	48.278	52.991	1.00	0.00	C
ATOM	1286	HD2	PRO	81	62.116	47.907	53.974	1.00	0.00	H
ATOM	1287	HD3	PRO	81	62.951	49.214	53.062	1.00	0.00	H
ATOM	1288	CG	PRO	81	63.211	47.235	52.272	1.00	0.00	C

ATOM	1289	HG2	PRO	81	63.829	46.674	52.972	1.00	0.00	H
ATOM	1290	HG3	PRO	81	63.825	47.717	51.510	1.00	0.00	H
ATOM	1291	CB	PRO	81	62.197	46.361	51.616	1.00	0.00	C
ATOM	1292	HB2	PRO	81	61.813	45.653	52.352	1.00	0.00	H
ATOM	1293	HB3	PRO	81	62.627	45.834	50.766	1.00	0.00	H
ATOM	1294	CA	PRO	81	61.092	47.329	51.181	1.00	0.00	C
ATOM	1295	HA	PRO	81	61.310	47.721	50.193	1.00	0.00	H
ATOM	1296	C	PRO	81	59.752	46.673	51.219	1.00	0.00	C
ATOM	1297	O	PRO	81	59.067	46.661	52.172	1.00	0.00	O
ATOM	1298	N	SER	82	59.470	46.089	50.049	1.00	0.00	N
ATOM	1299	H	SER	82	60.168	46.118	49.319	1.00	0.00	H
ATOM	1300	CA	SER	82	58.164	45.519	49.688	1.00	0.00	C
ATOM	1301	HA	SER	82	58.345	44.657	49.045	1.00	0.00	H
ATOM	1302	CB	SER	82	57.477	45.023	50.945	1.00	0.00	C
ATOM	1303	HB2	SER	82	56.662	44.368	50.648	1.00	0.00	H
ATOM	1304	HB3	SER	82	58.156	44.434	51.560	1.00	0.00	H
ATOM	1305	OG	SER	82	56.937	46.090	51.676	1.00	0.00	O
ATOM	1306	HG	SER	82	57.683	46.551	52.085	1.00	0.00	H
ATOM	1307	C	SER	82	57.217	46.471	48.951	1.00	0.00	C
ATOM	1308	O	SER	82	57.542	47.614	48.705	1.00	0.00	O
ATOM	1309	N	LEU	83	56.080	45.964	48.501	1.00	0.00	N
ATOM	1310	H	LEU	83	55.893	44.999	48.731	1.00	0.00	H
ATOM	1311	CA	LEU	83	55.009	46.625	47.678	1.00	0.00	C
ATOM	1312	HA	LEU	83	55.027	47.699	47.857	1.00	0.00	H
ATOM	1313	CB	LEU	83	55.181	46.358	46.177	1.00	0.00	C
ATOM	1314	HB2	LEU	83	56.154	46.743	45.866	1.00	0.00	H
ATOM	1315	HB3	LEU	83	55.202	45.276	46.034	1.00	0.00	H
ATOM	1316	CG	LEU	83	54.094	46.945	45.268	1.00	0.00	C
ATOM	1317	HG	LEU	83	53.107	46.659	45.632	1.00	0.00	H
ATOM	1318	CD1	LEU	83	54.200	48.464	45.264	1.00	0.00	C

ATOM	1319	HD11	LEU	83	53.474	48.885	44.569	1.00	0.00	H
ATOM	1320	HD12	LEU	83	53.990	48.864	46.256	1.00	0.00	H
ATOM	1321	HD13	LEU	83	55.200	48.776	44.958	1.00	0.00	H
ATOM	1322	CD2	LEU	83	54.249	46.382	43.863	1.00	0.00	C
ATOM	1323	HD21	LEU	83	53.508	46.819	43.204	1.00	0.00	H
ATOM	1324	HD22	LEU	83	55.242	46.612	43.475	1.00	0.00	H
ATOM	1325	HD23	LEU	83	54.096	45.303	43.886	1.00	0.00	H
ATOM	1326	C	LEU	83	53.679	46.020	48.204	1.00	0.00	C
ATOM	1327	O	LEU	83	53.604	44.764	48.289	1.00	0.00	O
ATOM	1328	N	CYS	84	52.689	46.904	48.424	1.00	0.00	N
ATOM	1329	H	CYS	84	52.934	47.879	48.327	1.00	0.00	H
ATOM	1330	CA	CYS	84	51.264	46.663	48.476	1.00	0.00	C
ATOM	1331	HA	CYS	84	51.000	45.978	47.671	1.00	0.00	H
ATOM	1332	CB	CYS	84	50.876	46.029	49.812	1.00	0.00	C
ATOM	1333	HB2	CYS	84	49.807	45.815	49.803	1.00	0.00	H
ATOM	1334	HB3	CYS	84	51.405	45.082	49.919	1.00	0.00	H
ATOM	1335	SG	CYS	84	51.241	47.061	51.252	1.00	0.00	S
ATOM	1336	HG	CYS	84	52.569	47.000	51.133	1.00	0.00	H
ATOM	1337	C	CYS	84	50.497	47.979	48.279	1.00	0.00	C
ATOM	1338	O	CYS	84	51.101	49.048	48.376	1.00	0.00	O
ATOM	1339	N	THR	85	49.176	47.961	48.070	1.00	0.00	N
ATOM	1340	H	THR	85	48.667	47.093	48.004	1.00	0.00	H
ATOM	1341	CA	THR	85	48.484	49.225	47.770	1.00	0.00	C
ATOM	1342	HA	THR	85	49.106	49.809	47.089	1.00	0.00	H
ATOM	1343	CB	THR	85	47.158	48.946	47.039	1.00	0.00	C
ATOM	1344	HB	THR	85	46.533	48.297	47.654	1.00	0.00	H
ATOM	1345	CG2	THR	85	46.412	50.244	46.774	1.00	0.00	C
ATOM	1346	HG21	THR	85	46.136	50.758	47.688	1.00	0.00	H
ATOM	1347	HG22	THR	85	47.030	50.916	46.178	1.00	0.00	H
ATOM	1348	HG23	THR	85	45.499	50.026	46.220	1.00	0.00	H

ATOM	1349	OG1	THR	85	47.426	48.290	45.793	1.00	0.00	O
ATOM	1350	HG1	THR	85	47.945	48.891	45.243	1.00	0.00	H
ATOM	1351	C	THR	85	48.198	50.094	49.006	1.00	0.00	C
ATOM	1352	O	THR	85	47.337	49.826	49.839	1.00	0.00	O
ATOM	1353	N	VAL	86	49.137	51.024	49.315	1.00	0.00	N
ATOM	1354	H	VAL	86	49.889	51.088	48.642	1.00	0.00	H
ATOM	1355	CA	VAL	86	49.270	52.006	50.409	1.00	0.00	C
ATOM	1356	HA	VAL	86	48.315	52.074	50.931	1.00	0.00	H
ATOM	1357	CB	VAL	86	50.342	51.552	51.417	1.00	0.00	C
ATOM	1358	HB	VAL	86	50.336	52.220	52.273	1.00	0.00	H
ATOM	1359	CG1	VAL	86	50.012	50.169	51.958	1.00	0.00	C
ATOM	1360	HG11	VAL	86	50.728	49.885	52.730	1.00	0.00	H
ATOM	1361	HG12	VAL	86	49.009	50.157	52.373	1.00	0.00	H
ATOM	1362	HG13	VAL	86	50.050	49.445	51.151	1.00	0.00	H
ATOM	1363	CG2	VAL	86	51.712	51.559	50.755	1.00	0.00	C
ATOM	1364	HG21	VAL	86	52.425	51.051	51.398	1.00	0.00	H
ATOM	1365	HG22	VAL	86	51.696	51.051	49.795	1.00	0.00	H
ATOM	1366	HG23	VAL	86	52.066	52.580	50.612	1.00	0.00	H
ATOM	1367	C	VAL	86	49.634	53.366	49.937	1.00	0.00	C
ATOM	1368	O	VAL	86	49.787	53.578	48.745	1.00	0.00	O
ATOM	1369	N	ARG	87	49.736	54.310	50.867	1.00	0.00	N
ATOM	1370	H	ARG	87	49.476	54.042	51.804	1.00	0.00	H
ATOM	1371	CA	ARG	87	50.301	55.676	50.738	1.00	0.00	C
ATOM	1372	HA	ARG	87	49.956	56.068	49.786	1.00	0.00	H
ATOM	1373	CB	ARG	87	49.669	56.545	51.815	1.00	0.00	C
ATOM	1374	HB2	ARG	87	48.588	56.466	51.731	1.00	0.00	H
ATOM	1375	HB3	ARG	87	49.953	56.171	52.800	1.00	0.00	H
ATOM	1376	CG	ARG	87	49.994	58.027	51.714	1.00	0.00	C
ATOM	1377	HG2	ARG	87	51.069	58.204	51.755	1.00	0.00	H
ATOM	1378	HG3	ARG	87	49.626	58.396	50.755	1.00	0.00	H

ATOM	1379	CD	ARG	87	49.347	58.807	52.800	1.00	0.00	C
ATOM	1380	HD2	ARG	87	49.412	59.866	52.545	1.00	0.00	H
ATOM	1381	HD3	ARG	87	48.293	58.531	52.849	1.00	0.00	H
ATOM	1382	NE	ARG	87	50.008	58.605	54.080	1.00	0.00	N
ATOM	1383	HE	ARG	87	51.001	58.415	54.056	1.00	0.00	H
ATOM	1384	CZ	ARG	87	49.403	58.715	55.279	1.00	0.00	C
ATOM	1385	NH1	ARG	87	48.127	59.025	55.345	1.00	0.00	N
ATOM	1386	HH11	ARG	87	47.668	59.116	56.237	1.00	0.00	H
ATOM	1387	HH12	ARG	87	47.619	59.214	54.493	1.00	0.00	H
ATOM	1388	NH2	ARG	87	50.092	58.512	56.388	1.00	0.00	N
ATOM	1389	HH21	ARG	87	51.072	58.276	56.322	1.00	0.00	H
ATOM	1390	HH22	ARG	87	49.655	58.630	57.288	1.00	0.00	H
ATOM	1391	C	ARG	87	51.812	55.933	50.805	1.00	0.00	C
ATOM	1392	O	ARG	87	52.371	56.533	49.895	1.00	0.00	O
ATOM	1393	N	ASP	88	52.416	55.579	51.932	1.00	0.00	N
ATOM	1394	H	ASP	88	51.829	55.192	52.651	1.00	0.00	H
ATOM	1395	CA	ASP	88	53.861	55.665	52.250	1.00	0.00	C
ATOM	1396	HA	ASP	88	54.384	56.095	51.396	1.00	0.00	H
ATOM	1397	CB	ASP	88	54.088	56.597	53.443	1.00	0.00	C
ATOM	1398	HB2	ASP	88	53.586	56.230	54.336	1.00	0.00	H
ATOM	1399	HB3	ASP	88	55.157	56.621	53.663	1.00	0.00	H
ATOM	1400	CG	ASP	88	53.642	58.027	53.170	1.00	0.00	C
ATOM	1401	OD1	ASP	88	54.094	58.596	52.205	1.00	0.00	O
ATOM	1402	OD2	ASP	88	52.854	58.537	53.930	1.00	0.00	O
ATOM	1403	C	ASP	88	54.500	54.329	52.558	1.00	0.00	C
ATOM	1404	O	ASP	88	55.691	54.187	52.222	1.00	0.00	O
ATOM	1405	N	PRO	89	53.870	53.418	53.335	1.00	0.00	N
ATOM	1406	CD	PRO	89	52.494	53.653	53.782	1.00	0.00	C
ATOM	1407	HD2	PRO	89	51.794	53.472	52.974	1.00	0.00	H
ATOM	1408	HD3	PRO	89	52.327	54.608	54.273	1.00	0.00	H

ATOM	1409	CG	PRO	89	52.366	52.557	54.806	1.00	0.00	C
ATOM	1410	HG2	PRO	89	51.362	52.163	54.828	1.00	0.00	H
ATOM	1411	HG3	PRO	89	52.638	52.944	55.790	1.00	0.00	H
ATOM	1412	CB	PRO	89	53.364	51.535	54.382	1.00	0.00	C
ATOM	1413	HB2	PRO	89	52.955	50.933	53.571	1.00	0.00	H
ATOM	1414	HB3	PRO	89	53.642	50.887	55.214	1.00	0.00	H
ATOM	1415	CA	PRO	89	54.563	52.358	53.898	1.00	0.00	C
ATOM	1416	HA	PRO	89	55.113	52.727	54.765	1.00	0.00	H
ATOM	1417	C	PRO	89	55.537	51.499	53.012	1.00	0.00	C
ATOM	1418	O	PRO	89	56.584	51.089	53.486	1.00	0.00	O
ATOM	1419	N	THR	90	55.246	51.254	51.706	1.00	0.00	N
ATOM	1420	H	THR	90	54.414	51.690	51.337	1.00	0.00	H
ATOM	1421	CA	THR	90	55.936	50.355	50.756	1.00	0.00	C
ATOM	1422	HA	THR	90	56.831	49.959	51.235	1.00	0.00	H
ATOM	1423	CB	THR	90	55.041	49.159	50.384	1.00	0.00	C
ATOM	1424	HB	THR	90	55.610	48.432	49.823	1.00	0.00	H
ATOM	1425	CG2	THR	90	54.515	48.476	51.637	1.00	0.00	C
ATOM	1426	HG21	THR	90	54.166	47.484	51.359	1.00	0.00	H
ATOM	1427	HG22	THR	90	55.322	48.364	52.363	1.00	0.00	H
ATOM	1428	HG23	THR	90	53.698	49.043	52.085	1.00	0.00	H
ATOM	1429	OG1	THR	90	53.935	49.614	49.593	1.00	0.00	O
ATOM	1430	HG1	THR	90	53.230	48.965	49.646	1.00	0.00	H
ATOM	1431	C	THR	90	56.373	51.060	49.476	1.00	0.00	C
ATOM	1432	O	THR	90	56.119	52.255	49.329	1.00	0.00	O
ATOM	1433	N	ASP	91	56.967	50.299	48.605	1.00	0.00	N
ATOM	1434	H	ASP	91	57.097	49.328	48.837	1.00	0.00	H
ATOM	1435	CA	ASP	91	57.613	50.783	47.364	1.00	0.00	C
ATOM	1436	HA	ASP	91	57.748	49.932	46.702	1.00	0.00	H
ATOM	1437	CB	ASP	91	56.659	51.711	46.609	1.00	0.00	C
ATOM	1438	HB2	ASP	91	55.673	51.244	46.568	1.00	0.00	H

ATOM	1439	HB3	ASP	91	56.570	52.686	47.081	1.00	0.00	H
ATOM	1440	CG	ASP	91	57.111	51.994	45.183	1.00	0.00	C
ATOM	1441	OD1	ASP	91	58.277	51.834	44.907	1.00	0.00	O
ATOM	1442	OD2	ASP	91	56.287	52.367	44.382	1.00	0.00	O
ATOM	1443	C	ASP	91	58.949	51.523	47.611	1.00	0.00	C
ATOM	1444	O	ASP	91	59.018	52.740	47.566	1.00	0.00	O
ATOM	1445	N	PRO	92	60.045	50.712	47.551	1.00	0.00	N
ATOM	1446	CD	PRO	92	59.914	49.225	47.654	1.00	0.00	C
ATOM	1447	HD2	PRO	92	59.353	48.773	46.837	1.00	0.00	H
ATOM	1448	HD3	PRO	92	59.515	48.966	48.632	1.00	0.00	H
ATOM	1449	CG	PRO	92	61.353	48.790	47.573	1.00	0.00	C
ATOM	1450	HG2	PRO	92	61.617	48.631	46.526	1.00	0.00	H
ATOM	1451	HG3	PRO	92	61.542	47.875	48.130	1.00	0.00	H
ATOM	1452	CB	PRO	92	62.123	49.954	48.095	1.00	0.00	C
ATOM	1453	HB2	PRO	92	63.174	49.902	47.811	1.00	0.00	H
ATOM	1454	HB3	PRO	92	62.053	49.959	49.183	1.00	0.00	H
ATOM	1455	CA	PRO	92	61.386	51.174	47.532	1.00	0.00	C
ATOM	1456	HA	PRO	92	61.499	52.011	48.216	1.00	0.00	H
ATOM	1457	C	PRO	92	61.970	51.578	46.213	1.00	0.00	C
ATOM	1458	O	PRO	92	63.160	51.507	45.937	1.00	0.00	O
ATOM	1459	N	ASP	93	61.202	51.851	45.187	1.00	0.00	N
ATOM	1460	H	ASP	93	60.204	51.828	45.355	1.00	0.00	H
ATOM	1461	CA	ASP	93	61.572	52.232	43.829	1.00	0.00	C
ATOM	1462	HA	ASP	93	60.638	52.419	43.300	1.00	0.00	H
ATOM	1463	CB	ASP	93	62.382	53.529	43.885	1.00	0.00	C
ATOM	1464	HB2	ASP	93	61.916	54.201	44.607	1.00	0.00	H
ATOM	1465	HB3	ASP	93	63.403	53.346	44.224	1.00	0.00	H
ATOM	1466	CG	ASP	93	62.411	54.268	42.553	1.00	0.00	C
ATOM	1467	OD1	ASP	93	61.485	54.116	41.792	1.00	0.00	O
ATOM	1468	OD2	ASP	93	63.358	54.977	42.310	1.00	0.00	O

ATOM	1469	C	ASP	93	62.370	51.172	43.025	1.00	0.00	C
ATOM	1470	O	ASP	93	63.387	51.523	42.439	1.00	0.00	O
ATOM	1471	N	SER	94	62.048	49.927	42.953	1.00	0.00	N
ATOM	1472	H	SER	94	61.265	49.628	43.512	1.00	0.00	H
ATOM	1473	CA	SER	94	62.644	48.915	42.114	1.00	0.00	C
ATOM	1474	HA	SER	94	63.164	49.417	41.298	1.00	0.00	H
ATOM	1475	CB	SER	94	63.684	48.175	42.894	1.00	0.00	C
ATOM	1476	HB2	SER	94	64.207	47.480	42.237	1.00	0.00	H
ATOM	1477	HB3	SER	94	64.409	48.887	43.290	1.00	0.00	H
ATOM	1478	OG	SER	94	63.101	47.444	43.990	1.00	0.00	O
ATOM	1479	HG	SER	94	62.886	46.561	43.677	1.00	0.00	H
ATOM	1480	C	SER	94	61.566	47.980	41.402	1.00	0.00	C
ATOM	1481	O	SER	94	61.947	46.979	40.774	1.00	0.00	O
ATOM	1482	N	PRO	95	60.238	48.177	41.498	1.00	0.00	N
ATOM	1483	CD	PRO	95	59.533	49.265	42.260	1.00	0.00	C
ATOM	1484	HD2	PRO	95	59.836	50.260	41.932	1.00	0.00	H
ATOM	1485	HD3	PRO	95	59.662	49.124	43.334	1.00	0.00	H
ATOM	1486	CG	PRO	95	58.082	49.067	41.910	1.00	0.00	C
ATOM	1487	HG2	PRO	95	57.836	49.649	41.020	1.00	0.00	H
ATOM	1488	HG3	PRO	95	57.431	49.356	42.736	1.00	0.00	H
ATOM	1489	CB	PRO	95	57.968	47.613	41.606	1.00	0.00	C
ATOM	1490	HB2	PRO	95	57.079	47.402	41.014	1.00	0.00	H
ATOM	1491	HB3	PRO	95	57.941	47.046	42.538	1.00	0.00	H
ATOM	1492	CA	PRO	95	59.257	47.286	40.845	1.00	0.00	C
ATOM	1493	HA	PRO	95	59.516	46.240	41.013	1.00	0.00	H
ATOM	1494	C	PRO	95	59.087	47.535	39.327	1.00	0.00	C
ATOM	1495	O	PRO	95	59.433	48.609	38.860	1.00	0.00	O
ATOM	1496	N	GLU	96	58.490	46.603	38.624	1.00	0.00	N
ATOM	1497	H	GLU	96	58.266	45.719	39.055	1.00	0.00	H
ATOM	1498	CA	GLU	96	58.096	46.825	37.189	1.00	0.00	C

ATOM	1499	HA	GLU	96	58.767	47.559	36.742	1.00	0.00	H
ATOM	1500	CB	GLU	96	58.246	45.526	36.395	1.00	0.00	C
ATOM	1501	HB2	GLU	96	57.621	44.760	36.855	1.00	0.00	H
ATOM	1502	HB3	GLU	96	57.884	45.698	35.380	1.00	0.00	H
ATOM	1503	CG	GLU	96	59.674	45.008	36.300	1.00	0.00	C
ATOM	1504	HG2	GLU	96	60.293	45.767	35.819	1.00	0.00	H
ATOM	1505	HG3	GLU	96	60.062	44.834	37.305	1.00	0.00	H
ATOM	1506	CD	GLU	96	59.781	43.726	35.523	1.00	0.00	C
ATOM	1507	OE1	GLU	96	58.773	43.247	35.062	1.00	0.00	O
ATOM	1508	OE2	GLU	96	60.873	43.224	35.390	1.00	0.00	O
ATOM	1509	C	GLU	96	56.658	47.350	37.012	1.00	0.00	C
ATOM	1510	O	GLU	96	56.316	47.838	35.947	1.00	0.00	O
ATOM	1511	N	TYR	97	55.863	47.322	38.017	1.00	0.00	N
ATOM	1512	H	TYR	97	56.215	46.960	38.892	1.00	0.00	H
ATOM	1513	CA	TYR	97	54.440	47.775	38.008	1.00	0.00	C
ATOM	1514	HA	TYR	97	54.376	48.756	37.536	1.00	0.00	H
ATOM	1515	CB	TYR	97	53.525	46.801	37.261	1.00	0.00	C
ATOM	1516	HB2	TYR	97	52.492	47.135	37.366	1.00	0.00	H
ATOM	1517	HB3	TYR	97	53.766	46.838	36.198	1.00	0.00	H
ATOM	1518	CG	TYR	97	53.633	45.372	37.743	1.00	0.00	C
ATOM	1519	CD1	TYR	97	52.916	44.959	38.856	1.00	0.00	C
ATOM	1520	HD1	TYR	97	52.319	45.650	39.395	1.00	0.00	H
ATOM	1521	CE1	TYR	97	53.014	43.653	39.297	1.00	0.00	C
ATOM	1522	HE1	TYR	97	52.442	43.326	40.151	1.00	0.00	H
ATOM	1523	CZ	TYR	97	53.834	42.757	38.620	1.00	0.00	C
ATOM	1524	OH	TYR	97	53.932	41.457	39.058	1.00	0.00	O
ATOM	1525	HH	TYR	97	54.456	40.914	38.464	1.00	0.00	H
ATOM	1526	CE2	TYR	97	54.547	43.168	37.512	1.00	0.00	C
ATOM	1527	HE2	TYR	97	55.193	42.476	36.991	1.00	0.00	H
ATOM	1528	CD2	TYR	97	54.449	44.473	37.072	1.00	0.00	C

ATOM	1529	HD2	TYR	97	55.010	44.788	36.203	1.00	0.00	H
ATOM	1530	C	TYR	97	54.031	47.906	39.485	1.00	0.00	C
ATOM	1531	O	TYR	97	54.538	47.162	40.348	1.00	0.00	O
ATOM	1532	N	HIP	98	53.077	48.763	39.817	1.00	0.00	N
ATOM	1533	H	HIP	98	52.696	49.362	39.099	1.00	0.00	H
ATOM	1534	CA	HIP	98	52.363	48.744	41.147	1.00	0.00	C
ATOM	1535	HA	HIP	98	53.093	48.586	41.938	1.00	0.00	H
ATOM	1536	CB	HIP	98	51.677	50.092	41.391	1.00	0.00	C
ATOM	1537	HB2	HIP	98	51.219	50.418	40.465	1.00	0.00	H
ATOM	1538	HB3	HIP	98	50.888	49.981	42.133	1.00	0.00	H
ATOM	1539	CG	HIP	98	52.611	51.167	41.854	1.00	0.00	C
ATOM	1540	ND1	HIP	98	52.276	52.504	41.829	1.00	0.00	N
ATOM	1541	HD1	HIP	98	51.405	52.888	41.493	1.00	0.00	H
ATOM	1542	CE1	HIP	98	53.288	53.217	42.294	1.00	0.00	C
ATOM	1543	HE1	HIP	98	53.303	54.292	42.421	1.00	0.00	H
ATOM	1544	NE2	HIP	98	54.265	52.390	42.618	1.00	0.00	N
ATOM	1545	HE2	HIP	98	55.146	52.658	43.042	1.00	0.00	H
ATOM	1546	CD2	HIP	98	53.867	51.102	42.353	1.00	0.00	C
ATOM	1547	HD2	HIP	98	54.457	50.213	42.518	1.00	0.00	H
ATOM	1548	C	HIP	98	51.289	47.576	41.268	1.00	0.00	C
ATOM	1549	O	HIP	98	50.797	46.992	40.313	1.00	0.00	O
ATOM	1550	N	LEU	99	50.990	47.181	42.573	1.00	0.00	N
ATOM	1551	H	LEU	99	51.358	47.709	43.353	1.00	0.00	H
ATOM	1552	CA	LEU	99	50.239	45.998	42.855	1.00	0.00	C
ATOM	1553	HA	LEU	99	50.901	45.145	42.713	1.00	0.00	H
ATOM	1554	CB	LEU	99	49.762	46.034	44.312	1.00	0.00	C
ATOM	1555	HB2	LEU	99	50.614	46.236	44.963	1.00	0.00	H
ATOM	1556	HB3	LEU	99	49.082	46.880	44.403	1.00	0.00	H
ATOM	1557	CG	LEU	99	49.045	44.771	44.807	1.00	0.00	C
ATOM	1558	HG	LEU	99	48.310	44.454	44.071	1.00	0.00	H

ATOM	1559	CD1	LEU	99	50.058	43.649	44.987	1.00	0.00	C
ATOM	1560	HD11	LEU	99	49.548	42.748	45.327	1.00	0.00	H
ATOM	1561	HD12	LEU	99	50.547	43.420	44.041	1.00	0.00	H
ATOM	1562	HD13	LEU	99	50.813	43.929	45.724	1.00	0.00	H
ATOM	1563	CD2	LEU	99	48.327	45.075	46.114	1.00	0.00	C
ATOM	1564	HD21	LEU	99	47.836	44.170	46.456	1.00	0.00	H
ATOM	1565	HD22	LEU	99	49.025	45.419	46.872	1.00	0.00	H
ATOM	1566	HD23	LEU	99	47.550	45.815	45.947	1.00	0.00	H
ATOM	1567	C	LEU	99	49.031	45.868	41.878	1.00	0.00	C
ATOM	1568	O	LEU	99	48.255	46.771	41.711	1.00	0.00	O
ATOM	1569	N	VAL	100	48.804	44.689	41.268	1.00	0.00	N
ATOM	1570	H	VAL	100	49.472	43.954	41.441	1.00	0.00	H
ATOM	1571	CA	VAL	100	47.669	44.326	40.314	1.00	0.00	C
ATOM	1572	HA	VAL	100	46.948	45.141	40.315	1.00	0.00	H
ATOM	1573	CB	VAL	100	48.190	44.103	38.881	1.00	0.00	C
ATOM	1574	HB	VAL	100	47.357	43.834	38.230	1.00	0.00	H
ATOM	1575	CG1	VAL	100	48.802	45.383	38.332	1.00	0.00	C
ATOM	1576	HG11	VAL	100	48.835	45.327	37.244	1.00	0.00	H
ATOM	1577	HG12	VAL	100	48.219	46.256	38.626	1.00	0.00	H
ATOM	1578	HG13	VAL	100	49.823	45.483	38.688	1.00	0.00	H
ATOM	1579	CG2	VAL	100	49.207	42.971	38.870	1.00	0.00	C
ATOM	1580	HG21	VAL	100	49.691	42.926	37.894	1.00	0.00	H
ATOM	1581	HG22	VAL	100	49.985	43.124	39.617	1.00	0.00	H
ATOM	1582	HG23	VAL	100	48.711	42.022	39.034	1.00	0.00	H
ATOM	1583	C	VAL	100	46.944	43.090	40.718	1.00	0.00	C
ATOM	1584	O	VAL	100	45.948	42.721	40.112	1.00	0.00	O
ATOM	1585	N	SER	101	47.546	42.272	41.648	1.00	0.00	N
ATOM	1586	H	SER	101	48.375	42.604	42.117	1.00	0.00	H
ATOM	1587	CA	SER	101	47.103	40.897	41.971	1.00	0.00	C
ATOM	1588	HA	SER	101	46.313	40.612	41.275	1.00	0.00	H

ATOM	1589	CB	SER	101	48.268	39.961	41.715	1.00	0.00	C
ATOM	1590	HB2	SER	101	49.134	40.279	42.290	1.00	0.00	H
ATOM	1591	HB3	SER	101	47.984	38.955	42.023	1.00	0.00	H
ATOM	1592	OG	SER	101	48.591	39.923	40.352	1.00	0.00	O
ATOM	1593	HG	SER	101	49.034	40.744	40.126	1.00	0.00	H
ATOM	1594	C	SER	101	46.551	40.623	43.414	1.00	0.00	C
ATOM	1595	O	SER	101	47.273	40.695	44.407	1.00	0.00	O
ATOM	1596	N	MET	102	45.271	40.209	43.521	1.00	0.00	N
ATOM	1597	H	MET	102	44.701	40.146	42.687	1.00	0.00	H
ATOM	1598	CA	MET	102	44.659	39.779	44.785	1.00	0.00	C
ATOM	1599	HA	MET	102	45.441	39.511	45.492	1.00	0.00	H
ATOM	1600	CB	MET	102	43.847	40.926	45.384	1.00	0.00	C
ATOM	1601	HB2	MET	102	44.524	41.757	45.574	1.00	0.00	H
ATOM	1602	HB3	MET	102	43.114	41.267	44.652	1.00	0.00	H
ATOM	1603	CG	MET	102	43.131	40.580	46.683	1.00	0.00	C
ATOM	1604	HG2	MET	102	43.756	39.910	47.274	1.00	0.00	H
ATOM	1605	HG3	MET	102	42.971	41.493	47.256	1.00	0.00	H
ATOM	1606	SD	MET	102	41.528	39.800	46.407	1.00	0.00	S
ATOM	1607	CE	MET	102	40.529	41.223	45.979	1.00	0.00	C
ATOM	1608	HE1	MET	102	41.158	42.031	45.607	1.00	0.00	H
ATOM	1609	HE2	MET	102	39.812	40.945	45.209	1.00	0.00	H
ATOM	1610	HE3	MET	102	39.992	41.564	46.860	1.00	0.00	H
ATOM	1611	C	MET	102	43.763	38.509	44.562	1.00	0.00	C
ATOM	1612	O	MET	102	42.867	38.545	43.719	1.00	0.00	O
ATOM	1613	N	HID	103	43.793	37.492	45.416	1.00	0.00	N
ATOM	1614	H	HID	103	44.458	37.522	46.177	1.00	0.00	H
ATOM	1615	CA	HID	103	43.022	36.277	45.297	1.00	0.00	C
ATOM	1616	HA	HID	103	42.095	36.493	44.765	1.00	0.00	H
ATOM	1617	CB	HID	103	43.781	35.241	44.501	1.00	0.00	C
ATOM	1618	HB2	HID	103	43.099	34.432	44.238	1.00	0.00	H

ATOM	1619	HB3	HID	103	44.064	35.724	43.568	1.00	0.00	H
ATOM	1620	CG	HID	103	45.000	34.626	45.049	1.00	0.00	C
ATOM	1621	ND1	HID	103	46.273	34.873	44.651	1.00	0.00	N
ATOM	1622	HD1	HID	103	46.533	35.464	43.875	1.00	0.00	H
ATOM	1623	CE1	HID	103	47.145	34.292	45.531	1.00	0.00	C
ATOM	1624	HE1	HID	103	48.223	34.344	45.496	1.00	0.00	H
ATOM	1625	NE2	HID	103	46.399	33.543	46.403	1.00	0.00	N
ATOM	1626	CD2	HID	103	45.078	33.710	46.103	1.00	0.00	C
ATOM	1627	HD2	HID	103	44.247	33.295	46.653	1.00	0.00	H
ATOM	1628	C	HID	103	42.619	35.573	46.655	1.00	0.00	C
ATOM	1629	O	HID	103	43.104	35.919	47.717	1.00	0.00	O
ATOM	1630	N	PHE	104	41.750	34.590	46.614	1.00	0.00	N
ATOM	1631	H	PHE	104	41.448	34.302	45.693	1.00	0.00	H
ATOM	1632	CA	PHE	104	41.009	34.009	47.686	1.00	0.00	C
ATOM	1633	HA	PHE	104	41.170	34.601	48.585	1.00	0.00	H
ATOM	1634	CB	PHE	104	39.515	34.070	47.359	1.00	0.00	C
ATOM	1635	HB2	PHE	104	39.337	33.610	46.385	1.00	0.00	H
ATOM	1636	HB3	PHE	104	38.972	33.479	48.098	1.00	0.00	H
ATOM	1637	CG	PHE	104	38.951	35.462	47.362	1.00	0.00	C
ATOM	1638	CD1	PHE	104	39.048	36.268	46.238	1.00	0.00	C
ATOM	1639	HD1	PHE	104	39.518	35.888	45.342	1.00	0.00	H
ATOM	1640	CE1	PHE	104	38.529	37.549	46.239	1.00	0.00	C
ATOM	1641	HE1	PHE	104	38.630	38.175	45.369	1.00	0.00	H
ATOM	1642	CZ	PHE	104	37.906	38.039	47.367	1.00	0.00	C
ATOM	1643	HZ	PHE	104	37.483	39.032	47.361	1.00	0.00	H
ATOM	1644	CE2	PHE	104	37.801	37.248	48.493	1.00	0.00	C
ATOM	1645	HE2	PHE	104	37.309	37.626	49.377	1.00	0.00	H
ATOM	1646	CD2	PHE	104	38.322	35.969	48.489	1.00	0.00	C
ATOM	1647	HD2	PHE	104	38.249	35.365	49.382	1.00	0.00	H
ATOM	1648	C	PHE	104	41.420	32.561	47.979	1.00	0.00	C

ATOM	1649	O	PHE	104	41.521	31.697	47.054	1.00	0.00	O
ATOM	1650	N	HID	105	41.359	32.195	49.286	1.00	0.00	N
ATOM	1651	H	HID	105	41.238	32.944	49.954	1.00	0.00	H
ATOM	1652	CA	HID	105	41.388	30.782	49.906	1.00	0.00	C
ATOM	1653	HA	HID	105	41.201	30.066	49.104	1.00	0.00	H
ATOM	1654	CB	HID	105	42.740	30.477	50.474	1.00	0.00	C
ATOM	1655	HB2	HID	105	42.953	31.151	51.299	1.00	0.00	H
ATOM	1656	HB3	HID	105	42.732	29.463	50.875	1.00	0.00	H
ATOM	1657	CG	HID	105	43.869	30.571	49.491	1.00	0.00	C
ATOM	1658	ND1	HID	105	44.273	29.641	48.621	1.00	0.00	N
ATOM	1659	HD1	HID	105	43.863	28.724	48.499	1.00	0.00	H
ATOM	1660	CE1	HID	105	45.319	30.172	47.898	1.00	0.00	C
ATOM	1661	HE1	HID	105	45.848	29.685	47.094	1.00	0.00	H
ATOM	1662	NE2	HID	105	45.605	31.400	48.388	1.00	0.00	N
ATOM	1663	CD2	HID	105	44.615	31.688	49.311	1.00	0.00	C
ATOM	1664	HD2	HID	105	44.518	32.610	49.868	1.00	0.00	H
ATOM	1665	C	HID	105	40.327	30.559	51.002	1.00	0.00	C
ATOM	1666	O	HID	105	40.225	31.410	51.897	1.00	0.00	O
ATOM	1667	N	SER	106	39.706	29.398	50.940	1.00	0.00	N
ATOM	1668	H	SER	106	39.895	28.740	50.196	1.00	0.00	H
ATOM	1669	CA	SER	106	38.817	29.023	52.013	1.00	0.00	C
ATOM	1670	HA	SER	106	39.225	29.367	52.958	1.00	0.00	H
ATOM	1671	CB	SER	106	37.491	29.742	51.856	1.00	0.00	C
ATOM	1672	HB2	SER	106	37.636	30.822	51.877	1.00	0.00	H
ATOM	1673	HB3	SER	106	37.061	29.460	50.896	1.00	0.00	H
ATOM	1674	OG	SER	106	36.599	29.376	52.873	1.00	0.00	O
ATOM	1675	HG	SER	106	36.726	29.948	53.639	1.00	0.00	H
ATOM	1676	C	SER	106	38.613	27.483	52.020	1.00	0.00	C
ATOM	1677	O	SER	106	38.202	26.916	51.007	1.00	0.00	O
ATOM	1678	N	PRO	107	39.091	26.747	53.020	1.00	0.00	N

ATOM	1679	CD	PRO	107	39.048	25.324	52.985	1.00	0.00	C
ATOM	1680	HD2	PRO	107	39.901	24.946	52.425	1.00	0.00	H
ATOM	1681	HD3	PRO	107	38.107	24.948	52.582	1.00	0.00	H
ATOM	1682	CG	PRO	107	39.162	24.976	54.445	1.00	0.00	C
ATOM	1683	HG2	PRO	107	39.531	23.959	54.583	1.00	0.00	H
ATOM	1684	HG3	PRO	107	38.189	25.092	54.926	1.00	0.00	H
ATOM	1685	CB	PRO	107	40.117	25.982	54.992	1.00	0.00	C
ATOM	1686	HB2	PRO	107	41.138	25.672	54.761	1.00	0.00	H
ATOM	1687	HB3	PRO	107	39.998	26.104	56.069	1.00	0.00	H
ATOM	1688	CA	PRO	107	39.775	27.272	54.241	1.00	0.00	C
ATOM	1689	HA	PRO	107	39.052	27.844	54.824	1.00	0.00	H
ATOM	1690	C	PRO	107	41.049	28.112	54.001	1.00	0.00	C
ATOM	1691	O	PRO	107	41.690	28.136	52.974	1.00	0.00	O
ATOM	1692	N	ALA	108	41.302	28.955	54.947	1.00	0.00	N
ATOM	1693	H	ALA	108	40.725	28.951	55.774	1.00	0.00	H
ATOM	1694	CA	ALA	108	42.459	29.888	54.935	1.00	0.00	C
ATOM	1695	HA	ALA	108	42.415	30.517	54.047	1.00	0.00	H
ATOM	1696	CB	ALA	108	42.327	30.783	56.230	1.00	0.00	C
ATOM	1697	HB1	ALA	108	43.213	31.411	56.297	1.00	0.00	H
ATOM	1698	HB2	ALA	108	41.429	31.399	56.172	1.00	0.00	H
ATOM	1699	HB3	ALA	108	42.278	30.151	57.117	1.00	0.00	H
ATOM	1700	C	ALA	108	43.702	28.994	54.859	1.00	0.00	C
ATOM	1701	O	ALA	108	43.618	27.873	55.251	1.00	0.00	O
ATOM	1702	N	GLU	109	44.836	29.422	54.239	1.00	0.00	N
ATOM	1703	H	GLU	109	44.869	30.348	53.849	1.00	0.00	H
ATOM	1704	CA	GLU	109	46.106	28.635	54.273	1.00	0.00	C
ATOM	1705	HA	GLU	109	45.869	27.572	54.331	1.00	0.00	H
ATOM	1706	CB	GLU	109	46.903	28.857	52.974	1.00	0.00	C
ATOM	1707	HB2	GLU	109	47.121	29.919	52.855	1.00	0.00	H
ATOM	1708	HB3	GLU	109	47.848	28.327	53.042	1.00	0.00	H

ATOM	1709	CG	GLU	109	46.189	28.348	51.762	1.00	0.00	C
ATOM	1710	HG2	GLU	109	45.835	27.340	51.961	1.00	0.00	H
ATOM	1711	HG3	GLU	109	45.347	28.993	51.510	1.00	0.00	H
ATOM	1712	CD	GLU	109	47.182	28.319	50.634	1.00	0.00	C
ATOM	1713	OE1	GLU	109	47.966	29.276	50.437	1.00	0.00	O
ATOM	1714	OE2	GLU	109	47.109	27.313	49.919	1.00	0.00	O
ATOM	1715	C	GLU	109	46.984	28.980	55.503	1.00	0.00	C
ATOM	1716	O	GLU	109	47.547	28.100	56.127	1.00	0.00	O
ATOM	1717	N	HIE	110	47.027	30.206	56.004	1.00	0.00	N
ATOM	1718	H	HIE	110	46.511	30.938	55.532	1.00	0.00	H
ATOM	1719	CA	HIE	110	47.820	30.614	57.196	1.00	0.00	C
ATOM	1720	HA	HIE	110	48.633	29.904	57.352	1.00	0.00	H
ATOM	1721	CB	HIE	110	48.449	31.994	56.983	1.00	0.00	C
ATOM	1722	HB2	HIE	110	47.680	32.694	56.659	1.00	0.00	H
ATOM	1723	HB3	HIE	110	48.842	32.355	57.934	1.00	0.00	H
ATOM	1724	CG	HIE	110	49.583	31.994	56.005	1.00	0.00	C
ATOM	1725	ND1	HIE	110	49.412	32.283	54.667	1.00	0.00	N
ATOM	1726	CE1	HIE	110	50.579	32.207	54.051	1.00	0.00	C
ATOM	1727	HE1	HIE	110	50.753	32.402	53.003	1.00	0.00	H
ATOM	1728	NE2	HIE	110	51.498	31.878	54.940	1.00	0.00	N
ATOM	1729	HE2	HIE	110	52.484	31.809	54.748	1.00	0.00	H
ATOM	1730	CD2	HIE	110	50.902	31.739	56.169	1.00	0.00	C
ATOM	1731	HD2	HIE	110	51.386	31.481	57.096	1.00	0.00	H
ATOM	1732	C	HIE	110	46.956	30.636	58.476	1.00	0.00	C
ATOM	1733	O	HIE	110	45.769	30.859	58.425	1.00	0.00	O
ATOM	1734	N	VAL	111	47.657	30.459	59.658	1.00	0.00	N
ATOM	1735	H	VAL	111	48.655	30.307	59.636	1.00	0.00	H
ATOM	1736	CA	VAL	111	46.942	30.446	60.987	1.00	0.00	C
ATOM	1737	HA	VAL	111	45.871	30.565	60.817	1.00	0.00	H
ATOM	1738	CB	VAL	111	47.149	29.086	61.679	1.00	0.00	C

ATOM	1739	HB	VAL	111	48.217	28.907	61.796	1.00	0.00	H
ATOM	1740	CG1	VAL	111	46.510	29.088	63.060	1.00	0.00	C
ATOM	1741	HG11	VAL	111	47.047	29.745	63.745	1.00	0.00	H
ATOM	1742	HG12	VAL	111	45.464	29.390	62.997	1.00	0.00	H
ATOM	1743	HG13	VAL	111	46.559	28.081	63.476	1.00	0.00	H
ATOM	1744	CG2	VAL	111	46.571	27.973	60.819	1.00	0.00	C
ATOM	1745	HG21	VAL	111	45.503	28.137	60.669	1.00	0.00	H
ATOM	1746	HG22	VAL	111	47.059	27.933	59.847	1.00	0.00	H
ATOM	1747	HG23	VAL	111	46.716	27.010	61.310	1.00	0.00	H
ATOM	1748	C	VAL	111	47.407	31.573	61.960	1.00	0.00	C
ATOM	1749	O	VAL	111	48.560	31.858	62.284	1.00	0.00	O
ATOM	1750	N	LEU	112	46.381	32.261	62.454	1.00	0.00	N
ATOM	1751	H	LEU	112	45.442	32.008	62.181	1.00	0.00	H
ATOM	1752	CA	LEU	112	46.544	33.430	63.449	1.00	0.00	C
ATOM	1753	HA	LEU	112	47.560	33.811	63.361	1.00	0.00	H
ATOM	1754	CB	LEU	112	45.578	34.575	63.119	1.00	0.00	C
ATOM	1755	HB2	LEU	112	44.610	34.153	62.844	1.00	0.00	H
ATOM	1756	HB3	LEU	112	45.424	35.165	64.024	1.00	0.00	H
ATOM	1757	CG	LEU	112	46.046	35.546	62.027	1.00	0.00	C
ATOM	1758	HG	LEU	112	46.992	35.989	62.333	1.00	0.00	H
ATOM	1759	CD1	LEU	112	46.242	34.786	60.722	1.00	0.00	C
ATOM	1760	HD11	LEU	112	46.364	35.490	59.899	1.00	0.00	H
ATOM	1761	HD12	LEU	112	47.150	34.187	60.772	1.00	0.00	H
ATOM	1762	HD13	LEU	112	45.388	34.143	60.510	1.00	0.00	H
ATOM	1763	CD2	LEU	112	45.021	36.658	61.864	1.00	0.00	C
ATOM	1764	HD21	LEU	112	45.320	37.321	61.052	1.00	0.00	H
ATOM	1765	HD22	LEU	112	44.037	36.244	61.649	1.00	0.00	H
ATOM	1766	HD23	LEU	112	44.966	37.242	62.783	1.00	0.00	H
ATOM	1767	C	LEU	112	46.292	32.975	64.902	1.00	0.00	C
ATOM	1768	O	LEU	112	45.393	32.120	65.063	1.00	0.00	O

ATOM	1769	N	PRO	113	46.905	33.615	65.935	1.00	0.00	N
ATOM	1770	CD	PRO	113	47.986	34.561	65.696	1.00	0.00	C
ATOM	1771	HD2	PRO	113	47.729	35.313	64.950	1.00	0.00	H
ATOM	1772	HD3	PRO	113	48.898	34.030	65.429	1.00	0.00	H
ATOM	1773	CG	PRO	113	48.128	35.207	67.048	1.00	0.00	C
ATOM	1774	HG2	PRO	113	47.422	36.036	67.126	1.00	0.00	H
ATOM	1775	HG3	PRO	113	49.140	35.571	67.215	1.00	0.00	H
ATOM	1776	CB	PRO	113	47.742	34.137	68.012	1.00	0.00	C
ATOM	1777	HB2	PRO	113	47.423	34.561	68.965	1.00	0.00	H
ATOM	1778	HB3	PRO	113	48.586	33.461	68.161	1.00	0.00	H
ATOM	1779	CA	PRO	113	46.608	33.386	67.306	1.00	0.00	C
ATOM	1780	HA	PRO	113	46.666	32.322	67.541	1.00	0.00	H
ATOM	1781	C	PRO	113	45.225	33.938	67.684	1.00	0.00	C
ATOM	1782	O	PRO	113	44.740	34.886	67.095	1.00	0.00	O
ATOM	1783	N	CYS	114	44.541	33.210	68.617	1.00	0.00	N
ATOM	1784	H	CYS	114	44.969	32.403	69.049	1.00	0.00	H
ATOM	1785	CA	CYS	114	43.201	33.693	69.138	1.00	0.00	C
ATOM	1786	HA	CYS	114	42.747	32.881	69.707	1.00	0.00	H
ATOM	1787	CB	CYS	114	43.396	34.890	70.068	1.00	0.00	C
ATOM	1788	HB2	CYS	114	43.866	35.703	69.512	1.00	0.00	H
ATOM	1789	HB3	CYS	114	42.421	35.236	70.413	1.00	0.00	H
ATOM	1790	SG	CYS	114	44.406	34.536	71.526	1.00	0.00	S
ATOM	1791	HG	CYS	114	43.521	33.716	72.118	1.00	0.00	H
ATOM	1792	C	CYS	114	42.203	34.104	68.007	1.00	0.00	C
ATOM	1793	O	CYS	114	41.740	35.244	67.933	1.00	0.00	O
ATOM	1794	N	ALA	115	42.074	33.296	66.956	1.00	0.00	N
ATOM	1795	H	ALA	115	42.572	32.418	66.986	1.00	0.00	H
ATOM	1796	CA	ALA	115	41.213	33.514	65.728	1.00	0.00	C
ATOM	1797	HA	ALA	115	40.378	34.161	66.000	1.00	0.00	H
ATOM	1798	CB	ALA	115	42.085	34.248	64.788	1.00	0.00	C

ATOM	1799	HB1	ALA	115	42.918	33.613	64.484	1.00	0.00	H
ATOM	1800	HB2	ALA	115	41.513	34.532	63.904	1.00	0.00	H
ATOM	1801	HB3	ALA	115	42.476	35.155	65.253	1.00	0.00	H
ATOM	1802	C	ALA	115	40.643	32.240	65.099	1.00	0.00	C
ATOM	1803	O	ALA	115	41.276	31.222	65.189	1.00	0.00	O
ATOM	1804	N	ASN	116	39.482	32.339	64.444	1.00	0.00	N
ATOM	1805	H	ASN	116	38.970	33.207	64.386	1.00	0.00	H
ATOM	1806	CA	ASN	116	39.011	31.126	63.696	1.00	0.00	C
ATOM	1807	HA	ASN	116	39.826	30.423	63.521	1.00	0.00	H
ATOM	1808	CB	ASN	116	37.914	30.386	64.439	1.00	0.00	C
ATOM	1809	HB2	ASN	116	37.080	31.065	64.628	1.00	0.00	H
ATOM	1810	HB3	ASN	116	37.549	29.572	63.811	1.00	0.00	H
ATOM	1811	CG	ASN	116	38.386	29.815	65.747	1.00	0.00	C
ATOM	1812	OD1	ASN	116	38.067	30.484	66.826	1.00	0.00	O
ATOM	1813	ND2	ASN	116	39.040	28.767	65.781	1.00	0.00	N
ATOM	1814	HD21	ASN	116	39.249	28.276	64.926	1.00	0.00	H
ATOM	1815	HD22	ASN	116	39.383	28.431	66.668	1.00	0.00	H
ATOM	1816	C	ASN	116	38.524	31.630	62.305	1.00	0.00	C
ATOM	1817	O	ASN	116	37.286	31.798	62.054	1.00	0.00	O
ATOM	1818	N	PRO	117	39.421	31.851	61.297	1.00	0.00	N
ATOM	1819	CD	PRO	117	40.846	31.759	61.487	1.00	0.00	C
ATOM	1820	HD2	PRO	117	41.175	30.730	61.338	1.00	0.00	H
ATOM	1821	HD3	PRO	117	41.179	32.144	62.448	1.00	0.00	H
ATOM	1822	CG	PRO	117	41.360	32.643	60.382	1.00	0.00	C
ATOM	1823	HG2	PRO	117	42.364	32.347	60.079	1.00	0.00	H
ATOM	1824	HG3	PRO	117	41.355	33.681	60.718	1.00	0.00	H
ATOM	1825	CB	PRO	117	40.373	32.470	59.279	1.00	0.00	C
ATOM	1826	HB2	PRO	117	40.564	31.522	58.772	1.00	0.00	H
ATOM	1827	HB3	PRO	117	40.399	33.287	58.561	1.00	0.00	H
ATOM	1828	CA	PRO	117	39.018	32.417	59.992	1.00	0.00	C

ATOM	1829	HA	PRO	117	38.659	33.435	60.154	1.00	0.00	H
ATOM	1830	C	PRO	117	37.955	31.613	59.129	1.00	0.00	C
ATOM	1831	O	PRO	117	37.879	30.380	59.029	1.00	0.00	O
ATOM	1832	N	ASP	118	37.160	32.403	58.367	1.00	0.00	N
ATOM	1833	H	ASP	118	37.225	33.408	58.438	1.00	0.00	H
ATOM	1834	CA	ASP	118	36.286	31.844	57.384	1.00	0.00	C
ATOM	1835	HA	ASP	118	36.056	30.811	57.643	1.00	0.00	H
ATOM	1836	CB	ASP	118	34.957	32.596	57.483	1.00	0.00	C
ATOM	1837	HB2	ASP	118	35.124	33.659	57.295	1.00	0.00	H
ATOM	1838	HB3	ASP	118	34.282	32.226	56.710	1.00	0.00	H
ATOM	1839	CG	ASP	118	34.270	32.411	58.829	1.00	0.00	C
ATOM	1840	OD1	ASP	118	34.062	31.286	59.218	1.00	0.00	O
ATOM	1841	OD2	ASP	118	33.959	33.396	59.455	1.00	0.00	O
ATOM	1842	C	ASP	118	36.728	31.815	55.901	1.00	0.00	C
ATOM	1843	O	ASP	118	36.356	31.002	55.027	1.00	0.00	O
ATOM	1844	N	ALA	119	37.496	32.787	55.559	1.00	0.00	N
ATOM	1845	H	ALA	119	37.768	33.449	56.273	1.00	0.00	H
ATOM	1846	CA	ALA	119	38.057	33.021	54.199	1.00	0.00	C
ATOM	1847	HA	ALA	119	38.301	32.045	53.777	1.00	0.00	H
ATOM	1848	CB	ALA	119	36.950	33.632	53.273	1.00	0.00	C
ATOM	1849	HB1	ALA	119	37.379	33.873	52.300	1.00	0.00	H
ATOM	1850	HB2	ALA	119	36.143	32.913	53.132	1.00	0.00	H
ATOM	1851	HB3	ALA	119	36.539	34.530	53.724	1.00	0.00	H
ATOM	1852	C	ALA	119	39.439	33.792	54.274	1.00	0.00	C
ATOM	1853	O	ALA	119	39.708	34.287	55.378	1.00	0.00	O
ATOM	1854	N	GLU	120	40.260	33.789	53.261	1.00	0.00	N
ATOM	1855	H	GLU	120	40.002	33.294	52.419	1.00	0.00	H
ATOM	1856	CA	GLU	120	41.602	34.378	53.309	1.00	0.00	C
ATOM	1857	HA	GLU	120	41.629	35.118	54.106	1.00	0.00	H
ATOM	1858	CB	GLU	120	42.633	33.295	53.635	1.00	0.00	C

ATOM	1859	HB2	GLU	120	42.390	32.892	54.612	1.00	0.00	H
ATOM	1860	HB3	GLU	120	42.559	32.500	52.902	1.00	0.00	H
ATOM	1861	CG	GLU	120	44.072	33.790	53.682	1.00	0.00	C
ATOM	1862	HG2	GLU	120	44.358	34.203	52.714	1.00	0.00	H
ATOM	1863	HG3	GLU	120	44.154	34.581	54.427	1.00	0.00	H
ATOM	1864	CD	GLU	120	45.055	32.700	54.005	1.00	0.00	C
ATOM	1865	OE1	GLU	120	45.295	31.872	53.159	1.00	0.00	O
ATOM	1866	OE2	GLU	120	45.568	32.695	55.099	1.00	0.00	O
ATOM	1867	C	GLU	120	41.999	35.082	52.007	1.00	0.00	C
ATOM	1868	O	GLU	120	41.948	34.503	50.891	1.00	0.00	O
ATOM	1869	N	LEU	121	42.735	36.236	52.070	1.00	0.00	N
ATOM	1870	H	LEU	121	42.883	36.617	52.991	1.00	0.00	H
ATOM	1871	CA	LEU	121	43.353	37.013	50.980	1.00	0.00	C
ATOM	1872	HA	LEU	121	42.979	36.627	50.035	1.00	0.00	H
ATOM	1873	CB	LEU	121	42.961	38.492	51.084	1.00	0.00	C
ATOM	1874	HB2	LEU	121	43.474	38.910	51.945	1.00	0.00	H
ATOM	1875	HB3	LEU	121	43.333	39.014	50.201	1.00	0.00	H
ATOM	1876	CG	LEU	121	41.460	38.772	51.238	1.00	0.00	C
ATOM	1877	HG	LEU	121	41.064	38.238	52.102	1.00	0.00	H
ATOM	1878	CD1	LEU	121	41.244	40.260	51.480	1.00	0.00	C
ATOM	1879	HD11	LEU	121	40.187	40.464	51.630	1.00	0.00	H
ATOM	1880	HD12	LEU	121	41.785	40.575	52.373	1.00	0.00	H
ATOM	1881	HD13	LEU	121	41.604	40.832	50.625	1.00	0.00	H
ATOM	1882	CD2	LEU	121	40.726	38.309	49.989	1.00	0.00	C
ATOM	1883	HD21	LEU	121	39.673	38.567	50.073	1.00	0.00	H
ATOM	1884	HD22	LEU	121	41.147	38.786	49.106	1.00	0.00	H
ATOM	1885	HD23	LEU	121	40.800	37.227	49.881	1.00	0.00	H
ATOM	1886	C	LEU	121	44.860	36.897	50.997	1.00	0.00	C
ATOM	1887	O	LEU	121	45.598	36.981	52.010	1.00	0.00	O
ATOM	1888	N	HIE	122	45.357	36.923	49.726	1.00	0.00	N

ATOM	1889	H	HIE	122	44.727	36.884	48.936	1.00	0.00	H
ATOM	1890	CA	HIE	122	46.765	37.123	49.470	1.00	0.00	C
ATOM	1891	HA	HIE	122	47.267	37.396	50.388	1.00	0.00	H
ATOM	1892	CB	HIE	122	47.533	35.921	48.889	1.00	0.00	C
ATOM	1893	HB2	HIE	122	46.976	35.536	48.039	1.00	0.00	H
ATOM	1894	HB3	HIE	122	48.506	36.257	48.533	1.00	0.00	H
ATOM	1895	CG	HIE	122	47.767	34.800	49.889	1.00	0.00	C
ATOM	1896	ND1	HIE	122	47.769	33.425	49.618	1.00	0.00	N
ATOM	1897	CE1	HIE	122	47.940	32.725	50.750	1.00	0.00	C
ATOM	1898	HE1	HIE	122	47.953	31.653	50.860	1.00	0.00	H
ATOM	1899	NE2	HIE	122	48.303	33.640	51.686	1.00	0.00	N
ATOM	1900	HE2	HIE	122	48.522	33.414	52.648	1.00	0.00	H
ATOM	1901	CD2	HIE	122	48.188	34.899	51.191	1.00	0.00	C
ATOM	1902	HD2	HIE	122	48.345	35.820	51.728	1.00	0.00	H
ATOM	1903	C	HIE	122	46.877	38.323	48.516	1.00	0.00	C
ATOM	1904	O	HIE	122	46.183	38.385	47.560	1.00	0.00	O
ATOM	1905	N	LEU	123	47.837	39.219	48.705	1.00	0.00	N
ATOM	1906	H	LEU	123	48.396	39.135	49.543	1.00	0.00	H
ATOM	1907	CA	LEU	123	48.285	40.232	47.716	1.00	0.00	C
ATOM	1908	HA	LEU	123	47.634	40.222	46.844	1.00	0.00	H
ATOM	1909	CB	LEU	123	48.323	41.648	48.305	1.00	0.00	C
ATOM	1910	HB2	LEU	123	49.127	41.699	49.035	1.00	0.00	H
ATOM	1911	HB3	LEU	123	48.600	42.329	47.502	1.00	0.00	H
ATOM	1912	CG	LEU	123	47.019	42.136	48.949	1.00	0.00	C
ATOM	1913	HG	LEU	123	46.745	41.478	49.775	1.00	0.00	H
ATOM	1914	CD1	LEU	123	47.221	43.538	49.506	1.00	0.00	C
ATOM	1915	HD11	LEU	123	46.277	43.920	49.888	1.00	0.00	H
ATOM	1916	HD12	LEU	123	47.948	43.519	50.315	1.00	0.00	H
ATOM	1917	HD13	LEU	123	47.574	44.213	48.730	1.00	0.00	H
ATOM	1918	CD2	LEU	123	45.903	42.113	47.916	1.00	0.00	C

ATOM	1919	HD21	LEU	123	44.987	42.509	48.355	1.00	0.00	H
ATOM	1920	HD22	LEU	123	46.172	42.713	47.048	1.00	0.00	H
ATOM	1921	HD23	LEU	123	45.716	41.089	47.605	1.00	0.00	H
ATOM	1922	C	LEU	123	49.669	39.787	47.301	1.00	0.00	C
ATOM	1923	O	LEU	123	50.539	39.562	48.172	1.00	0.00	O
ATOM	1924	N	VAL	124	49.966	39.682	45.988	1.00	0.00	N
ATOM	1925	H	VAL	124	49.257	39.912	45.305	1.00	0.00	H
ATOM	1926	CA	VAL	124	51.230	39.066	45.489	1.00	0.00	C
ATOM	1927	HA	VAL	124	51.972	39.013	46.288	1.00	0.00	H
ATOM	1928	CB	VAL	124	51.009	37.654	44.914	1.00	0.00	C
ATOM	1929	HB	VAL	124	51.967	37.255	44.576	1.00	0.00	H
ATOM	1930	CG1	VAL	124	50.462	36.722	45.985	1.00	0.00	C
ATOM	1931	HG11	VAL	124	51.111	36.736	46.858	1.00	0.00	H
ATOM	1932	HG12	VAL	124	49.456	37.022	46.282	1.00	0.00	H
ATOM	1933	HG13	VAL	124	50.421	35.703	45.598	1.00	0.00	H
ATOM	1934	CG2	VAL	124	50.064	37.722	43.724	1.00	0.00	C
ATOM	1935	HG21	VAL	124	49.863	36.710	43.370	1.00	0.00	H
ATOM	1936	HG22	VAL	124	49.115	38.176	44.006	1.00	0.00	H
ATOM	1937	HG23	VAL	124	50.511	38.268	42.894	1.00	0.00	H
ATOM	1938	C	VAL	124	51.739	39.979	44.415	1.00	0.00	C
ATOM	1939	O	VAL	124	51.141	40.740	43.675	1.00	0.00	O
ATOM	1940	N	PHE	125	53.073	39.805	44.137	1.00	0.00	N
ATOM	1941	H	PHE	125	53.605	39.166	44.712	1.00	0.00	H
ATOM	1942	CA	PHE	125	53.765	40.386	43.008	1.00	0.00	C
ATOM	1943	HA	PHE	125	53.091	40.386	42.150	1.00	0.00	H
ATOM	1944	CB	PHE	125	54.095	41.842	43.343	1.00	0.00	C
ATOM	1945	HB2	PHE	125	54.666	42.275	42.522	1.00	0.00	H
ATOM	1946	HB3	PHE	125	53.169	42.414	43.408	1.00	0.00	H
ATOM	1947	CG	PHE	125	54.856	42.011	44.627	1.00	0.00	C
ATOM	1948	CD1	PHE	125	56.241	41.937	44.644	1.00	0.00	C

ATOM	1949	HD1	PHE	125	56.769	41.718	43.740	1.00	0.00	H
ATOM	1950	CE1	PHE	125	56.942	42.092	45.825	1.00	0.00	C
ATOM	1951	HE1	PHE	125	58.021	42.033	45.822	1.00	0.00	H
ATOM	1952	CZ	PHE	125	56.266	42.324	47.004	1.00	0.00	C
ATOM	1953	HZ	PHE	125	56.828	42.454	47.912	1.00	0.00	H
ATOM	1954	CE2	PHE	125	54.887	42.400	47.002	1.00	0.00	C
ATOM	1955	HE2	PHE	125	54.355	42.527	47.930	1.00	0.00	H
ATOM	1956	CD2	PHE	125	54.189	42.244	45.820	1.00	0.00	C
ATOM	1957	HD2	PHE	125	53.110	42.302	45.834	1.00	0.00	H
ATOM	1958	C	PHE	125	55.061	39.664	42.554	1.00	0.00	C
ATOM	1959	O	PHE	125	55.608	38.862	43.300	1.00	0.00	O
ATOM	1960	N	ALA	126	55.549	39.925	41.344	1.00	0.00	N
ATOM	1961	H	ALA	126	55.051	40.631	40.821	1.00	0.00	H
ATOM	1962	CA	ALA	126	56.633	39.287	40.580	1.00	0.00	C
ATOM	1963	HA	ALA	126	56.744	38.277	40.976	1.00	0.00	H
ATOM	1964	CB	ALA	126	56.398	39.147	39.081	1.00	0.00	C
ATOM	1965	HB1	ALA	126	57.201	38.561	38.632	1.00	0.00	H
ATOM	1966	HB2	ALA	126	55.447	38.643	38.902	1.00	0.00	H
ATOM	1967	HB3	ALA	126	56.379	40.135	38.618	1.00	0.00	H
ATOM	1968	C	ALA	126	58.000	40.010	40.817	1.00	0.00	C
ATOM	1969	O	ALA	126	59.068	39.656	40.375	1.00	0.00	O
ATOM	1970	N	HIE	127	57.954	41.020	41.648	1.00	0.00	N
ATOM	1971	H	HIE	127	57.069	41.270	42.060	1.00	0.00	H
ATOM	1972	CA	HIE	127	59.075	41.943	41.848	1.00	0.00	C
ATOM	1973	HA	HIE	127	59.551	42.128	40.883	1.00	0.00	H
ATOM	1974	CB	HIE	127	58.602	43.293	42.396	1.00	0.00	C
ATOM	1975	HB2	HIE	127	58.227	43.227	43.413	1.00	0.00	H
ATOM	1976	HB3	HIE	127	59.449	43.982	42.405	1.00	0.00	H
ATOM	1977	CG	HIE	127	57.516	43.926	41.582	1.00	0.00	C
ATOM	1978	ND1	HIE	127	57.626	44.124	40.221	1.00	0.00	N

ATOM	1979	CE1	HIE	127	56.523	44.698	39.773	1.00	0.00	C
ATOM	1980	HE1	HIE	127	56.321	44.939	38.745	1.00	0.00	H
ATOM	1981	NE2	HIE	127	55.704	44.879	40.793	1.00	0.00	N
ATOM	1982	HE2	HIE	127	54.789	45.305	40.736	1.00	0.00	H
ATOM	1983	CD2	HIE	127	56.300	44.405	41.935	1.00	0.00	C
ATOM	1984	HD2	HIE	127	55.889	44.403	42.931	1.00	0.00	H
ATOM	1985	C	HIE	127	60.073	41.399	42.762	1.00	0.00	C
ATOM	1986	O	HIE	127	60.090	41.901	43.893	1.00	0.00	O
ATOM	1987	N	THR	128	60.936	40.519	42.271	1.00	0.00	N
ATOM	1988	H	THR	128	60.806	40.222	41.312	1.00	0.00	H
ATOM	1989	CA	THR	128	62.048	39.923	42.962	1.00	0.00	C
ATOM	1990	HA	THR	128	61.709	39.608	43.948	1.00	0.00	H
ATOM	1991	CB	THR	128	62.546	38.682	42.199	1.00	0.00	C
ATOM	1992	HB	THR	128	63.420	38.274	42.707	1.00	0.00	H
ATOM	1993	CG2	THR	128	61.464	37.614	42.152	1.00	0.00	C
ATOM	1994	HG21	THR	128	61.877	36.711	41.702	1.00	0.00	H
ATOM	1995	HG22	THR	128	61.127	37.372	43.158	1.00	0.00	H
ATOM	1996	HG23	THR	128	60.616	37.941	41.553	1.00	0.00	H
ATOM	1997	OG1	THR	128	62.906	39.052	40.861	1.00	0.00	O
ATOM	1998	HG1	THR	128	63.315	38.297	40.433	1.00	0.00	H
ATOM	1999	C	THR	128	63.207	40.899	43.168	1.00	0.00	C
ATOM	2000	O	THR	128	64.119	40.591	43.956	1.00	0.00	O
ATOM	2001	N	GLN	129	63.234	42.081	42.584	1.00	0.00	N
ATOM	2002	H	GLN	129	62.453	42.332	41.995	1.00	0.00	H
ATOM	2003	CA	GLN	129	64.409	42.985	42.533	1.00	0.00	C
ATOM	2004	HA	GLN	129	65.308	42.373	42.450	1.00	0.00	H
ATOM	2005	CB	GLN	129	64.319	43.870	41.287	1.00	0.00	C
ATOM	2006	HB2	GLN	129	63.418	44.483	41.353	1.00	0.00	H
ATOM	2007	HB3	GLN	129	65.181	44.539	41.257	1.00	0.00	H
ATOM	2008	CG	GLN	129	64.264	43.100	39.979	1.00	0.00	C

ATOM	2009	HG2	GLN	129	63.398	42.437	39.965	1.00	0.00	H
ATOM	2010	HG3	GLN	129	64.138	43.818	39.167	1.00	0.00	H
ATOM	2011	CD	GLN	129	65.528	42.302	39.723	1.00	0.00	C
ATOM	2012	OE1	GLN	129	65.414	40.980	39.781	1.00	0.00	O
ATOM	2013	NE2	GLN	129	66.597	42.867	39.476	1.00	0.00	N
ATOM	2014	HE21	GLN	129	67.423	42.305	39.339	1.00	0.00	H
ATOM	2015	HE22	GLN	129	66.635	43.872	39.405	1.00	0.00	H
ATOM	2016	C	GLN	129	64.566	43.883	43.806	1.00	0.00	C
ATOM	2017	O	GLN	129	64.457	45.100	43.715	1.00	0.00	O
ATOM	2018	N	GLN	130	64.880	43.262	44.933	1.00	0.00	N
ATOM	2019	H	GLN	130	64.942	42.253	44.934	1.00	0.00	H
ATOM	2020	CA	GLN	130	65.273	43.962	46.155	1.00	0.00	C
ATOM	2021	HA	GLN	130	65.776	44.888	45.871	1.00	0.00	H
ATOM	2022	CB	GLN	130	64.020	44.337	46.951	1.00	0.00	C
ATOM	2023	HB2	GLN	130	64.324	44.925	47.819	1.00	0.00	H
ATOM	2024	HB3	GLN	130	63.388	44.970	46.326	1.00	0.00	H
ATOM	2025	CG	GLN	130	63.204	43.146	47.424	1.00	0.00	C
ATOM	2026	HG2	GLN	130	62.977	42.501	46.574	1.00	0.00	H
ATOM	2027	HG3	GLN	130	63.776	42.562	48.146	1.00	0.00	H
ATOM	2028	CD	GLN	130	61.896	43.561	48.070	1.00	0.00	C
ATOM	2029	OE1	GLN	130	61.775	44.667	48.604	1.00	0.00	O
ATOM	2030	NE2	GLN	130	60.908	42.674	48.026	1.00	0.00	N
ATOM	2031	HE21	GLN	130	61.056	41.774	47.592	1.00	0.00	H
ATOM	2032	HE22	GLN	130	60.009	42.917	48.408	1.00	0.00	H
ATOM	2033	C	GLN	130	66.246	43.141	47.053	1.00	0.00	C
ATOM	2034	O	GLN	130	66.357	41.963	47.015	1.00	0.00	O
ATOM	2035	N	SER	131	67.114	43.904	47.681	1.00	0.00	N
ATOM	2036	H	SER	131	67.024	44.904	47.578	1.00	0.00	H
ATOM	2037	CA	SER	131	68.238	43.420	48.543	1.00	0.00	C
ATOM	2038	HA	SER	131	68.401	42.363	48.327	1.00	0.00	H

ATOM	2039	CB	SER	131	69.507	44.147	48.141	1.00	0.00	C
ATOM	2040	HB2	SER	131	70.351	43.760	48.714	1.00	0.00	H
ATOM	2041	HB3	SER	131	69.699	43.973	47.082	1.00	0.00	H
ATOM	2042	OG	SER	131	69.387	45.526	48.363	1.00	0.00	O
ATOM	2043	HG	SER	131	70.189	45.954	48.053	1.00	0.00	H
ATOM	2044	C	SER	131	68.123	43.538	50.046	1.00	0.00	C
ATOM	2045	O	SER	131	68.790	42.761	50.790	1.00	0.00	O
ATOM	2046	N	ARG	132	67.142	44.278	50.521	1.00	0.00	N
ATOM	2047	H	ARG	132	66.559	44.799	49.883	1.00	0.00	H
ATOM	2048	CA	ARG	132	67.007	44.533	51.956	1.00	0.00	C
ATOM	2049	HA	ARG	132	67.989	44.433	52.423	1.00	0.00	H
ATOM	2050	CB	ARG	132	66.550	45.968	52.170	1.00	0.00	C
ATOM	2051	HB2	ARG	132	65.644	46.120	51.584	1.00	0.00	H
ATOM	2052	HB3	ARG	132	66.306	46.121	53.222	1.00	0.00	H
ATOM	2053	CG	ARG	132	67.566	47.029	51.777	1.00	0.00	C
ATOM	2054	HG2	ARG	132	68.465	46.917	52.385	1.00	0.00	H
ATOM	2055	HG3	ARG	132	67.840	46.898	50.730	1.00	0.00	H
ATOM	2056	CD	ARG	132	67.021	48.400	51.943	1.00	0.00	C
ATOM	2057	HD2	ARG	132	67.755	49.114	51.567	1.00	0.00	H
ATOM	2058	HD3	ARG	132	66.111	48.495	51.349	1.00	0.00	H
ATOM	2059	NE	ARG	132	66.740	48.708	53.336	1.00	0.00	N
ATOM	2060	HE	ARG	132	67.085	48.063	54.031	1.00	0.00	H
ATOM	2061	CZ	ARG	132	66.054	49.787	53.758	1.00	0.00	C
ATOM	2062	NH1	ARG	132	65.585	50.651	52.885	1.00	0.00	N
ATOM	2063	HH11	ARG	132	65.772	50.526	51.902	1.00	0.00	H
ATOM	2064	HH12	ARG	132	65.037	51.439	53.195	1.00	0.00	H
ATOM	2065	NH2	ARG	132	65.851	49.978	55.050	1.00	0.00	N
ATOM	2066	HH21	ARG	132	65.364	50.802	55.370	1.00	0.00	H
ATOM	2067	HH22	ARG	132	66.170	49.294	55.720	1.00	0.00	H
ATOM	2068	C	ARG	132	66.084	43.657	52.739	1.00	0.00	C

ATOM	2069	O	ARG	132	65.917	43.822	54.002	1.00	0.00	O
ATOM	2070	N	GLN	133	65.539	42.655	52.089	1.00	0.00	N
ATOM	2071	H	GLN	133	65.794	42.578	51.114	1.00	0.00	H
ATOM	2072	CA	GLN	133	64.588	41.593	52.537	1.00	0.00	C
ATOM	2073	HA	GLN	133	64.972	41.181	53.470	1.00	0.00	H
ATOM	2074	CB	GLN	133	63.186	42.160	52.776	1.00	0.00	C
ATOM	2075	HB2	GLN	133	62.597	41.449	53.347	1.00	0.00	H
ATOM	2076	HB3	GLN	133	63.259	43.053	53.399	1.00	0.00	H
ATOM	2077	CG	GLN	133	62.433	42.514	51.505	1.00	0.00	C
ATOM	2078	HG2	GLN	133	62.742	43.506	51.179	1.00	0.00	H
ATOM	2079	HG3	GLN	133	62.664	41.839	50.687	1.00	0.00	H
ATOM	2080	CD	GLN	133	60.929	42.498	51.700	1.00	0.00	C
ATOM	2081	OE1	GLN	133	60.356	43.414	52.297	1.00	0.00	O
ATOM	2082	NE2	GLN	133	60.279	41.454	51.198	1.00	0.00	N
ATOM	2083	HE21	GLN	133	60.790	40.736	50.701	1.00	0.00	H
ATOM	2084	HE22	GLN	133	59.282	41.380	51.320	1.00	0.00	H
ATOM	2085	C	GLN	133	64.569	40.485	51.417	1.00	0.00	C
ATOM	2086	O	GLN	133	65.128	40.743	50.312	1.00	0.00	O
ATOM	2087	N	PRO	134	64.036	39.312	51.698	1.00	0.00	N
ATOM	2088	CD	PRO	134	63.477	38.995	53.034	1.00	0.00	C
ATOM	2089	HD2	PRO	134	62.463	39.383	53.121	1.00	0.00	H
ATOM	2090	HD3	PRO	134	64.111	39.320	53.858	1.00	0.00	H
ATOM	2091	CG	PRO	134	63.413	37.491	53.000	1.00	0.00	C
ATOM	2092	HG2	PRO	134	62.648	37.102	53.651	1.00	0.00	H
ATOM	2093	HG3	PRO	134	64.387	37.074	53.262	1.00	0.00	H
ATOM	2094	CB	PRO	134	63.088	37.167	51.581	1.00	0.00	C
ATOM	2095	HB2	PRO	134	62.019	37.312	51.413	1.00	0.00	H
ATOM	2096	HB3	PRO	134	63.375	36.146	51.333	1.00	0.00	H
ATOM	2097	CA	PRO	134	63.896	38.184	50.769	1.00	0.00	C
ATOM	2098	HA	PRO	134	64.879	37.784	50.518	1.00	0.00	H

ATOM	2099	C	PRO	134	63.135	38.656	49.483	1.00	0.00	C
ATOM	2100	O	PRO	134	62.273	39.508	49.623	1.00	0.00	O
ATOM	2101	N	HID	135	63.410	38.167	48.299	1.00	0.00	N
ATOM	2102	H	HID	135	64.126	37.456	48.264	1.00	0.00	H
ATOM	2103	CA	HID	135	62.859	38.551	46.983	1.00	0.00	C
ATOM	2104	HA	HID	135	63.514	39.317	46.564	1.00	0.00	H
ATOM	2105	CB	HID	135	62.876	37.343	46.042	1.00	0.00	C
ATOM	2106	HB2	HID	135	62.358	36.503	46.507	1.00	0.00	H
ATOM	2107	HB3	HID	135	62.339	37.601	45.130	1.00	0.00	H
ATOM	2108	CG	HID	135	64.253	36.911	45.643	1.00	0.00	C
ATOM	2109	ND1	HID	135	65.120	37.734	44.954	1.00	0.00	N
ATOM	2110	HD1	HID	135	64.920	38.679	44.655	1.00	0.00	H
ATOM	2111	CE1	HID	135	66.255	37.090	44.740	1.00	0.00	C
ATOM	2112	HE1	HID	135	67.118	37.483	44.221	1.00	0.00	H
ATOM	2113	NE2	HID	135	66.154	35.883	45.264	1.00	0.00	N
ATOM	2114	CD2	HID	135	64.913	35.745	45.835	1.00	0.00	C
ATOM	2115	HD2	HID	135	64.533	34.869	46.341	1.00	0.00	H
ATOM	2116	C	HID	135	61.460	39.118	46.981	1.00	0.00	C
ATOM	2117	O	HID	135	61.241	40.239	46.656	1.00	0.00	O
ATOM	2118	N	LEU	136	60.447	38.423	47.518	1.00	0.00	N
ATOM	2119	H	LEU	136	60.642	37.516	47.919	1.00	0.00	H
ATOM	2120	CA	LEU	136	58.992	38.819	47.376	1.00	0.00	C
ATOM	2121	HA	LEU	136	58.909	39.760	46.833	1.00	0.00	H
ATOM	2122	CB	LEU	136	58.209	37.750	46.603	1.00	0.00	C
ATOM	2123	HB2	LEU	136	58.226	36.834	47.192	1.00	0.00	H
ATOM	2124	HB3	LEU	136	57.168	38.068	46.524	1.00	0.00	H
ATOM	2125	CG	LEU	136	58.731	37.429	45.196	1.00	0.00	C
ATOM	2126	HG	LEU	136	59.759	37.073	45.256	1.00	0.00	H
ATOM	2127	CD1	LEU	136	57.887	36.321	44.581	1.00	0.00	C
ATOM	2128	HD11	LEU	136	58.266	36.081	43.587	1.00	0.00	H

ATOM	2129	HD12	LEU	136	57.940	35.425	45.200	1.00	0.00	H
ATOM	2130	HD13	LEU	136	56.847	36.640	44.498	1.00	0.00	H
ATOM	2131	CD2	LEU	136	58.690	38.687	44.341	1.00	0.00	C
ATOM	2132	HD21	LEU	136	58.821	38.437	43.289	1.00	0.00	H
ATOM	2133	HD22	LEU	136	57.746	39.209	44.473	1.00	0.00	H
ATOM	2134	HD23	LEU	136	59.493	39.354	44.645	1.00	0.00	H
ATOM	2135	C	LEU	136	58.336	39.028	48.752	1.00	0.00	C
ATOM	2136	O	LEU	136	58.711	38.464	49.791	1.00	0.00	O
ATOM	2137	N	MET	137	57.154	39.765	48.735	1.00	0.00	N
ATOM	2138	H	MET	137	56.799	40.170	47.880	1.00	0.00	H
ATOM	2139	CA	MET	137	56.385	39.899	49.982	1.00	0.00	C
ATOM	2140	HA	MET	137	56.769	39.215	50.723	1.00	0.00	H
ATOM	2141	CB	MET	137	56.514	41.309	50.555	1.00	0.00	C
ATOM	2142	HB2	MET	137	57.575	41.523	50.675	1.00	0.00	H
ATOM	2143	HB3	MET	137	56.109	42.031	49.856	1.00	0.00	H
ATOM	2144	CG	MET	137	55.854	41.499	51.913	1.00	0.00	C
ATOM	2145	HG2	MET	137	55.996	40.602	52.516	1.00	0.00	H
ATOM	2146	HG3	MET	137	56.335	42.333	52.424	1.00	0.00	H
ATOM	2147	SD	MET	137	54.092	41.863	51.785	1.00	0.00	S
ATOM	2148	CE	MET	137	54.137	43.528	51.128	1.00	0.00	C
ATOM	2149	HE1	MET	137	53.121	43.901	51.010	1.00	0.00	H
ATOM	2150	HE2	MET	137	54.678	44.178	51.816	1.00	0.00	H
ATOM	2151	HE3	MET	137	54.630	43.533	50.161	1.00	0.00	H
ATOM	2152	C	MET	137	54.917	39.553	49.693	1.00	0.00	C
ATOM	2153	O	MET	137	54.329	40.005	48.732	1.00	0.00	O
ATOM	2154	N	VAL	138	54.219	38.829	50.553	1.00	0.00	N
ATOM	2155	H	VAL	138	54.670	38.515	51.396	1.00	0.00	H
ATOM	2156	CA	VAL	138	52.782	38.488	50.402	1.00	0.00	C
ATOM	2157	HA	VAL	138	52.390	38.938	49.495	1.00	0.00	H
ATOM	2158	CB	VAL	138	52.534	36.969	50.331	1.00	0.00	C

ATOM	2159	HB	VAL	138	52.920	36.496	51.235	1.00	0.00	H
ATOM	2160	CG1	VAL	138	51.045	36.677	50.232	1.00	0.00	C
ATOM	2161	HG11	VAL	138	50.898	35.606	50.092	1.00	0.00	H
ATOM	2162	HG12	VAL	138	50.525	36.966	51.144	1.00	0.00	H
ATOM	2163	HG13	VAL	138	50.611	37.201	49.381	1.00	0.00	H
ATOM	2164	CG2	VAL	138	53.280	36.378	49.144	1.00	0.00	C
ATOM	2165	HG21	VAL	138	53.094	35.305	49.086	1.00	0.00	H
ATOM	2166	HG22	VAL	138	52.945	36.851	48.222	1.00	0.00	H
ATOM	2167	HG23	VAL	138	54.349	36.543	49.248	1.00	0.00	H
ATOM	2168	C	VAL	138	52.092	39.023	51.558	1.00	0.00	C
ATOM	2169	O	VAL	138	52.360	38.657	52.678	1.00	0.00	O
ATOM	2170	N	VAL	139	51.044	39.791	51.276	1.00	0.00	N
ATOM	2171	H	VAL	139	50.809	40.019	50.319	1.00	0.00	H
ATOM	2172	CA	VAL	139	50.200	40.272	52.381	1.00	0.00	C
ATOM	2173	HA	VAL	139	50.814	40.445	53.267	1.00	0.00	H
ATOM	2174	CB	VAL	139	49.548	41.613	51.997	1.00	0.00	C
ATOM	2175	HB	VAL	139	48.915	41.454	51.131	1.00	0.00	H
ATOM	2176	CG1	VAL	139	48.659	42.115	53.125	1.00	0.00	C
ATOM	2177	HG11	VAL	139	48.208	43.062	52.848	1.00	0.00	H
ATOM	2178	HG12	VAL	139	47.850	41.414	53.305	1.00	0.00	H
ATOM	2179	HG13	VAL	139	49.242	42.242	54.038	1.00	0.00	H
ATOM	2180	CG2	VAL	139	50.623	42.636	51.662	1.00	0.00	C
ATOM	2181	HG21	VAL	139	50.168	43.591	51.416	1.00	0.00	H
ATOM	2182	HG22	VAL	139	51.289	42.762	52.513	1.00	0.00	H
ATOM	2183	HG23	VAL	139	51.198	42.317	50.793	1.00	0.00	H
ATOM	2184	C	VAL	139	49.089	39.214	52.733	1.00	0.00	C
ATOM	2185	O	VAL	139	48.266	38.830	51.888	1.00	0.00	O
ATOM	2186	N	VAL	140	49.120	38.678	53.916	1.00	0.00	N
ATOM	2187	H	VAL	140	49.824	39.012	54.551	1.00	0.00	H
ATOM	2188	CA	VAL	140	48.265	37.582	54.399	1.00	0.00	C

ATOM	2189	HA	VAL	140	47.799	37.081	53.550	1.00	0.00	H
ATOM	2190	CB	VAL	140	49.135	36.546	55.136	1.00	0.00	C
ATOM	2191	HB	VAL	140	49.602	37.011	55.994	1.00	0.00	H
ATOM	2192	CG1	VAL	140	48.280	35.390	55.633	1.00	0.00	C
ATOM	2193	HG11	VAL	140	48.923	34.684	56.154	1.00	0.00	H
ATOM	2194	HG12	VAL	140	47.525	35.730	56.341	1.00	0.00	H
ATOM	2195	HG13	VAL	140	47.793	34.885	54.797	1.00	0.00	H
ATOM	2196	CG2	VAL	140	50.237	36.046	54.215	1.00	0.00	C
ATOM	2197	HG21	VAL	140	50.786	35.252	54.719	1.00	0.00	H
ATOM	2198	HG22	VAL	140	49.821	35.641	53.298	1.00	0.00	H
ATOM	2199	HG23	VAL	140	50.942	36.841	53.980	1.00	0.00	H
ATOM	2200	C	VAL	140	47.112	38.095	55.359	1.00	0.00	C
ATOM	2201	O	VAL	140	47.304	38.548	56.440	1.00	0.00	O
ATOM	2202	N	VAL	141	45.858	38.079	54.906	1.00	0.00	N
ATOM	2203	H	VAL	141	45.698	37.692	53.985	1.00	0.00	H
ATOM	2204	CA	VAL	141	44.684	38.603	55.592	1.00	0.00	C
ATOM	2205	HA	VAL	141	44.957	38.868	56.614	1.00	0.00	H
ATOM	2206	CB	VAL	141	44.224	39.893	54.886	1.00	0.00	C
ATOM	2207	HB	VAL	141	44.105	39.705	53.823	1.00	0.00	H
ATOM	2208	CG1	VAL	141	42.880	40.348	55.433	1.00	0.00	C
ATOM	2209	HG11	VAL	141	42.603	41.285	54.957	1.00	0.00	H
ATOM	2210	HG12	VAL	141	42.084	39.650	55.174	1.00	0.00	H
ATOM	2211	HG13	VAL	141	42.929	40.479	56.515	1.00	0.00	H
ATOM	2212	CG2	VAL	141	45.273	40.980	55.059	1.00	0.00	C
ATOM	2213	HG21	VAL	141	44.889	41.939	54.738	1.00	0.00	H
ATOM	2214	HG22	VAL	141	45.545	41.060	56.110	1.00	0.00	H
ATOM	2215	HG23	VAL	141	46.156	40.736	54.476	1.00	0.00	H
ATOM	2216	C	VAL	141	43.496	37.676	55.687	1.00	0.00	C
ATOM	2217	O	VAL	141	43.148	36.927	54.742	1.00	0.00	O
ATOM	2218	N	GLN	142	42.899	37.568	56.882	1.00	0.00	N

ATOM	2219	H	GLN	142	43.214	38.155	57.640	1.00	0.00	H
ATOM	2220	CA	GLN	142	41.808	36.666	57.156	1.00	0.00	C
ATOM	2221	HA	GLN	142	41.844	35.820	56.468	1.00	0.00	H
ATOM	2222	CB	GLN	142	41.917	36.115	58.580	1.00	0.00	C
ATOM	2223	HB2	GLN	142	41.806	36.942	59.280	1.00	0.00	H
ATOM	2224	HB3	GLN	142	41.104	35.412	58.753	1.00	0.00	H
ATOM	2225	CG	GLN	142	43.247	35.450	58.890	1.00	0.00	C
ATOM	2226	HG2	GLN	142	44.032	36.207	58.915	1.00	0.00	H
ATOM	2227	HG3	GLN	142	43.192	35.000	59.879	1.00	0.00	H
ATOM	2228	CD	GLN	142	43.601	34.368	57.888	1.00	0.00	C
ATOM	2229	OE1	GLN	142	42.830	33.429	57.669	1.00	0.00	O
ATOM	2230	NE2	GLN	142	44.772	34.492	57.274	1.00	0.00	N
ATOM	2231	HE21	GLN	142	45.383	35.267	57.471	1.00	0.00	H
ATOM	2232	HE22	GLN	142	45.047	33.784	56.602	1.00	0.00	H
ATOM	2233	C	GLN	142	40.462	37.389	56.952	1.00	0.00	C
ATOM	2234	O	GLN	142	40.389	38.590	57.254	1.00	0.00	O
ATOM	2235	N	LEU	143	39.411	36.715	56.561	1.00	0.00	N
ATOM	2236	H	LEU	143	39.496	35.724	56.398	1.00	0.00	H
ATOM	2237	CA	LEU	143	38.077	37.287	56.543	1.00	0.00	C
ATOM	2238	HA	LEU	143	38.086	38.333	56.849	1.00	0.00	H
ATOM	2239	CB	LEU	143	37.456	37.199	55.144	1.00	0.00	C
ATOM	2240	HB2	LEU	143	37.282	36.147	54.937	1.00	0.00	H
ATOM	2241	HB3	LEU	143	36.486	37.698	55.165	1.00	0.00	H
ATOM	2242	CG	LEU	143	38.303	37.776	54.002	1.00	0.00	C
ATOM	2243	HG	LEU	143	39.267	37.268	53.960	1.00	0.00	H
ATOM	2244	CD1	LEU	143	37.595	37.541	52.675	1.00	0.00	C
ATOM	2245	HD11	LEU	143	38.214	37.915	51.861	1.00	0.00	H
ATOM	2246	HD12	LEU	143	37.434	36.475	52.522	1.00	0.00	H
ATOM	2247	HD13	LEU	143	36.638	38.060	52.659	1.00	0.00	H
ATOM	2248	CD2	LEU	143	38.536	39.260	54.243	1.00	0.00	C

ATOM	2249	HD21	LEU	143	39.019	39.700	53.375	1.00	0.00	H
ATOM	2250	HD22	LEU	143	37.584	39.765	54.403	1.00	0.00	H
ATOM	2251	HD23	LEU	143	39.189	39.406	55.100	1.00	0.00	H
ATOM	2252	C	LEU	143	37.248	36.486	57.583	1.00	0.00	C
ATOM	2253	O	LEU	143	37.440	35.241	57.654	1.00	0.00	O
ATOM	2254	N	VAL	144	36.373	37.197	58.326	1.00	0.00	N
ATOM	2255	H	VAL	144	36.307	38.196	58.185	1.00	0.00	H
ATOM	2256	CA	VAL	144	35.448	36.600	59.236	1.00	0.00	C
ATOM	2257	HA	VAL	144	35.562	35.516	59.212	1.00	0.00	H
ATOM	2258	CB	VAL	144	35.765	37.077	60.665	1.00	0.00	C
ATOM	2259	HB	VAL	144	36.793	36.802	60.902	1.00	0.00	H
ATOM	2260	CG1	VAL	144	35.618	38.588	60.768	1.00	0.00	C
ATOM	2261	HG11	VAL	144	35.863	38.889	61.786	1.00	0.00	H
ATOM	2262	HG12	VAL	144	36.313	39.097	60.113	1.00	0.00	H
ATOM	2263	HG13	VAL	144	34.599	38.920	60.581	1.00	0.00	H
ATOM	2264	CG2	VAL	144	34.851	36.378	61.659	1.00	0.00	C
ATOM	2265	HG21	VAL	144	35.175	36.613	62.673	1.00	0.00	H
ATOM	2266	HG22	VAL	144	33.819	36.708	61.545	1.00	0.00	H
ATOM	2267	HG23	VAL	144	34.904	35.297	61.521	1.00	0.00	H
ATOM	2268	C	VAL	144	33.976	36.940	58.875	1.00	0.00	C
ATOM	2269	O	VAL	144	33.655	38.120	58.493	1.00	0.00	O
ATOM	2270	N	ALA	145	33.068	35.963	58.925	1.00	0.00	N
ATOM	2271	H	ALA	145	33.399	35.059	59.226	1.00	0.00	H
ATOM	2272	CA	ALA	145	31.615	36.042	58.685	1.00	0.00	C
ATOM	2273	HA	ALA	145	31.452	36.465	57.695	1.00	0.00	H
ATOM	2274	CB	ALA	145	31.080	34.617	58.685	1.00	0.00	C
ATOM	2275	HB1	ALA	145	30.006	34.623	58.520	1.00	0.00	H
ATOM	2276	HB2	ALA	145	31.562	34.040	57.895	1.00	0.00	H
ATOM	2277	HB3	ALA	145	31.284	34.145	59.647	1.00	0.00	H
ATOM	2278	C	ALA	145	30.917	36.954	59.687	1.00	0.00	C

ATOM	2279	O	ALA	145	31.151	36.747	60.873	1.00	0.00	O
ATOM	2280	N	SER	146	29.939	37.852	59.320	1.00	0.00	N
ATOM	2281	H	SER	146	29.741	37.991	58.340	1.00	0.00	H
ATOM	2282	CA	SER	146	29.172	38.661	60.312	1.00	0.00	C
ATOM	2283	HA	SER	146	29.020	38.062	61.211	1.00	0.00	H
ATOM	2284	CB	SER	146	29.963	39.898	60.691	1.00	0.00	C
ATOM	2285	HB2	SER	146	30.994	39.619	60.911	1.00	0.00	H
ATOM	2286	HB3	SER	146	29.960	40.601	59.857	1.00	0.00	H
ATOM	2287	OG	SER	146	29.419	40.513	61.827	1.00	0.00	O
ATOM	2288	HG	SER	146	29.624	39.971	62.594	1.00	0.00	H
ATOM	2289	C	SER	146	27.783	39.084	59.788	1.00	0.00	C
ATOM	2290	O	SER	146	27.290	38.678	58.731	1.00	0.00	O
ATOM	2291	N	ASP	147	27.192	39.982	60.510	1.00	0.00	N
ATOM	2292	H	ASP	147	27.622	40.336	61.353	1.00	0.00	H
ATOM	2293	CA	ASP	147	25.845	40.515	60.133	1.00	0.00	C
ATOM	2294	HA	ASP	147	25.290	39.727	59.624	1.00	0.00	H
ATOM	2295	CB	ASP	147	25.071	40.833	61.415	1.00	0.00	C
ATOM	2296	HB2	ASP	147	24.057	41.160	61.179	1.00	0.00	H
ATOM	2297	HB3	ASP	147	24.982	39.914	61.997	1.00	0.00	H
ATOM	2298	CG	ASP	147	25.765	41.874	62.283	1.00	0.00	C
ATOM	2299	OD1	ASP	147	26.935	42.101	62.084	1.00	0.00	O
ATOM	2300	OD2	ASP	147	25.118	42.434	63.135	1.00	0.00	O
ATOM	2301	C	ASP	147	25.790	41.778	59.205	1.00	0.00	C
ATOM	2302	O	ASP	147	24.777	42.500	59.197	1.00	0.00	O
ATOM	2303	N	LYS	148	26.951	42.207	58.758	1.00	0.00	N
ATOM	2304	H	LYS	148	27.758	41.631	58.953	1.00	0.00	H
ATOM	2305	CA	LYS	148	27.206	43.393	58.008	1.00	0.00	C
ATOM	2306	HA	LYS	148	26.348	43.579	57.361	1.00	0.00	H
ATOM	2307	CB	LYS	148	27.335	44.576	58.969	1.00	0.00	C
ATOM	2308	HB2	LYS	148	27.470	45.489	58.387	1.00	0.00	H

ATOM	2309	HB3	LYS	148	26.394	44.677	59.511	1.00	0.00	H
ATOM	2310	CG	LYS	148	28.476	44.452	59.969	1.00	0.00	C
ATOM	2311	HG2	LYS	148	28.368	43.561	60.583	1.00	0.00	H
ATOM	2312	HG3	LYS	148	29.413	44.365	59.420	1.00	0.00	H
ATOM	2313	CD	LYS	148	28.584	45.694	60.842	1.00	0.00	C
ATOM	2314	HD2	LYS	148	29.531	45.671	61.383	1.00	0.00	H
ATOM	2315	HD3	LYS	148	28.573	46.586	60.214	1.00	0.00	H
ATOM	2316	CE	LYS	148	27.441	45.768	61.843	1.00	0.00	C
ATOM	2317	HE2	LYS	148	27.467	46.745	62.327	1.00	0.00	H
ATOM	2318	HE3	LYS	148	26.488	45.667	61.322	1.00	0.00	H
ATOM	2319	NZ	LYS	148	27.549	44.716	62.890	1.00	0.00	N
ATOM	2320	HZ1	LYS	148	26.788	44.804	63.548	1.00	0.00	H
ATOM	2321	HZ2	LYS	148	27.482	43.798	62.467	1.00	0.00	H
ATOM	2322	HZ3	LYS	148	28.430	44.794	63.375	1.00	0.00	H
ATOM	2323	C	LYS	148	28.447	43.300	57.115	1.00	0.00	C
ATOM	2324	O	LYS	148	29.381	42.552	57.434	1.00	0.00	O
ATOM	2325	N	ILE	149	28.622	44.321	56.202	1.00	0.00	N
ATOM	2326	H	ILE	149	27.915	45.028	56.068	1.00	0.00	H
ATOM	2327	CA	ILE	149	29.782	44.277	55.277	1.00	0.00	C
ATOM	2328	HA	ILE	149	30.578	43.679	55.721	1.00	0.00	H
ATOM	2329	CB	ILE	149	29.381	43.620	53.943	1.00	0.00	C
ATOM	2330	HB	ILE	149	28.978	42.632	54.158	1.00	0.00	H
ATOM	2331	CG2	ILE	149	28.308	44.444	53.247	1.00	0.00	C
ATOM	2332	HG21	ILE	149	27.998	43.960	52.322	1.00	0.00	H
ATOM	2333	HG22	ILE	149	27.424	44.525	53.880	1.00	0.00	H
ATOM	2334	HG23	ILE	149	28.663	45.447	53.022	1.00	0.00	H
ATOM	2335	CG1	ILE	149	30.605	43.455	53.040	1.00	0.00	C
ATOM	2336	HG12	ILE	149	30.938	44.422	52.664	1.00	0.00	H
ATOM	2337	HG13	ILE	149	31.418	43.031	53.628	1.00	0.00	H
ATOM	2338	CD1	ILE	149	30.375	42.538	51.860	1.00	0.00	C

ATOM	2339	HD11	ILE	149	31.319	42.383	51.341	1.00	0.00	H
ATOM	2340	HD12	ILE	149	29.997	41.575	52.205	1.00	0.00	H
ATOM	2341	HD13	ILE	149	29.663	42.971	51.160	1.00	0.00	H
ATOM	2342	C	ILE	149	30.375	45.696	54.998	1.00	0.00	C
ATOM	2343	O	ILE	149	29.653	46.680	55.176	1.00	0.00	O
ATOM	2344	N	ASN	150	31.755	45.773	54.884	1.00	0.00	N
ATOM	2345	H	ASN	150	32.266	44.902	54.906	1.00	0.00	H
ATOM	2346	CA	ASN	150	32.563	46.973	54.612	1.00	0.00	C
ATOM	2347	HA	ASN	150	32.343	47.688	55.407	1.00	0.00	H
ATOM	2348	CB	ASN	150	34.035	46.620	54.714	1.00	0.00	C
ATOM	2349	HB2	ASN	150	34.196	46.073	55.646	1.00	0.00	H
ATOM	2350	HB3	ASN	150	34.321	45.962	53.892	1.00	0.00	H
ATOM	2351	CG	ASN	150	34.923	47.833	54.698	1.00	0.00	C
ATOM	2352	OD1	ASN	150	34.696	48.774	53.927	1.00	0.00	O
ATOM	2353	ND2	ASN	150	35.930	47.831	55.533	1.00	0.00	N
ATOM	2354	HD21	ASN	150	36.093	47.037	56.135	1.00	0.00	H
ATOM	2355	HD22	ASN	150	36.571	48.610	55.532	1.00	0.00	H
ATOM	2356	C	ASN	150	32.289	47.662	53.260	1.00	0.00	C
ATOM	2357	O	ASN	150	32.417	47.013	52.207	1.00	0.00	O
ATOM	2358	N	SER	151	31.846	48.903	53.300	1.00	0.00	N
ATOM	2359	H	SER	151	31.776	49.379	54.188	1.00	0.00	H
ATOM	2360	CA	SER	151	31.238	49.577	52.089	1.00	0.00	C
ATOM	2361	HA	SER	151	30.370	48.999	51.774	1.00	0.00	H
ATOM	2362	CB	SER	151	30.767	50.973	52.445	1.00	0.00	C
ATOM	2363	HB2	SER	151	30.228	51.401	51.600	1.00	0.00	H
ATOM	2364	HB3	SER	151	30.091	50.918	53.299	1.00	0.00	H
ATOM	2365	OG	SER	151	31.850	51.802	52.766	1.00	0.00	O
ATOM	2366	HG	SER	151	32.317	52.021	51.956	1.00	0.00	H
ATOM	2367	C	SER	151	32.222	49.668	50.905	1.00	0.00	C
ATOM	2368	O	SER	151	31.756	49.831	49.755	1.00	0.00	O

ATOM	2369	N	THR	152	33.537	49.584	51.229	1.00	0.00	N
ATOM	2370	H	THR	152	33.756	49.451	52.207	1.00	0.00	H
ATOM	2371	CA	THR	152	34.715	49.676	50.318	1.00	0.00	C
ATOM	2372	HA	THR	152	34.546	50.521	49.649	1.00	0.00	H
ATOM	2373	CB	THR	152	36.010	49.946	51.107	1.00	0.00	C
ATOM	2374	HB	THR	152	36.844	50.078	50.417	1.00	0.00	H
ATOM	2375	CG2	THR	152	35.872	51.211	51.941	1.00	0.00	C
ATOM	2376	HG21	THR	152	36.826	51.424	52.420	1.00	0.00	H
ATOM	2377	HG22	THR	152	35.605	52.048	51.297	1.00	0.00	H
ATOM	2378	HG23	THR	152	35.112	51.100	52.714	1.00	0.00	H
ATOM	2379	OG1	THR	152	36.286	48.836	51.971	1.00	0.00	O
ATOM	2380	HG1	THR	152	35.626	48.822	52.675	1.00	0.00	H
ATOM	2381	C	THR	152	34.955	48.484	49.474	1.00	0.00	C
ATOM	2382	O	THR	152	35.830	48.678	48.616	1.00	0.00	O
ATOM	2383	N	SER	153	34.261	47.358	49.651	1.00	0.00	N
ATOM	2384	H	SER	153	33.603	47.308	50.417	1.00	0.00	H
ATOM	2385	CA	SER	153	34.369	46.170	48.770	1.00	0.00	C
ATOM	2386	HA	SER	153	34.960	46.441	47.899	1.00	0.00	H
ATOM	2387	CB	SER	153	35.105	45.071	49.511	1.00	0.00	C
ATOM	2388	HB2	SER	153	35.240	44.207	48.861	1.00	0.00	H
ATOM	2389	HB3	SER	153	36.088	45.440	49.805	1.00	0.00	H
ATOM	2390	OG	SER	153	34.401	44.681	50.659	1.00	0.00	O
ATOM	2391	HG	SER	153	34.922	44.022	51.125	1.00	0.00	H
ATOM	2392	C	SER	153	33.040	45.599	48.245	1.00	0.00	C
ATOM	2393	O	SER	153	33.086	44.647	47.532	1.00	0.00	O
ATOM	2394	N	VAL	154	31.845	46.137	48.669	1.00	0.00	N
ATOM	2395	H	VAL	154	31.859	46.937	49.285	1.00	0.00	H
ATOM	2396	CA	VAL	154	30.568	45.505	48.411	1.00	0.00	C
ATOM	2397	HA	VAL	154	30.573	44.518	48.876	1.00	0.00	H
ATOM	2398	CB	VAL	154	29.461	46.356	49.060	1.00	0.00	C

ATOM	2399	HB	VAL	154	29.553	47.390	48.722	1.00	0.00	H
ATOM	2400	CG1	VAL	154	28.088	45.853	48.642	1.00	0.00	C
ATOM	2401	HG11	VAL	154	27.320	46.372	49.216	1.00	0.00	H
ATOM	2402	HG12	VAL	154	27.902	46.060	47.588	1.00	0.00	H
ATOM	2403	HG13	VAL	154	28.011	44.783	48.834	1.00	0.00	H
ATOM	2404	CG2	VAL	154	29.607	46.329	50.574	1.00	0.00	C
ATOM	2405	HG21	VAL	154	28.752	46.822	51.037	1.00	0.00	H
ATOM	2406	HG22	VAL	154	29.679	45.304	50.925	1.00	0.00	H
ATOM	2407	HG23	VAL	154	30.493	46.884	50.848	1.00	0.00	H
ATOM	2408	C	VAL	154	30.266	45.308	46.861	1.00	0.00	C
ATOM	2409	O	VAL	154	29.863	44.217	46.469	1.00	0.00	O
ATOM	2410	N	ALA	155	30.453	46.311	45.979	1.00	0.00	N
ATOM	2411	H	ALA	155	30.815	47.189	46.320	1.00	0.00	H
ATOM	2412	CA	ALA	155	30.076	46.265	44.551	1.00	0.00	C
ATOM	2413	HA	ALA	155	28.998	46.108	44.493	1.00	0.00	H
ATOM	2414	CB	ALA	155	30.399	47.571	43.836	1.00	0.00	C
ATOM	2415	HB1	ALA	155	29.908	47.585	42.868	1.00	0.00	H
ATOM	2416	HB2	ALA	155	30.012	48.410	44.416	1.00	0.00	H
ATOM	2417	HB3	ALA	155	31.470	47.701	43.709	1.00	0.00	H
ATOM	2418	C	ALA	155	30.777	45.142	43.760	1.00	0.00	C
ATOM	2419	O	ALA	155	30.112	44.263	43.284	1.00	0.00	O
ATOM	2420	N	ALA	156	32.133	45.086	43.872	1.00	0.00	N
ATOM	2421	H	ALA	156	32.648	45.827	44.326	1.00	0.00	H
ATOM	2422	CA	ALA	156	32.834	44.029	43.257	1.00	0.00	C
ATOM	2423	HA	ALA	156	32.596	44.030	42.194	1.00	0.00	H
ATOM	2424	CB	ALA	156	34.304	44.369	43.386	1.00	0.00	C
ATOM	2425	HB1	ALA	156	34.902	43.545	42.994	1.00	0.00	H
ATOM	2426	HB2	ALA	156	34.556	45.257	42.819	1.00	0.00	H
ATOM	2427	HB3	ALA	156	34.542	44.492	44.439	1.00	0.00	H
ATOM	2428	C	ALA	156	32.553	42.619	43.781	1.00	0.00	C

ATOM	2429	O	ALA	156	32.442	41.652	43.014	1.00	0.00	O
ATOM	2430	N	LEU	157	32.424	42.513	45.092	1.00	0.00	N
ATOM	2431	H	LEU	157	32.518	43.322	45.690	1.00	0.00	H
ATOM	2432	CA	LEU	157	32.286	41.160	45.701	1.00	0.00	C
ATOM	2433	HA	LEU	157	33.094	40.524	45.345	1.00	0.00	H
ATOM	2434	CB	LEU	157	32.308	41.217	47.234	1.00	0.00	C
ATOM	2435	HB2	LEU	157	31.574	41.958	47.556	1.00	0.00	H
ATOM	2436	HB3	LEU	157	31.982	40.253	47.625	1.00	0.00	H
ATOM	2437	CG	LEU	157	33.661	41.567	47.867	1.00	0.00	C
ATOM	2438	HG	LEU	157	34.046	42.494	47.458	1.00	0.00	H
ATOM	2439	CD1	LEU	157	33.496	41.704	49.374	1.00	0.00	C
ATOM	2440	HD11	LEU	157	34.460	41.925	49.829	1.00	0.00	H
ATOM	2441	HD12	LEU	157	32.813	42.525	49.589	1.00	0.00	H
ATOM	2442	HD13	LEU	157	33.105	40.779	49.799	1.00	0.00	H
ATOM	2443	CD2	LEU	157	34.677	40.487	47.524	1.00	0.00	C
ATOM	2444	HD21	LEU	157	35.605	40.679	48.063	1.00	0.00	H
ATOM	2445	HD22	LEU	157	34.307	39.505	47.808	1.00	0.00	H
ATOM	2446	HD23	LEU	157	34.909	40.497	46.461	1.00	0.00	H
ATOM	2447	C	LEU	157	31.024	40.554	45.269	1.00	0.00	C
ATOM	2448	O	LEU	157	31.036	39.312	45.101	1.00	0.00	O
ATOM	2449	N	LYS	158	29.903	41.333	45.172	1.00	0.00	N
ATOM	2450	H	LYS	158	30.032	42.310	45.400	1.00	0.00	H
ATOM	2451	CA	LYS	158	28.605	41.019	44.663	1.00	0.00	C
ATOM	2452	HA	LYS	158	28.241	40.137	45.187	1.00	0.00	H
ATOM	2453	CB	LYS	158	27.655	42.178	44.968	1.00	0.00	C
ATOM	2454	HB2	LYS	158	28.116	43.124	44.681	1.00	0.00	H
ATOM	2455	HB3	LYS	158	26.763	42.051	44.352	1.00	0.00	H
ATOM	2456	CG	LYS	158	27.195	42.249	46.419	1.00	0.00	C
ATOM	2457	HG2	LYS	158	26.747	41.291	46.686	1.00	0.00	H
ATOM	2458	HG3	LYS	158	28.046	42.425	47.077	1.00	0.00	H

ATOM	2459	CD	LYS	158	26.159	43.345	46.616	1.00	0.00	C
ATOM	2460	HD2	LYS	158	26.634	44.316	46.473	1.00	0.00	H
ATOM	2461	HD3	LYS	158	25.368	43.232	45.873	1.00	0.00	H
ATOM	2462	CE	LYS	158	25.533	43.273	48.002	1.00	0.00	C
ATOM	2463	HE2	LYS	158	25.036	42.308	48.115	1.00	0.00	H
ATOM	2464	HE3	LYS	158	26.324	43.347	48.750	1.00	0.00	H
ATOM	2465	NZ	LYS	158	24.546	44.365	48.224	1.00	0.00	N
ATOM	2466	HZ1	LYS	158	23.806	44.301	47.539	1.00	0.00	H
ATOM	2467	HZ2	LYS	158	24.151	44.283	49.151	1.00	0.00	H
ATOM	2468	HZ3	LYS	158	25.001	45.263	48.135	1.00	0.00	H
ATOM	2469	C	LYS	158	28.539	40.705	43.202	1.00	0.00	C
ATOM	2470	O	LYS	158	27.931	39.737	42.744	1.00	0.00	O
ATOM	2471	N	HIE	159	29.389	41.385	42.437	1.00	0.00	N
ATOM	2472	H	HIE	159	29.935	42.137	42.834	1.00	0.00	H
ATOM	2473	CA	HIE	159	29.595	41.039	41.046	1.00	0.00	C
ATOM	2474	HA	HIE	159	28.622	40.914	40.569	1.00	0.00	H
ATOM	2475	CB	HIE	159	30.348	42.160	40.321	1.00	0.00	C
ATOM	2476	HB2	HIE	159	29.912	43.112	40.622	1.00	0.00	H
ATOM	2477	HB3	HIE	159	31.392	42.159	40.622	1.00	0.00	H
ATOM	2478	CG	HIE	159	30.254	42.079	38.828	1.00	0.00	C
ATOM	2479	ND1	HIE	159	30.654	43.108	38.002	1.00	0.00	N
ATOM	2480	CE1	HIE	159	30.457	42.758	36.742	1.00	0.00	C
ATOM	2481	HE1	HIE	159	30.657	43.352	35.867	1.00	0.00	H
ATOM	2482	NE2	HIE	159	29.944	41.541	36.724	1.00	0.00	N
ATOM	2483	HE2	HIE	159	29.681	41.026	35.896	1.00	0.00	H
ATOM	2484	CD2	HIE	159	29.807	41.094	38.015	1.00	0.00	C
ATOM	2485	HD2	HIE	159	29.427	40.137	38.319	1.00	0.00	H
ATOM	2486	C	HIE	159	30.381	39.693	40.954	1.00	0.00	C
ATOM	2487	O	HIE	159	29.959	38.782	40.230	1.00	0.00	O
ATOM	2488	N	ILE	160	31.457	39.418	41.697	1.00	0.00	N

ATOM	2489	H	ILE	160	31.777	40.133	42.329	1.00	0.00	H
ATOM	2490	CA	ILE	160	32.261	38.200	41.659	1.00	0.00	C
ATOM	2491	HA	ILE	160	32.663	38.098	40.649	1.00	0.00	H
ATOM	2492	CB	ILE	160	33.445	38.336	42.634	1.00	0.00	C
ATOM	2493	HB	ILE	160	33.066	38.647	43.607	1.00	0.00	H
ATOM	2494	CG2	ILE	160	34.144	36.997	42.812	1.00	0.00	C
ATOM	2495	HG21	ILE	160	35.076	37.109	43.362	1.00	0.00	H
ATOM	2496	HG22	ILE	160	33.533	36.306	43.392	1.00	0.00	H
ATOM	2497	HG23	ILE	160	34.365	36.553	41.842	1.00	0.00	H
ATOM	2498	CG1	ILE	160	34.429	39.396	42.134	1.00	0.00	C
ATOM	2499	HG12	ILE	160	34.957	39.023	41.262	1.00	0.00	H
ATOM	2500	HG13	ILE	160	33.903	40.278	41.809	1.00	0.00	H
ATOM	2501	CD1	ILE	160	35.449	39.818	43.167	1.00	0.00	C
ATOM	2502	HD11	ILE	160	36.004	40.680	42.797	1.00	0.00	H
ATOM	2503	HD12	ILE	160	34.948	40.099	44.091	1.00	0.00	H
ATOM	2504	HD13	ILE	160	36.154	39.013	43.367	1.00	0.00	H
ATOM	2505	C	ILE	160	31.524	36.899	41.977	1.00	0.00	C
ATOM	2506	O	ILE	160	31.333	36.016	41.130	1.00	0.00	O
ATOM	2507	N	LEU	161	30.790	36.858	43.107	1.00	0.00	N
ATOM	2508	H	LEU	161	30.842	37.646	43.737	1.00	0.00	H
ATOM	2509	CA	LEU	161	29.999	35.688	43.557	1.00	0.00	C
ATOM	2510	HA	LEU	161	30.653	34.815	43.547	1.00	0.00	H
ATOM	2511	CB	LEU	161	29.508	35.909	44.993	1.00	0.00	C
ATOM	2512	HB2	LEU	161	29.019	35.008	45.344	1.00	0.00	H
ATOM	2513	HB3	LEU	161	30.395	36.017	45.609	1.00	0.00	H
ATOM	2514	CG	LEU	161	28.619	37.140	45.210	1.00	0.00	C
ATOM	2515	HG	LEU	161	28.924	37.954	44.558	1.00	0.00	H
ATOM	2516	CD1	LEU	161	27.173	36.786	44.892	1.00	0.00	C
ATOM	2517	HD11	LEU	161	26.496	37.486	45.380	1.00	0.00	H
ATOM	2518	HD12	LEU	161	27.010	36.872	43.827	1.00	0.00	H

ATOM	2519	HD13	LEU	161	26.930	35.776	45.217	1.00	0.00	H
ATOM	2520	CD2	LEU	161	28.761	37.622	46.646	1.00	0.00	C
ATOM	2521	HD21	LEU	161	28.123	38.489	46.813	1.00	0.00	H
ATOM	2522	HD22	LEU	161	28.478	36.833	47.340	1.00	0.00	H
ATOM	2523	HD23	LEU	161	29.790	37.914	46.844	1.00	0.00	H
ATOM	2524	C	LEU	161	28.804	35.380	42.685	1.00	0.00	C
ATOM	2525	O	LEU	161	28.135	34.374	42.971	1.00	0.00	O
ATOM	2526	N	LEU	162	28.469	36.108	41.591	1.00	0.00	N
ATOM	2527	H	LEU	162	29.079	36.887	41.386	1.00	0.00	H
ATOM	2528	CA	LEU	162	27.395	35.939	40.652	1.00	0.00	C
ATOM	2529	HA	LEU	162	26.974	34.948	40.809	1.00	0.00	H
ATOM	2530	CB	LEU	162	26.323	36.988	40.972	1.00	0.00	C
ATOM	2531	HB2	LEU	162	25.949	36.807	41.977	1.00	0.00	H
ATOM	2532	HB3	LEU	162	26.792	37.973	40.953	1.00	0.00	H
ATOM	2533	CG	LEU	162	25.116	37.017	40.025	1.00	0.00	C
ATOM	2534	HG	LEU	162	25.416	37.278	39.020	1.00	0.00	H
ATOM	2535	CD1	LEU	162	24.426	35.660	40.040	1.00	0.00	C
ATOM	2536	HD11	LEU	162	23.525	35.704	39.428	1.00	0.00	H
ATOM	2537	HD12	LEU	162	25.062	34.883	39.628	1.00	0.00	H
ATOM	2538	HD13	LEU	162	24.149	35.389	41.059	1.00	0.00	H
ATOM	2539	CD2	LEU	162	24.161	38.121	40.453	1.00	0.00	C
ATOM	2540	HD21	LEU	162	23.307	38.152	39.776	1.00	0.00	H
ATOM	2541	HD22	LEU	162	23.808	37.943	41.469	1.00	0.00	H
ATOM	2542	HD23	LEU	162	24.671	39.084	40.412	1.00	0.00	H
ATOM	2543	C	LEU	162	27.787	36.034	39.139	1.00	0.00	C
ATOM	2544	O	LEU	162	26.954	35.692	38.283	1.00	0.00	O
ATOM	2545	N	ASP	163	28.956	36.567	38.821	1.00	0.00	N
ATOM	2546	H	ASP	163	29.606	36.800	39.560	1.00	0.00	H
ATOM	2547	CA	ASP	163	29.330	36.989	37.433	1.00	0.00	C
ATOM	2548	HA	ASP	163	30.242	37.577	37.513	1.00	0.00	H

ATOM	2549	CB	ASP	163	29.621	35.757	36.572	1.00	0.00	C
ATOM	2550	HB2	ASP	163	28.761	35.086	36.559	1.00	0.00	H
ATOM	2551	HB3	ASP	163	29.824	36.056	35.543	1.00	0.00	H
ATOM	2552	CG	ASP	163	30.863	34.999	37.022	1.00	0.00	C
ATOM	2553	OD1	ASP	163	31.794	35.632	37.461	1.00	0.00	O
ATOM	2554	OD2	ASP	163	30.868	33.796	36.922	1.00	0.00	O
ATOM	2555	C	ASP	163	28.364	37.814	36.673	1.00	0.00	C
ATOM	2556	O	ASP	163	28.075	37.750	35.473	1.00	0.00	O
ATOM	2557	N	GLY	164	27.593	38.658	37.405	1.00	0.00	N
ATOM	2558	H	GLY	164	27.796	38.718	38.392	1.00	0.00	H
ATOM	2559	CA	GLY	164	26.432	39.348	36.974	1.00	0.00	C
ATOM	2560	HA2	GLY	164	26.133	40.047	37.755	1.00	0.00	H
ATOM	2561	HA3	GLY	164	26.675	39.919	36.077	1.00	0.00	H
ATOM	2562	C	GLY	164	25.190	38.379	36.647	1.00	0.00	C
ATOM	2563	O	GLY	164	24.065	38.591	37.095	1.00	0.00	O
ATOM	2564	N	SER	165	25.507	37.335	35.889	1.00	0.00	N
ATOM	2565	H	SER	165	26.431	37.222	35.508	1.00	0.00	H
ATOM	2566	CA	SER	165	24.646	36.182	35.904	1.00	0.00	C
ATOM	2567	HA	SER	165	24.200	36.077	36.895	1.00	0.00	H
ATOM	2568	CB	SER	165	23.526	36.383	34.902	1.00	0.00	C
ATOM	2569	HB2	SER	165	23.950	36.580	33.917	1.00	0.00	H
ATOM	2570	HB3	SER	165	22.918	35.481	34.848	1.00	0.00	H
ATOM	2571	OG	SER	165	22.703	37.453	35.276	1.00	0.00	O
ATOM	2572	HG	SER	165	23.261	38.188	35.549	1.00	0.00	H
ATOM	2573	C	SER	165	25.450	34.869	35.588	1.00	0.00	C
ATOM	2574	O	SER	165	26.062	34.658	34.531	1.00	0.00	O
ATOM	2575	N	LEU	166	25.512	34.063	36.641	1.00	0.00	N
ATOM	2576	H	LEU	166	25.079	34.333	37.512	1.00	0.00	H
ATOM	2577	CA	LEU	166	26.334	32.817	36.613	1.00	0.00	C
ATOM	2578	HA	LEU	166	27.253	33.024	36.061	1.00	0.00	H

ATOM	2579	CB	LEU	166	26.729	32.446	38.048	1.00	0.00	C
ATOM	2580	HB2	LEU	166	27.634	31.843	38.010	1.00	0.00	H
ATOM	2581	HB3	LEU	166	27.024	33.343	38.577	1.00	0.00	H
ATOM	2582	CG	LEU	166	25.656	31.714	38.865	1.00	0.00	C
ATOM	2583	HG	LEU	166	24.670	32.122	38.656	1.00	0.00	H
ATOM	2584	CD1	LEU	166	25.677	30.231	38.519	1.00	0.00	C
ATOM	2585	HD11	LEU	166	25.350	29.661	39.389	1.00	0.00	H
ATOM	2586	HD12	LEU	166	24.965	29.979	37.741	1.00	0.00	H
ATOM	2587	HD13	LEU	166	26.673	29.875	38.269	1.00	0.00	H
ATOM	2588	CD2	LEU	166	25.911	31.933	40.349	1.00	0.00	C
ATOM	2589	HD21	LEU	166	25.153	31.413	40.936	1.00	0.00	H
ATOM	2590	HD22	LEU	166	26.898	31.553	40.619	1.00	0.00	H
ATOM	2591	HD23	LEU	166	25.862	32.991	40.593	1.00	0.00	H
ATOM	2592	C	LEU	166	25.609	31.583	35.929	1.00	0.00	C
ATOM	2593	O	LEU	166	26.329	30.645	35.638	1.00	0.00	O
ATOM	2594	N	PRO	167	24.318	31.510	35.685	1.00	0.00	N
ATOM	2595	CD	PRO	167	23.346	32.553	36.081	1.00	0.00	C
ATOM	2596	HD2	PRO	167	23.371	33.381	35.376	1.00	0.00	H
ATOM	2597	HD3	PRO	167	23.431	32.874	37.117	1.00	0.00	H
ATOM	2598	CG	PRO	167	22.043	31.819	35.906	1.00	0.00	C
ATOM	2599	HG2	PRO	167	21.232	32.502	35.651	1.00	0.00	H
ATOM	2600	HG3	PRO	167	21.804	31.276	36.823	1.00	0.00	H
ATOM	2601	CB	PRO	167	22.308	30.849	34.807	1.00	0.00	C
ATOM	2602	HB2	PRO	167	22.281	31.367	33.847	1.00	0.00	H
ATOM	2603	HB3	PRO	167	21.582	30.035	34.811	1.00	0.00	H
ATOM	2604	CA	PRO	167	23.721	30.331	35.095	1.00	0.00	C
ATOM	2605	HA	PRO	167	23.678	29.535	35.839	1.00	0.00	H
ATOM	2606	C	PRO	167	24.461	29.792	33.757	1.00	0.00	C
ATOM	2607	O	PRO	167	24.497	28.594	33.543	1.00	0.00	O
ATOM	2608	N	PRO	168	25.077	30.597	32.808	1.00	0.00	N

ATOM	2609	CD	PRO	168	25.085	32.090	32.832	1.00	0.00	C
ATOM	2610	HD2	PRO	168	25.867	32.432	33.506	1.00	0.00	H
ATOM	2611	HD3	PRO	168	24.116	32.513	33.092	1.00	0.00	H
ATOM	2612	CG	PRO	168	25.466	32.452	31.421	1.00	0.00	C
ATOM	2613	HG2	PRO	168	25.956	33.425	31.380	1.00	0.00	H
ATOM	2614	HG3	PRO	168	24.575	32.452	30.791	1.00	0.00	H
ATOM	2615	CB	PRO	168	26.382	31.357	30.992	1.00	0.00	C
ATOM	2616	HB2	PRO	168	27.370	31.529	31.423	1.00	0.00	H
ATOM	2617	HB3	PRO	168	26.453	31.296	29.906	1.00	0.00	H
ATOM	2618	CA	PRO	168	25.756	30.090	31.584	1.00	0.00	C
ATOM	2619	HA	PRO	168	25.010	29.687	30.898	1.00	0.00	H
ATOM	2620	C	PRO	168	26.833	29.029	31.910	1.00	0.00	C
ATOM	2621	O	PRO	168	27.686	29.155	32.794	1.00	0.00	O
ATOM	2622	N	LYS	169	26.750	27.837	31.316	1.00	0.00	N
ATOM	2623	H	LYS	169	26.022	27.700	30.631	1.00	0.00	H
ATOM	2624	CA	LYS	169	27.613	26.666	31.608	1.00	0.00	C
ATOM	2625	HA	LYS	169	27.126	25.783	31.195	1.00	0.00	H
ATOM	2626	CB	LYS	169	28.968	26.840	30.922	1.00	0.00	C
ATOM	2627	HB2	LYS	169	29.463	27.732	31.312	1.00	0.00	H
ATOM	2628	HB3	LYS	169	29.599	25.978	31.147	1.00	0.00	H
ATOM	2629	CG	LYS	169	28.898	26.928	29.403	1.00	0.00	C
ATOM	2630	HG2	LYS	169	28.404	26.036	29.014	1.00	0.00	H
ATOM	2631	HG3	LYS	169	28.318	27.805	29.114	1.00	0.00	H
ATOM	2632	CD	LYS	169	30.287	27.037	28.791	1.00	0.00	C
ATOM	2633	HD2	LYS	169	30.786	27.920	29.194	1.00	0.00	H
ATOM	2634	HD3	LYS	169	30.868	26.152	29.055	1.00	0.00	H
ATOM	2635	CE	LYS	169	30.217	27.155	27.276	1.00	0.00	C
ATOM	2636	HE2	LYS	169	29.733	26.264	26.873	1.00	0.00	H
ATOM	2637	HE3	LYS	169	29.612	28.026	27.019	1.00	0.00	H
ATOM	2638	NZ	LYS	169	31.566	27.301	26.666	1.00	0.00	N

ATOM	2639	HZ1	LYS	169	31.482	27.393	25.663	1.00	0.00	H
ATOM	2640	HZ2	LYS	169	32.020	28.124	27.040	1.00	0.00	H
ATOM	2641	HZ3	LYS	169	32.127	26.487	26.878	1.00	0.00	H
ATOM	2642	C	LYS	169	27.833	26.401	33.118	1.00	0.00	C
ATOM	2643	O	LYS	169	28.864	25.906	33.448	1.00	0.00	O
ATOM	2644	N	ARG	170	26.776	26.605	33.925	1.00	0.00	N
ATOM	2645	H	ARG	170	25.957	27.004	33.488	1.00	0.00	H
ATOM	2646	CA	ARG	170	26.667	26.431	35.398	1.00	0.00	C
ATOM	2647	HA	ARG	170	25.780	26.967	35.737	1.00	0.00	H
ATOM	2648	CB	ARG	170	26.505	24.950	35.711	1.00	0.00	C
ATOM	2649	HB2	ARG	170	27.397	24.411	35.384	1.00	0.00	H
ATOM	2650	HB3	ARG	170	26.409	24.828	36.791	1.00	0.00	H
ATOM	2651	CG	ARG	170	25.276	24.298	35.099	1.00	0.00	C
ATOM	2652	HG2	ARG	170	24.388	24.848	35.416	1.00	0.00	H
ATOM	2653	HG3	ARG	170	25.344	24.339	34.011	1.00	0.00	H
ATOM	2654	CD	ARG	170	25.144	22.878	35.515	1.00	0.00	C
ATOM	2655	HD2	ARG	170	26.038	22.336	35.203	1.00	0.00	H
ATOM	2656	HD3	ARG	170	25.066	22.832	36.603	1.00	0.00	H
ATOM	2657	NE	ARG	170	23.972	22.248	34.927	1.00	0.00	N
ATOM	2658	HE	ARG	170	23.367	22.834	34.371	1.00	0.00	H
ATOM	2659	CZ	ARG	170	23.645	20.949	35.079	1.00	0.00	C
ATOM	2660	NH1	ARG	170	24.408	20.159	35.800	1.00	0.00	N
ATOM	2661	HH11	ARG	170	24.179	19.182	35.898	1.00	0.00	H
ATOM	2662	HH12	ARG	170	25.223	20.536	36.260	1.00	0.00	H
ATOM	2663	NH2	ARG	170	22.556	20.471	34.502	1.00	0.00	N
ATOM	2664	HH21	ARG	170	21.955	21.086	33.975	1.00	0.00	H
ATOM	2665	HH22	ARG	170	22.322	19.494	34.592	1.00	0.00	H
ATOM	2666	C	ARG	170	27.930	27.026	36.214	1.00	0.00	C
ATOM	2667	O	ARG	170	28.270	26.318	37.209	1.00	0.00	O
ATOM	2668	N	ALA	171	28.594	28.065	35.743	1.00	0.00	N

ATOM	2669	H	ALA	171	28.194	28.519	34.934	1.00	0.00	H
ATOM	2670	CA	ALA	171	29.854	28.639	36.192	1.00	0.00	C
ATOM	2671	HA	ALA	171	30.048	29.470	35.514	1.00	0.00	H
ATOM	2672	CB	ALA	171	29.530	29.262	37.548	1.00	0.00	C
ATOM	2673	HB1	ALA	171	30.380	29.851	37.895	1.00	0.00	H
ATOM	2674	HB2	ALA	171	28.689	29.940	37.440	1.00	0.00	H
ATOM	2675	HB3	ALA	171	29.304	28.498	38.293	1.00	0.00	H
ATOM	2676	C	ALA	171	31.170	27.814	36.210	1.00	0.00	C
ATOM	2677	O	ALA	171	31.987	27.923	37.106	1.00	0.00	O
ATOM	2678	N	VAL	172	31.317	26.876	35.277	1.00	0.00	N
ATOM	2679	H	VAL	172	30.582	26.771	34.591	1.00	0.00	H
ATOM	2680	CA	VAL	172	32.503	25.984	35.126	1.00	0.00	C
ATOM	2681	HA	VAL	172	32.843	25.675	36.109	1.00	0.00	H
ATOM	2682	CB	VAL	172	32.129	24.721	34.329	1.00	0.00	C
ATOM	2683	HB	VAL	172	31.743	25.012	33.350	1.00	0.00	H
ATOM	2684	CG1	VAL	172	33.351	23.839	34.124	1.00	0.00	C
ATOM	2685	HG11	VAL	172	33.039	22.882	33.705	1.00	0.00	H
ATOM	2686	HG12	VAL	172	34.046	24.290	33.417	1.00	0.00	H
ATOM	2687	HG13	VAL	172	33.852	23.657	35.076	1.00	0.00	H
ATOM	2688	CG2	VAL	172	31.029	23.959	35.053	1.00	0.00	C
ATOM	2689	HG21	VAL	172	30.678	23.145	34.418	1.00	0.00	H
ATOM	2690	HG22	VAL	172	31.414	23.530	35.975	1.00	0.00	H
ATOM	2691	HG23	VAL	172	30.176	24.594	35.284	1.00	0.00	H
ATOM	2692	C	VAL	172	33.665	26.651	34.431	1.00	0.00	C
ATOM	2693	O	VAL	172	33.523	26.976	33.253	1.00	0.00	O
ATOM	2694	N	THR	173	34.868	26.855	35.036	1.00	0.00	N
ATOM	2695	H	THR	173	34.966	26.573	36.000	1.00	0.00	H
ATOM	2696	CA	THR	173	36.008	27.513	34.424	1.00	0.00	C
ATOM	2697	HA	THR	173	36.695	27.773	35.229	1.00	0.00	H
ATOM	2698	CB	THR	173	36.717	26.484	33.524	1.00	0.00	C

ATOM	2699	HB	THR	173	37.646	26.914	33.148	1.00	0.00	H
ATOM	2700	CG2	THR	173	37.050	25.226	34.312	1.00	0.00	C
ATOM	2701	HG21	THR	173	37.729	24.628	33.710	1.00	0.00	H
ATOM	2702	HG22	THR	173	37.552	25.494	35.242	1.00	0.00	H
ATOM	2703	HG23	THR	173	36.160	24.638	34.532	1.00	0.00	H
ATOM	2704	OG1	THR	173	35.867	26.143	32.422	1.00	0.00	O
ATOM	2705	HG1	THR	173	35.701	26.955	31.933	1.00	0.00	H
ATOM	2706	C	THR	173	35.759	28.840	33.593	1.00	0.00	C
ATOM	2707	O	THR	173	36.279	28.985	32.468	1.00	0.00	O
ATOM	2708	N	THR	174	34.878	29.684	34.181	1.00	0.00	N
ATOM	2709	H	THR	174	34.492	29.436	35.081	1.00	0.00	H
ATOM	2710	CA	THR	174	34.448	30.954	33.616	1.00	0.00	C
ATOM	2711	HA	THR	174	35.240	31.322	32.963	1.00	0.00	H
ATOM	2712	CB	THR	174	33.179	30.774	32.763	1.00	0.00	C
ATOM	2713	HB	THR	174	33.364	30.020	31.998	1.00	0.00	H
ATOM	2714	CG2	THR	174	32.012	30.328	33.630	1.00	0.00	C
ATOM	2715	HG21	THR	174	31.155	30.122	32.989	1.00	0.00	H
ATOM	2716	HG22	THR	174	32.262	29.412	34.160	1.00	0.00	H
ATOM	2717	HG23	THR	174	31.727	31.099	34.346	1.00	0.00	H
ATOM	2718	OG1	THR	174	32.849	32.015	32.125	1.00	0.00	O
ATOM	2719	HG1	THR	174	33.535	32.221	31.486	1.00	0.00	H
ATOM	2720	C	THR	174	34.183	32.003	34.631	1.00	0.00	C
ATOM	2721	O	THR	174	34.068	31.717	35.816	1.00	0.00	O
ATOM	2722	N	CYS	175	34.225	33.330	34.309	1.00	0.00	N
ATOM	2723	H	CYS	175	34.400	33.557	33.342	1.00	0.00	H
ATOM	2724	CA	CYS	175	33.965	34.461	35.149	1.00	0.00	C
ATOM	2725	HA	CYS	175	33.044	34.248	35.690	1.00	0.00	H
ATOM	2726	CB	CYS	175	35.091	34.556	36.179	1.00	0.00	C
ATOM	2727	HB2	CYS	175	34.954	35.458	36.767	1.00	0.00	H
ATOM	2728	HB3	CYS	175	35.027	33.716	36.868	1.00	0.00	H

ATOM	2729	SG	CYS	175	36.751	34.559	35.461	1.00	0.00	S
ATOM	2730	HG	CYS	175	36.647	35.752	34.839	1.00	0.00	H
ATOM	2731	C	CYS	175	33.808	35.821	34.537	1.00	0.00	C
ATOM	2732	O	CYS	175	34.429	36.139	33.493	1.00	0.00	O
ATOM	2733	N	THR	176	33.104	36.766	35.262	1.00	0.00	N
ATOM	2734	H	THR	176	32.684	36.460	36.129	1.00	0.00	H
ATOM	2735	CA	THR	176	32.906	38.232	34.928	1.00	0.00	C
ATOM	2736	HA	THR	176	33.686	38.515	34.220	1.00	0.00	H
ATOM	2737	CB	THR	176	31.547	38.447	34.237	1.00	0.00	C
ATOM	2738	HB	THR	176	30.744	38.168	34.918	1.00	0.00	H
ATOM	2739	CG2	THR	176	31.375	39.906	33.841	1.00	0.00	C
ATOM	2740	HG21	THR	176	31.279	40.543	34.714	1.00	0.00	H
ATOM	2741	HG22	THR	176	32.226	40.235	33.243	1.00	0.00	H
ATOM	2742	HG23	THR	176	30.465	40.013	33.249	1.00	0.00	H
ATOM	2743	OG1	THR	176	31.469	37.626	33.064	1.00	0.00	O
ATOM	2744	HG1	THR	176	31.498	36.707	33.341	1.00	0.00	H
ATOM	2745	C	THR	176	32.988	39.208	36.122	1.00	0.00	C
ATOM	2746	O	THR	176	32.286	39.041	37.152	1.00	0.00	O
ATOM	2747	N	LEU	177	33.682	40.316	36.000	1.00	0.00	N
ATOM	2748	H	LEU	177	34.178	40.458	35.132	1.00	0.00	H
ATOM	2749	CA	LEU	177	33.808	41.413	37.006	1.00	0.00	C
ATOM	2750	HA	LEU	177	32.867	41.499	37.549	1.00	0.00	H
ATOM	2751	CB	LEU	177	34.929	41.115	38.010	1.00	0.00	C
ATOM	2752	HB2	LEU	177	34.656	40.226	38.581	1.00	0.00	H
ATOM	2753	HB3	LEU	177	35.828	40.891	37.436	1.00	0.00	H
ATOM	2754	CG	LEU	177	35.278	42.255	38.975	1.00	0.00	C
ATOM	2755	HG	LEU	177	35.578	43.144	38.423	1.00	0.00	H
ATOM	2756	CD1	LEU	177	34.059	42.595	39.822	1.00	0.00	C
ATOM	2757	HD11	LEU	177	34.348	43.279	40.618	1.00	0.00	H
ATOM	2758	HD12	LEU	177	33.296	43.086	39.225	1.00	0.00	H

ATOM	2759	HD13	LEU	177	33.635	41.694	40.253	1.00	0.00	H
ATOM	2760	CD2	LEU	177	36.452	41.839	39.849	1.00	0.00	C
ATOM	2761	HD21	LEU	177	36.642	42.602	40.604	1.00	0.00	H
ATOM	2762	HD22	LEU	177	36.239	40.895	40.347	1.00	0.00	H
ATOM	2763	HD23	LEU	177	37.343	41.728	39.238	1.00	0.00	H
ATOM	2764	C	LEU	177	34.096	42.735	36.278	1.00	0.00	C
ATOM	2765	O	LEU	177	34.888	42.895	35.364	1.00	0.00	O
ATOM	2766	N	THR	178	33.346	43.761	36.662	1.00	0.00	N
ATOM	2767	H	THR	178	32.628	43.580	37.349	1.00	0.00	H
ATOM	2768	CA	THR	178	33.586	45.199	36.330	1.00	0.00	C
ATOM	2769	HA	THR	178	34.616	45.307	35.989	1.00	0.00	H
ATOM	2770	CB	THR	178	32.660	45.662	35.191	1.00	0.00	C
ATOM	2771	HB	THR	178	32.921	46.682	34.906	1.00	0.00	H
ATOM	2772	CG2	THR	178	32.812	44.757	33.978	1.00	0.00	C
ATOM	2773	HG21	THR	178	32.238	45.184	33.155	1.00	0.00	H
ATOM	2774	HG22	THR	178	33.858	44.710	33.674	1.00	0.00	H
ATOM	2775	HG23	THR	178	32.432	43.754	34.175	1.00	0.00	H
ATOM	2776	OG1	THR	178	31.297	45.633	35.636	1.00	0.00	O
ATOM	2777	HG1	THR	178	31.183	46.285	36.334	1.00	0.00	H
ATOM	2778	C	THR	178	33.408	46.152	37.489	1.00	0.00	C
ATOM	2779	O	THR	178	33.882	47.282	37.386	1.00	0.00	O
ATOM	2780	N	GLU	179	32.580	45.742	38.433	1.00	0.00	N
ATOM	2781	H	GLU	179	32.154	44.827	38.394	1.00	0.00	H
ATOM	2782	CA	GLU	179	32.258	46.625	39.536	1.00	0.00	C
ATOM	2783	HA	GLU	179	31.907	47.580	39.140	1.00	0.00	H
ATOM	2784	CB	GLU	179	31.138	46.025	40.389	1.00	0.00	C
ATOM	2785	HB2	GLU	179	31.409	45.001	40.639	1.00	0.00	H
ATOM	2786	HB3	GLU	179	31.069	46.583	41.316	1.00	0.00	H
ATOM	2787	CG	GLU	179	29.774	46.008	39.713	1.00	0.00	C
ATOM	2788	HG2	GLU	179	29.851	45.525	38.739	1.00	0.00	H

ATOM	2789	HG3	GLU	179	29.093	45.417	40.327	1.00	0.00	H
ATOM	2790	CD	GLU	179	29.186	47.381	39.548	1.00	0.00	C
ATOM	2791	OE1	GLU	179	29.141	48.107	40.512	1.00	0.00	O
ATOM	2792	OE2	GLU	179	28.781	47.705	38.456	1.00	0.00	O
ATOM	2793	C	GLU	179	33.503	46.882	40.395	1.00	0.00	C
ATOM	2794	O	GLU	179	34.451	46.072	40.386	1.00	0.00	O
ATOM	2795	N	ASN	180	33.550	47.988	41.062	1.00	0.00	N
ATOM	2796	H	ASN	180	32.762	48.620	41.035	1.00	0.00	H
ATOM	2797	CA	ASN	180	34.778	48.424	41.801	1.00	0.00	C
ATOM	2798	HA	ASN	180	35.641	48.066	41.248	1.00	0.00	H
ATOM	2799	CB	ASN	180	34.864	49.939	41.774	1.00	0.00	C
ATOM	2800	HB2	ASN	180	35.801	50.266	42.225	1.00	0.00	H
ATOM	2801	HB3	ASN	180	34.863	50.274	40.735	1.00	0.00	H
ATOM	2802	CG	ASN	180	33.726	50.595	42.506	1.00	0.00	C
ATOM	2803	OD1	ASN	180	33.263	51.705	41.990	1.00	0.00	O
ATOM	2804	ND2	ASN	180	33.266	50.096	43.539	1.00	0.00	N
ATOM	2805	HD21	ASN	180	32.461	50.531	43.962	1.00	0.00	H
ATOM	2806	HD22	ASN	180	33.662	49.265	43.946	1.00	0.00	H
ATOM	2807	C	ASN	180	34.908	47.926	43.276	1.00	0.00	C
ATOM	2808	O	ASN	180	33.943	47.386	43.840	1.00	0.00	O
ATOM	2809	N	MET	181	36.128	48.134	43.805	1.00	0.00	N
ATOM	2810	H	MET	181	36.832	48.541	43.203	1.00	0.00	H
ATOM	2811	CA	MET	181	36.501	47.976	45.140	1.00	0.00	C
ATOM	2812	HA	MET	181	35.811	48.538	45.772	1.00	0.00	H
ATOM	2813	CB	MET	181	36.452	46.504	45.545	1.00	0.00	C
ATOM	2814	HB2	MET	181	36.742	46.444	46.594	1.00	0.00	H
ATOM	2815	HB3	MET	181	35.432	46.139	45.479	1.00	0.00	H
ATOM	2816	CG	MET	181	37.393	45.603	44.758	1.00	0.00	C
ATOM	2817	HG2	MET	181	37.157	45.696	43.703	1.00	0.00	H
ATOM	2818	HG3	MET	181	38.427	45.910	44.918	1.00	0.00	H

ATOM	2819	SD	MET	181	37.214	43.861	45.193	1.00	0.00	S
ATOM	2820	CE	MET	181	37.852	43.862	46.866	1.00	0.00	C
ATOM	2821	HE1	MET	181	37.056	44.124	47.560	1.00	0.00	H
ATOM	2822	HE2	MET	181	38.213	42.863	47.097	1.00	0.00	H
ATOM	2823	HE3	MET	181	38.668	44.578	46.956	1.00	0.00	H
ATOM	2824	C	MET	181	37.879	48.556	45.287	1.00	0.00	C
ATOM	2825	O	MET	181	38.663	48.850	44.317	1.00	0.00	O
ATOM	2826	N	THR	182	38.284	48.848	46.532	1.00	0.00	N
ATOM	2827	H	THR	182	37.700	48.665	47.337	1.00	0.00	H
ATOM	2828	CA	THR	182	39.669	49.267	46.716	1.00	0.00	C
ATOM	2829	HA	THR	182	40.253	49.275	45.797	1.00	0.00	H
ATOM	2830	CB	THR	182	39.776	50.679	47.322	1.00	0.00	C
ATOM	2831	HB	THR	182	39.226	50.717	48.264	1.00	0.00	H
ATOM	2832	CG2	THR	182	41.230	51.037	47.586	1.00	0.00	C
ATOM	2833	HG21	THR	182	41.292	52.067	47.930	1.00	0.00	H
ATOM	2834	HG22	THR	182	41.617	50.387	48.361	1.00	0.00	H
ATOM	2835	HG23	THR	182	41.824	50.922	46.679	1.00	0.00	H
ATOM	2836	OG1	THR	182	39.208	51.634	46.416	1.00	0.00	O
ATOM	2837	HG1	THR	182	38.253	51.525	46.408	1.00	0.00	H
ATOM	2838	C	THR	182	40.323	48.227	47.634	1.00	0.00	C
ATOM	2839	O	THR	182	39.769	47.917	48.661	1.00	0.00	O
ATOM	2840	N	ILE	183	41.474	47.620	47.258	1.00	0.00	N
ATOM	2841	H	ILE	183	41.884	47.884	46.373	1.00	0.00	H
ATOM	2842	CA	ILE	183	42.165	46.608	48.002	1.00	0.00	C
ATOM	2843	HA	ILE	183	41.486	45.773	48.175	1.00	0.00	H
ATOM	2844	CB	ILE	183	43.382	46.106	47.203	1.00	0.00	C
ATOM	2845	HB	ILE	183	43.763	46.914	46.574	1.00	0.00	H
ATOM	2846	CG2	ILE	183	44.507	45.704	48.145	1.00	0.00	C
ATOM	2847	HG21	ILE	183	45.314	45.266	47.557	1.00	0.00	H
ATOM	2848	HG22	ILE	183	44.944	46.558	48.664	1.00	0.00	H

ATOM	2849	HG23	ILE	183	44.168	44.948	48.847	1.00	0.00	H
ATOM	2850	CG1	ILE	183	42.985	44.932	46.305	1.00	0.00	C
ATOM	2851	HG12	ILE	183	43.839	44.663	45.688	1.00	0.00	H
ATOM	2852	HG13	ILE	183	42.737	44.069	46.925	1.00	0.00	H
ATOM	2853	CD1	ILE	183	41.805	45.223	45.406	1.00	0.00	C
ATOM	2854	HD11	ILE	183	41.692	44.405	44.694	1.00	0.00	H
ATOM	2855	HD12	ILE	183	40.882	45.297	45.980	1.00	0.00	H
ATOM	2856	HD13	ILE	183	41.976	46.145	44.848	1.00	0.00	H
ATOM	2857	C	ILE	183	42.614	47.123	49.390	1.00	0.00	C
ATOM	2858	O	ILE	183	42.335	46.504	50.405	1.00	0.00	O
ATOM	2859	N	ALA	184	43.084	48.361	49.377	1.00	0.00	N
ATOM	2860	H	ALA	184	43.216	48.812	48.484	1.00	0.00	H
ATOM	2861	CA	ALA	184	43.457	49.108	50.540	1.00	0.00	C
ATOM	2862	HA	ALA	184	44.273	48.581	51.032	1.00	0.00	H
ATOM	2863	CB	ALA	184	43.992	50.468	50.018	1.00	0.00	C
ATOM	2864	HB1	ALA	184	43.190	51.088	49.632	1.00	0.00	H
ATOM	2865	HB2	ALA	184	44.469	50.999	50.843	1.00	0.00	H
ATOM	2866	HB3	ALA	184	44.732	50.298	49.243	1.00	0.00	H
ATOM	2867	C	ALA	184	42.313	49.282	51.567	1.00	0.00	C
ATOM	2868	O	ALA	184	42.493	49.186	52.795	1.00	0.00	O
ATOM	2869	N	GLY	185	41.021	49.454	51.136	1.00	0.00	N
ATOM	2870	H	GLY	185	40.860	49.515	50.142	1.00	0.00	H
ATOM	2871	CA	GLY	185	39.790	49.431	52.011	1.00	0.00	C
ATOM	2872	HA2	GLY	185	40.030	49.903	52.965	1.00	0.00	H
ATOM	2873	HA3	GLY	185	39.037	50.049	51.523	1.00	0.00	H
ATOM	2874	C	GLY	185	39.164	48.098	52.289	1.00	0.00	C
ATOM	2875	O	GLY	185	38.627	47.895	53.346	1.00	0.00	O
ATOM	2876	N	PHE	186	39.432	47.079	51.444	1.00	0.00	N
ATOM	2877	H	PHE	186	39.969	47.304	50.619	1.00	0.00	H
ATOM	2878	CA	PHE	186	39.042	45.715	51.561	1.00	0.00	C

ATOM	2879	HA	PHE	186	37.979	45.730	51.790	1.00	0.00	H
ATOM	2880	CB	PHE	186	39.299	44.979	50.245	1.00	0.00	C
ATOM	2881	HB2	PHE	186	38.821	45.530	49.435	1.00	0.00	H
ATOM	2882	HB3	PHE	186	40.369	44.945	50.048	1.00	0.00	H
ATOM	2883	CG	PHE	186	38.758	43.578	50.218	1.00	0.00	C
ATOM	2884	CD1	PHE	186	37.626	43.242	50.945	1.00	0.00	C
ATOM	2885	HD1	PHE	186	37.097	43.961	51.546	1.00	0.00	H
ATOM	2886	CE1	PHE	186	37.128	41.953	50.921	1.00	0.00	C
ATOM	2887	HE1	PHE	186	36.243	41.701	51.483	1.00	0.00	H
ATOM	2888	CZ	PHE	186	37.756	40.984	50.168	1.00	0.00	C
ATOM	2889	HZ	PHE	186	37.363	39.978	50.145	1.00	0.00	H
ATOM	2890	CE2	PHE	186	38.884	41.304	49.439	1.00	0.00	C
ATOM	2891	HE2	PHE	186	39.384	40.547	48.855	1.00	0.00	H
ATOM	2892	CD2	PHE	186	39.381	42.593	49.466	1.00	0.00	C
ATOM	2893	HD2	PHE	186	40.262	42.834	48.889	1.00	0.00	H
ATOM	2894	C	PHE	186	39.793	45.039	52.702	1.00	0.00	C
ATOM	2895	O	PHE	186	39.153	44.303	53.531	1.00	0.00	O
ATOM	2896	N	LEU	187	41.074	45.280	52.798	1.00	0.00	N
ATOM	2897	H	LEU	187	41.530	45.890	52.133	1.00	0.00	H
ATOM	2898	CA	LEU	187	41.856	44.731	53.882	1.00	0.00	C
ATOM	2899	HA	LEU	187	41.568	43.690	54.030	1.00	0.00	H
ATOM	2900	CB	LEU	187	43.343	44.767	53.510	1.00	0.00	C
ATOM	2901	HB2	LEU	187	43.568	45.699	52.986	1.00	0.00	H
ATOM	2902	HB3	LEU	187	43.917	44.788	54.438	1.00	0.00	H
ATOM	2903	CG	LEU	187	43.855	43.571	52.697	1.00	0.00	C
ATOM	2904	HG	LEU	187	43.588	42.649	53.206	1.00	0.00	H
ATOM	2905	CD1	LEU	187	43.177	43.556	51.334	1.00	0.00	C
ATOM	2906	HD11	LEU	187	43.568	42.718	50.756	1.00	0.00	H
ATOM	2907	HD12	LEU	187	42.101	43.419	51.414	1.00	0.00	H
ATOM	2908	HD13	LEU	187	43.423	44.464	50.807	1.00	0.00	H

ATOM	2909	CD	LEU	187	45.367	43.662	52.555	1.00	0.00	C
ATOM	2910	HD21	LEU	187	45.734	42.785	52.021	1.00	0.00	H
ATOM	2911	HD22	LEU	187	45.636	44.567	52.011	1.00	0.00	H
ATOM	2912	HD23	LEU	187	45.838	43.693	53.538	1.00	0.00	H
ATOM	2913	C	LEU	187	41.609	45.509	55.210	1.00	0.00	C
ATOM	2914	O	LEU	187	41.160	46.667	55.146	1.00	0.00	O
ATOM	2915	N	PRO	188	41.770	44.821	56.364	1.00	0.00	N
ATOM	2916	CD	PRO	188	42.220	43.413	56.554	1.00	0.00	C
ATOM	2917	HD2	PRO	188	43.152	43.225	56.022	1.00	0.00	H
ATOM	2918	HD3	PRO	188	41.443	42.729	56.223	1.00	0.00	H
ATOM	2919	CG	PRO	188	42.438	43.280	58.038	1.00	0.00	C
ATOM	2920	HG2	PRO	188	43.456	43.565	58.298	1.00	0.00	H
ATOM	2921	HG3	PRO	188	42.237	42.259	58.355	1.00	0.00	H
ATOM	2922	CB	PRO	188	41.475	44.244	58.642	1.00	0.00	C
ATOM	2923	HB2	PRO	188	41.769	44.524	59.654	1.00	0.00	H
ATOM	2924	HB3	PRO	188	40.478	43.802	58.653	1.00	0.00	H
ATOM	2925	CA	PRO	188	41.488	45.439	57.683	1.00	0.00	C
ATOM	2926	HA	PRO	188	40.521	45.943	57.688	1.00	0.00	H
ATOM	2927	C	PRO	188	42.637	46.455	58.010	1.00	0.00	C
ATOM	2928	O	PRO	188	43.814	46.464	57.552	1.00	0.00	O
ATOM	2929	N	GLN	189	42.368	47.310	59.015	1.00	0.00	N
ATOM	2930	H	GLN	189	41.438	47.274	59.406	1.00	0.00	H
ATOM	2931	CA	GLN	189	43.290	48.293	59.649	1.00	0.00	C
ATOM	2932	HA	GLN	189	44.273	48.233	59.181	1.00	0.00	H
ATOM	2933	CB	GLN	189	42.766	49.720	59.464	1.00	0.00	C
ATOM	2934	HB2	GLN	189	41.764	49.766	59.895	1.00	0.00	H
ATOM	2935	HB3	GLN	189	43.412	50.402	60.019	1.00	0.00	H
ATOM	2936	CG	GLN	189	42.718	50.182	58.018	1.00	0.00	C
ATOM	2937	HG2	GLN	189	43.724	50.146	57.598	1.00	0.00	H
ATOM	2938	HG3	GLN	189	42.077	49.510	57.445	1.00	0.00	H

ATOM	2939	CD	GLN	189	42.166	51.588	57.878	1.00	0.00	C
ATOM	2940	OE1	GLN	189	42.644	52.313	56.873	1.00	0.00	O
ATOM	2941	NE2	GLN	189	41.319	52.019	58.665	1.00	0.00	N
ATOM	2942	HE21	GLN	189	40.998	51.441	59.426	1.00	0.00	H
ATOM	2943	HE22	GLN	189	40.956	52.951	58.533	1.00	0.00	H
ATOM	2944	C	GLN	189	43.467	47.979	61.164	1.00	0.00	C
ATOM	2945	O	GLN	189	42.831	48.512	62.052	1.00	0.00	O
ATOM	2946	N	SER	190	44.230	46.925	61.501	1.00	0.00	N
ATOM	2947	H	SER	190	44.720	46.461	60.749	1.00	0.00	H
ATOM	2948	CA	SER	190	44.442	46.334	62.871	1.00	0.00	C
ATOM	2949	HA	SER	190	43.481	46.320	63.387	1.00	0.00	H
ATOM	2950	CB	SER	190	44.938	44.905	62.763	1.00	0.00	C
ATOM	2951	HB2	SER	190	44.797	44.409	63.723	1.00	0.00	H
ATOM	2952	HB3	SER	190	44.360	44.367	62.011	1.00	0.00	H
ATOM	2953	OG	SER	190	46.297	44.869	62.424	1.00	0.00	O
ATOM	2954	HG	SER	190	46.669	45.751	62.523	1.00	0.00	H
ATOM	2955	C	SER	190	45.429	47.125	63.706	1.00	0.00	C
ATOM	2956	O	SER	190	46.315	47.827	63.162	1.00	0.00	O
ATOM	2957	N	GLY	191	45.531	46.755	64.974	1.00	0.00	N
ATOM	2958	H	GLY	191	44.877	46.096	65.370	1.00	0.00	H
ATOM	2959	CA	GLY	191	46.516	47.375	65.845	1.00	0.00	C
ATOM	2960	HA2	GLY	191	46.626	48.429	65.584	1.00	0.00	H
ATOM	2961	HA3	GLY	191	46.131	47.328	66.863	1.00	0.00	H
ATOM	2962	C	GLY	191	47.884	46.729	65.841	1.00	0.00	C
ATOM	2963	O	GLY	191	48.755	47.321	66.501	1.00	0.00	O
ATOM	2964	N	SER	192	48.181	45.664	65.080	1.00	0.00	N
ATOM	2965	H	SER	192	47.467	45.248	64.500	1.00	0.00	H
ATOM	2966	CA	SER	192	49.499	45.011	65.118	1.00	0.00	C
ATOM	2967	HA	SER	192	50.261	45.792	65.115	1.00	0.00	H
ATOM	2968	CB	SER	192	49.633	44.236	66.414	1.00	0.00	C

ATOM	2969	HB2	SER	192	49.537	44.916	67.261	1.00	0.00	H
ATOM	2970	HB3	SER	192	48.860	43.478	66.485	1.00	0.00	H
ATOM	2971	OG	SER	192	50.878	43.598	66.492	1.00	0.00	O
ATOM	2972	HG	SER	192	50.896	42.866	65.870	1.00	0.00	H
ATOM	2973	C	SER	192	49.805	44.072	63.967	1.00	0.00	C
ATOM	2974	O	SER	192	48.951	43.438	63.383	1.00	0.00	O
ATOM	2975	N	TYR	193	51.159	43.963	63.606	1.00	0.00	N
ATOM	2976	H	TYR	193	51.851	44.480	64.130	1.00	0.00	H
ATOM	2977	CA	TYR	193	51.647	43.126	62.456	1.00	0.00	C
ATOM	2978	HA	TYR	193	50.803	42.603	62.007	1.00	0.00	H
ATOM	2979	CB	TYR	193	52.273	44.012	61.377	1.00	0.00	C
ATOM	2980	HB2	TYR	193	53.017	44.662	61.834	1.00	0.00	H
ATOM	2981	HB3	TYR	193	52.785	43.376	60.654	1.00	0.00	H
ATOM	2982	CG	TYR	193	51.272	44.871	60.636	1.00	0.00	C
ATOM	2983	CD1	TYR	193	50.737	45.995	61.247	1.00	0.00	C
ATOM	2984	HD1	TYR	193	51.032	46.272	62.249	1.00	0.00	H
ATOM	2985	CE1	TYR	193	49.823	46.780	60.571	1.00	0.00	C
ATOM	2986	HE1	TYR	193	49.415	47.664	61.040	1.00	0.00	H
ATOM	2987	CZ	TYR	193	49.444	46.438	59.278	1.00	0.00	C
ATOM	2988	OH	TYR	193	48.534	47.220	58.604	1.00	0.00	O
ATOM	2989	HH	TYR	193	48.528	47.031	57.661	1.00	0.00	H
ATOM	2990	CE2	TYR	193	49.976	45.319	58.670	1.00	0.00	C
ATOM	2991	HE2	TYR	193	49.676	45.050	57.669	1.00	0.00	H
ATOM	2992	CD2	TYR	193	50.890	44.535	59.346	1.00	0.00	C
ATOM	2993	HD2	TYR	193	51.302	43.662	58.866	1.00	0.00	H
ATOM	2994	C	TYR	193	52.677	42.045	62.935	1.00	0.00	C
ATOM	2995	O	TYR	193	53.453	42.251	63.878	1.00	0.00	O
ATOM	2996	N	PHE	194	52.714	40.924	62.243	1.00	0.00	N
ATOM	2997	H	PHE	194	52.026	40.796	61.513	1.00	0.00	H
ATOM	2998	CA	PHE	194	53.791	39.844	62.349	1.00	0.00	C

ATOM	2999	HA	PHE	194	54.741	40.336	62.556	1.00	0.00	H
ATOM	3000	CB	PHE	194	53.480	38.912	63.521	1.00	0.00	C
ATOM	3001	HB2	PHE	194	54.125	38.033	63.486	1.00	0.00	H
ATOM	3002	HB3	PHE	194	53.722	39.437	64.443	1.00	0.00	H
ATOM	3003	CG	PHE	194	52.044	38.477	63.585	1.00	0.00	C
ATOM	3004	CD1	PHE	194	51.616	37.345	62.908	1.00	0.00	C
ATOM	3005	HD1	PHE	194	52.305	36.805	62.287	1.00	0.00	H
ATOM	3006	CE1	PHE	194	50.294	36.944	62.966	1.00	0.00	C
ATOM	3007	HE1	PHE	194	49.975	36.061	62.432	1.00	0.00	H
ATOM	3008	CZ	PHE	194	49.384	37.672	63.704	1.00	0.00	C
ATOM	3009	HZ	PHE	194	48.354	37.355	63.766	1.00	0.00	H
ATOM	3010	CE2	PHE	194	49.796	38.801	64.383	1.00	0.00	C
ATOM	3011	HE2	PHE	194	49.100	39.358	64.979	1.00	0.00	H
ATOM	3012	CD2	PHE	194	51.117	39.200	64.322	1.00	0.00	C
ATOM	3013	HD2	PHE	194	51.431	40.073	64.875	1.00	0.00	H
ATOM	3014	C	PHE	194	53.996	38.966	61.096	1.00	0.00	C
ATOM	3015	O	PHE	194	53.065	38.750	60.302	1.00	0.00	O
ATOM	3016	N	ALA	195	55.209	38.370	60.930	1.00	0.00	N
ATOM	3017	H	ALA	195	55.900	38.504	61.657	1.00	0.00	H
ATOM	3018	CA	ALA	195	55.680	37.778	59.722	1.00	0.00	C
ATOM	3019	HA	ALA	195	54.816	37.387	59.190	1.00	0.00	H
ATOM	3020	CB	ALA	195	56.313	38.875	58.876	1.00	0.00	C
ATOM	3021	HB1	ALA	195	56.803	38.412	58.030	1.00	0.00	H
ATOM	3022	HB2	ALA	195	55.536	39.531	58.508	1.00	0.00	H
ATOM	3023	HB3	ALA	195	57.039	39.432	59.464	1.00	0.00	H
ATOM	3024	C	ALA	195	56.691	36.589	59.888	1.00	0.00	C
ATOM	3025	O	ALA	195	57.239	36.279	60.934	1.00	0.00	O
ATOM	3026	N	TYR	196	56.812	35.818	58.813	1.00	0.00	N
ATOM	3027	H	TYR	196	56.260	36.043	57.996	1.00	0.00	H
ATOM	3028	CA	TYR	196	57.921	34.866	58.622	1.00	0.00	C

ATOM	3029	HA	TYR	196	58.733	35.145	59.295	1.00	0.00	H
ATOM	3030	CB	TYR	196	57.472	33.453	59.003	1.00	0.00	C
ATOM	3031	HB2	TYR	196	58.355	32.826	59.139	1.00	0.00	H
ATOM	3032	HB3	TYR	196	56.952	33.498	59.958	1.00	0.00	H
ATOM	3033	CG	TYR	196	56.561	32.807	57.983	1.00	0.00	C
ATOM	3034	CD1	TYR	196	57.093	31.992	56.995	1.00	0.00	C
ATOM	3035	HD1	TYR	196	58.157	31.818	56.948	1.00	0.00	H
ATOM	3036	CE1	TYR	196	56.261	31.401	56.064	1.00	0.00	C
ATOM	3037	HE1	TYR	196	56.672	30.757	55.300	1.00	0.00	H
ATOM	3038	CZ	TYR	196	54.891	31.627	56.123	1.00	0.00	C
ATOM	3039	OH	TYR	196	54.062	31.038	55.195	1.00	0.00	O
ATOM	3040	HH	TYR	196	54.539	30.556	54.511	1.00	0.00	H
ATOM	3041	CE2	TYR	196	54.361	32.438	57.106	1.00	0.00	C
ATOM	3042	HE2	TYR	196	53.303	32.638	57.139	1.00	0.00	H
ATOM	3043	CD2	TYR	196	55.193	33.028	58.037	1.00	0.00	C
ATOM	3044	HD2	TYR	196	54.776	33.629	58.817	1.00	0.00	H
ATOM	3045	C	TYR	196	58.489	34.834	57.230	1.00	0.00	C
ATOM	3046	O	TYR	196	57.884	35.311	56.300	1.00	0.00	O
ATOM	3047	N	ASN	197	59.798	34.332	57.038	1.00	0.00	N
ATOM	3048	H	ASN	197	60.301	33.989	57.844	1.00	0.00	H
ATOM	3049	CA	ASN	197	60.444	34.107	55.726	1.00	0.00	C
ATOM	3050	HA	ASN	197	59.902	34.666	54.964	1.00	0.00	H
ATOM	3051	CB	ASN	197	61.884	34.587	55.738	1.00	0.00	C
ATOM	3052	HB2	ASN	197	62.454	34.011	56.469	1.00	0.00	H
ATOM	3053	HB3	ASN	197	62.317	34.418	54.751	1.00	0.00	H
ATOM	3054	CG	ASN	197	62.002	36.051	56.060	1.00	0.00	C
ATOM	3055	OD1	ASN	197	62.996	36.399	56.837	1.00	0.00	O
ATOM	3056	ND2	ASN	197	61.193	36.867	55.604	1.00	0.00	N
ATOM	3057	HD21	ASN	197	61.314	37.846	55.810	1.00	0.00	H
ATOM	3058	HD22	ASN	197	60.432	36.553	55.023	1.00	0.00	H

ATOM	3059	C	ASN	197	60.363	32.609	55.356	1.00	0.00	C
ATOM	3060	O	ASN	197	60.782	31.826	56.187	1.00	0.00	O
ATOM	3061	N	GLY	198	59.918	32.276	54.163	1.00	0.00	N
ATOM	3062	H	GLY	198	59.609	33.017	53.548	1.00	0.00	H
ATOM	3063	CA	GLY	198	59.795	30.937	53.649	1.00	0.00	C
ATOM	3064	HA2	GLY	198	60.735	30.415	53.798	1.00	0.00	H
ATOM	3065	HA3	GLY	198	59.064	30.421	54.272	1.00	0.00	H
ATOM	3066	C	GLY	198	59.340	30.728	52.134	1.00	0.00	C
ATOM	3067	O	GLY	198	59.507	31.618	51.337	1.00	0.00	O
ATOM	3068	N	SER	199	58.966	29.486	51.743	1.00	0.00	N
ATOM	3069	H	SER	199	58.933	28.771	52.456	1.00	0.00	H
ATOM	3070	CA	SER	199	58.547	29.051	50.401	1.00	0.00	C
ATOM	3071	HA	SER	199	59.219	29.478	49.673	1.00	0.00	H
ATOM	3072	CB	SER	199	58.661	27.542	50.315	1.00	0.00	C
ATOM	3073	HB2	SER	199	58.388	27.218	49.310	1.00	0.00	H
ATOM	3074	HB3	SER	199	59.688	27.235	50.511	1.00	0.00	H
ATOM	3075	OG	SER	199	57.813	26.921	51.242	1.00	0.00	O
ATOM	3076	HG	SER	199	58.246	26.949	52.102	1.00	0.00	H
ATOM	3077	C	SER	199	57.100	29.487	50.014	1.00	0.00	C
ATOM	3078	O	SER	199	56.267	29.810	50.850	1.00	0.00	O
ATOM	3079	N	LEU	200	56.816	29.519	48.735	1.00	0.00	N
ATOM	3080	H	LEU	200	57.533	29.286	48.062	1.00	0.00	H
ATOM	3081	CA	LEU	200	55.426	29.828	48.221	1.00	0.00	C
ATOM	3082	HA	LEU	200	55.053	30.738	48.687	1.00	0.00	H
ATOM	3083	CB	LEU	200	55.380	29.964	46.694	1.00	0.00	C
ATOM	3084	HB2	LEU	200	55.850	29.093	46.256	1.00	0.00	H
ATOM	3085	HB3	LEU	200	54.337	29.962	46.373	1.00	0.00	H
ATOM	3086	CG	LEU	200	56.070	31.206	46.116	1.00	0.00	C
ATOM	3087	HG	LEU	200	57.069	31.297	46.542	1.00	0.00	H
ATOM	3088	CD1	LEU	200	56.209	31.054	44.607	1.00	0.00	C

ATOM	3089	HD11	LEU	200	56.702	31.934	44.194	1.00	0.00	H
ATOM	3090	HD12	LEU	200	56.813	30.176	44.374	1.00	0.00	H
ATOM	3091	HD13	LEU	200	55.226	30.945	44.146	1.00	0.00	H
ATOM	3092	CD2	LEU	200	55.264	32.446	46.468	1.00	0.00	C
ATOM	3093	HD21	LEU	200	55.761	33.326	46.057	1.00	0.00	H
ATOM	3094	HD22	LEU	200	54.264	32.380	46.035	1.00	0.00	H
ATOM	3095	HD23	LEU	200	55.176	32.572	47.546	1.00	0.00	H
ATOM	3096	C	LEU	200	54.567	28.646	48.688	1.00	0.00	C
ATOM	3097	O	LEU	200	54.986	27.466	48.750	1.00	0.00	O
ATOM	3098	N	THR	201	53.302	28.890	49.031	1.00	0.00	N
ATOM	3099	H	THR	201	52.952	29.836	48.970	1.00	0.00	H
ATOM	3100	CA	THR	201	52.374	27.886	49.467	1.00	0.00	C
ATOM	3101	HA	THR	201	52.864	27.298	50.245	1.00	0.00	H
ATOM	3102	CB	THR	201	51.190	28.660	50.158	1.00	0.00	C
ATOM	3103	HB	THR	201	50.526	27.894	50.560	1.00	0.00	H
ATOM	3104	CG2	THR	201	51.522	29.579	51.333	1.00	0.00	C
ATOM	3105	HG21	THR	201	51.841	28.982	52.181	1.00	0.00	H
ATOM	3106	HG22	THR	201	52.322	30.267	51.068	1.00	0.00	H
ATOM	3107	HG23	THR	201	50.639	30.156	51.611	1.00	0.00	H
ATOM	3108	OG1	THR	201	50.410	29.382	49.228	1.00	0.00	O
ATOM	3109	HG1	THR	201	49.521	29.474	49.598	1.00	0.00	H
ATOM	3110	C	THR	201	51.842	26.917	48.457	1.00	0.00	C
ATOM	3111	O	THR	201	51.386	25.847	48.824	1.00	0.00	O
ATOM	3112	N	THR	202	51.920	27.277	47.198	1.00	0.00	N
ATOM	3113	H	THR	202	52.279	28.203	47.015	1.00	0.00	H
ATOM	3114	CA	THR	202	51.585	26.493	45.984	1.00	0.00	C
ATOM	3115	HA	THR	202	51.425	25.458	46.280	1.00	0.00	H
ATOM	3116	CB	THR	202	50.286	27.010	45.338	1.00	0.00	C
ATOM	3117	HB	THR	202	49.961	26.330	44.554	1.00	0.00	H
ATOM	3118	CG2	THR	202	49.176	27.103	46.374	1.00	0.00	C

ATOM	3119	HG21	THR	202	48.252	27.293	45.832	1.00	0.00	H
ATOM	3120	HG22	THR	202	49.082	26.170	46.928	1.00	0.00	H
ATOM	3121	HG23	THR	202	49.347	27.928	47.066	1.00	0.00	H
ATOM	3122	OG1	THR	202	50.514	28.306	44.770	1.00	0.00	O
ATOM	3123	HG1	THR	202	51.093	28.216	44.009	1.00	0.00	H
ATOM	3124	C	THR	202	52.730	26.528	44.939	1.00	0.00	C
ATOM	3125	O	THR	202	53.724	27.240	45.067	1.00	0.00	O
ATOM	3126	N	PRO	203	52.790	25.628	43.928	1.00	0.00	N
ATOM	3127	CD	PRO	203	51.749	24.610	43.660	1.00	0.00	C
ATOM	3128	HD2	PRO	203	50.900	25.067	43.151	1.00	0.00	H
ATOM	3129	HD3	PRO	203	51.437	24.095	44.565	1.00	0.00	H
ATOM	3130	CG	PRO	203	52.446	23.663	42.720	1.00	0.00	C
ATOM	3131	HG2	PRO	203	51.733	23.107	42.117	1.00	0.00	H
ATOM	3132	HG3	PRO	203	53.061	22.971	43.296	1.00	0.00	H
ATOM	3133	CB	PRO	203	53.320	24.540	41.890	1.00	0.00	C
ATOM	3134	HB2	PRO	203	52.716	25.023	41.119	1.00	0.00	H
ATOM	3135	HB3	PRO	203	54.133	23.971	41.440	1.00	0.00	H
ATOM	3136	CA	PRO	203	53.863	25.575	42.880	1.00	0.00	C
ATOM	3137	HA	PRO	203	54.724	25.124	43.349	1.00	0.00	H
ATOM	3138	C	PRO	203	54.154	26.843	42.163	1.00	0.00	C
ATOM	3139	O	PRO	203	53.213	27.646	41.971	1.00	0.00	O
ATOM	3140	N	PRO	204	55.411	27.166	41.855	1.00	0.00	N
ATOM	3141	CD	PRO	204	55.822	28.434	41.201	1.00	0.00	C
ATOM	3142	HD2	PRO	204	55.487	29.302	41.770	1.00	0.00	H
ATOM	3143	HD3	PRO	204	55.431	28.464	40.183	1.00	0.00	H
ATOM	3144	CG	PRO	204	57.351	28.358	41.178	1.00	0.00	C
ATOM	3145	HG2	PRO	204	57.749	28.761	42.110	1.00	0.00	H
ATOM	3146	HG3	PRO	204	57.771	28.880	40.318	1.00	0.00	H
ATOM	3147	CB	PRO	204	57.592	26.868	41.109	1.00	0.00	C
ATOM	3148	HB2	PRO	204	58.594	26.586	41.425	1.00	0.00	H

ATOM	3149	HB3	PRO	204	57.444	26.538	40.079	1.00	0.00	H
ATOM	3150	CA	PRO	204	56.519	26.282	41.960	1.00	0.00	C
ATOM	3151	HA	PRO	204	56.236	25.336	41.496	1.00	0.00	H
ATOM	3152	C	PRO	204	56.953	25.932	43.418	1.00	0.00	C
ATOM	3153	O	PRO	204	57.938	25.268	43.566	1.00	0.00	O
ATOM	3154	N	CYS	205	56.400	26.513	44.498	1.00	0.00	N
ATOM	3155	H	CYS	205	55.586	27.094	44.353	1.00	0.00	H
ATOM	3156	CA	CYS	205	56.898	26.460	45.829	1.00	0.00	C
ATOM	3157	HA	CYS	205	56.355	27.165	46.446	1.00	0.00	H
ATOM	3158	CB	CYS	205	56.642	25.070	46.412	1.00	0.00	C
ATOM	3159	HB2	CYS	205	57.161	24.318	45.818	1.00	0.00	H
ATOM	3160	HB3	CYS	205	57.047	25.035	47.424	1.00	0.00	H
ATOM	3161	SG	CYS	205	54.892	24.623	46.512	1.00	0.00	S
ATOM	3162	HG	CYS	205	54.553	25.595	47.358	1.00	0.00	H
ATOM	3163	C	CYS	205	58.396	26.788	45.918	1.00	0.00	C
ATOM	3164	O	CYS	205	59.180	26.060	46.468	1.00	0.00	O
ATOM	3165	N	THR	206	58.880	27.874	45.353	1.00	0.00	N
ATOM	3166	H	THR	206	58.248	28.461	44.829	1.00	0.00	H
ATOM	3167	CA	THR	206	60.184	28.383	45.556	1.00	0.00	C
ATOM	3168	HA	THR	206	60.874	27.558	45.738	1.00	0.00	H
ATOM	3169	CB	THR	206	60.661	29.077	44.267	1.00	0.00	C
ATOM	3170	HB	THR	206	61.674	29.455	44.411	1.00	0.00	H
ATOM	3171	CG2	THR	206	60.662	28.099	43.103	1.00	0.00	C
ATOM	3172	HG21	THR	206	59.668	27.698	42.940	1.00	0.00	H
ATOM	3173	HG22	THR	206	60.995	28.606	42.197	1.00	0.00	H
ATOM	3174	HG23	THR	206	61.345	27.276	43.317	1.00	0.00	H
ATOM	3175	OG1	THR	206	59.791	30.176	43.962	1.00	0.00	O
ATOM	3176	HG1	THR	206	59.895	30.844	44.645	1.00	0.00	H
ATOM	3177	C	THR	206	60.293	29.357	46.763	1.00	0.00	C
ATOM	3178	O	THR	206	59.321	29.871	47.262	1.00	0.00	O

ATOM	3179	N	GLU	207	61.511	29.493	47.287	1.00	0.00	N
ATOM	3180	H	GLU	207	62.282	29.024	46.835	1.00	0.00	H
ATOM	3181	CA	GLU	207	61.817	30.164	48.516	1.00	0.00	C
ATOM	3182	HA	GLU	207	60.964	30.131	49.180	1.00	0.00	H
ATOM	3183	CB	GLU	207	62.951	29.403	49.206	1.00	0.00	C
ATOM	3184	HB2	GLU	207	63.812	29.408	48.535	1.00	0.00	H
ATOM	3185	HB3	GLU	207	63.228	29.928	50.121	1.00	0.00	H
ATOM	3186	CG	GLU	207	62.611	27.967	49.578	1.00	0.00	C
ATOM	3187	HG2	GLU	207	61.817	27.985	50.325	1.00	0.00	H
ATOM	3188	HG3	GLU	207	62.247	27.429	48.702	1.00	0.00	H
ATOM	3189	CD	GLU	207	63.787	27.211	50.128	1.00	0.00	C
ATOM	3190	OE1	GLU	207	64.882	27.714	50.051	1.00	0.00	O
ATOM	3191	OE2	GLU	207	63.591	26.127	50.627	1.00	0.00	O
ATOM	3192	C	GLU	207	62.199	31.680	48.359	1.00	0.00	C
ATOM	3193	O	GLU	207	62.376	32.196	47.293	1.00	0.00	O
ATOM	3194	N	GLY	208	62.302	32.429	49.435	1.00	0.00	N
ATOM	3195	H	GLY	208	62.133	31.952	50.308	1.00	0.00	H
ATOM	3196	CA	GLY	208	62.623	33.812	49.589	1.00	0.00	C
ATOM	3197	HA2	GLY	208	63.162	33.926	50.529	1.00	0.00	H
ATOM	3198	HA3	GLY	208	63.287	34.122	48.780	1.00	0.00	H
ATOM	3199	C	GLY	208	61.419	34.724	49.622	1.00	0.00	C
ATOM	3200	O	GLY	208	61.443	35.705	48.915	1.00	0.00	O
ATOM	3201	N	VAL	209	60.349	34.317	50.258	1.00	0.00	N
ATOM	3202	H	VAL	209	60.355	33.438	50.757	1.00	0.00	H
ATOM	3203	CA	VAL	209	59.079	35.138	50.267	1.00	0.00	C
ATOM	3204	HA	VAL	209	59.187	36.015	49.631	1.00	0.00	H
ATOM	3205	CB	VAL	209	57.872	34.323	49.767	1.00	0.00	C
ATOM	3206	HB	VAL	209	57.718	33.469	50.423	1.00	0.00	H
ATOM	3207	CG1	VAL	209	56.613	35.178	49.773	1.00	0.00	C
ATOM	3208	HG11	VAL	209	55.789	34.608	49.344	1.00	0.00	H

ATOM	3209	HG12	VAL	209	56.336	35.443	50.793	1.00	0.00	H
ATOM	3210	HG13	VAL	209	56.766	36.086	49.189	1.00	0.00	H
ATOM	3211	CG2	VAL	209	58.152	33.787	48.371	1.00	0.00	C
ATOM	3212	HG21	VAL	209	58.360	34.602	47.680	1.00	0.00	H
ATOM	3213	HG22	VAL	209	59.001	33.103	48.385	1.00	0.00	H
ATOM	3214	HG23	VAL	209	57.293	33.227	48.023	1.00	0.00	H
ATOM	3215	C	VAL	209	58.843	35.600	51.742	1.00	0.00	C
ATOM	3216	O	VAL	209	58.941	34.723	52.586	1.00	0.00	O
ATOM	3217	N	LEU	210	58.556	36.863	51.957	1.00	0.00	N
ATOM	3218	H	LEU	210	58.476	37.491	51.178	1.00	0.00	H
ATOM	3219	CA	LEU	210	58.169	37.358	53.243	1.00	0.00	C
ATOM	3220	HA	LEU	210	58.540	36.695	54.025	1.00	0.00	H
ATOM	3221	CB	LEU	210	58.740	38.762	53.477	1.00	0.00	C
ATOM	3222	HB2	LEU	210	59.826	38.692	53.560	1.00	0.00	H
ATOM	3223	HB3	LEU	210	58.520	39.359	52.590	1.00	0.00	H
ATOM	3224	CG	LEU	210	58.179	39.515	54.691	1.00	0.00	C
ATOM	3225	HG	LEU	210	57.093	39.542	54.637	1.00	0.00	H
ATOM	3226	CD1	LEU	210	58.593	38.798	55.969	1.00	0.00	C
ATOM	3227	HD11	LEU	210	58.130	39.356	56.771	1.00	0.00	H
ATOM	3228	HD12	LEU	210	58.225	37.777	55.990	1.00	0.00	H
ATOM	3229	HD13	LEU	210	59.671	38.838	56.089	1.00	0.00	H
ATOM	3230	CD2	LEU	210	58.687	40.949	54.679	1.00	0.00	C
ATOM	3231	HD21	LEU	210	58.306	41.486	55.549	1.00	0.00	H
ATOM	3232	HD22	LEU	210	59.777	40.962	54.696	1.00	0.00	H
ATOM	3233	HD23	LEU	210	58.342	41.458	53.779	1.00	0.00	H
ATOM	3234	C	LEU	210	56.605	37.355	53.263	1.00	0.00	C
ATOM	3235	O	LEU	210	55.992	37.844	52.340	1.00	0.00	O
ATOM	3236	N	PHE	211	56.031	36.769	54.316	1.00	0.00	N
ATOM	3237	H	PHE	211	56.629	36.379	55.031	1.00	0.00	H
ATOM	3238	CA	PHE	211	54.571	36.634	54.537	1.00	0.00	C

ATOM	3239	HA	PHE	211	54.026	36.991	53.663	1.00	0.00	H
ATOM	3240	CB	PHE	211	54.167	35.182	54.799	1.00	0.00	C
ATOM	3241	HB2	PHE	211	54.740	34.809	55.648	1.00	0.00	H
ATOM	3242	HB3	PHE	211	53.114	35.153	55.079	1.00	0.00	H
ATOM	3243	CG	PHE	211	54.387	34.271	53.625	1.00	0.00	C
ATOM	3244	CD1	PHE	211	55.615	33.657	53.426	1.00	0.00	C
ATOM	3245	HD1	PHE	211	56.420	33.820	54.128	1.00	0.00	H
ATOM	3246	CE1	PHE	211	55.818	32.818	52.346	1.00	0.00	C
ATOM	3247	HE1	PHE	211	56.784	32.361	52.194	1.00	0.00	H
ATOM	3248	CZ	PHE	211	54.795	32.584	51.453	1.00	0.00	C
ATOM	3249	HZ	PHE	211	54.949	31.940	50.603	1.00	0.00	H
ATOM	3250	CE2	PHE	211	53.568	33.188	51.638	1.00	0.00	C
ATOM	3251	HE2	PHE	211	52.760	32.998	50.945	1.00	0.00	H
ATOM	3252	CD2	PHE	211	53.368	34.026	52.718	1.00	0.00	C
ATOM	3253	HD2	PHE	211	52.413	34.516	52.833	1.00	0.00	H
ATOM	3254	C	PHE	211	54.228	37.528	55.752	1.00	0.00	C
ATOM	3255	O	PHE	211	54.836	37.349	56.828	1.00	0.00	O
ATOM	3256	N	VAL	212	53.347	38.491	55.614	1.00	0.00	N
ATOM	3257	H	VAL	212	52.875	38.609	54.727	1.00	0.00	H
ATOM	3258	CA	VAL	212	53.058	39.469	56.689	1.00	0.00	C
ATOM	3259	HA	VAL	212	53.595	39.220	57.602	1.00	0.00	H
ATOM	3260	CB	VAL	212	53.394	40.915	56.279	1.00	0.00	C
ATOM	3261	HB	VAL	212	52.783	41.189	55.419	1.00	0.00	H
ATOM	3262	CG1	VAL	212	53.088	41.876	57.418	1.00	0.00	C
ATOM	3263	HG11	VAL	212	53.446	42.878	57.181	1.00	0.00	H
ATOM	3264	HG12	VAL	212	52.011	41.920	57.573	1.00	0.00	H
ATOM	3265	HG13	VAL	212	53.558	41.534	58.337	1.00	0.00	H
ATOM	3266	CG2	VAL	212	54.856	41.011	55.870	1.00	0.00	C
ATOM	3267	HG21	VAL	212	55.504	40.565	56.617	1.00	0.00	H
ATOM	3268	HG22	VAL	212	55.001	40.497	54.920	1.00	0.00	H

ATOM	3269	HG23	VAL	212	55.142	42.054	55.735	1.00	0.00	H
ATOM	3270	C	VAL	212	51.539	39.285	56.919	1.00	0.00	C
ATOM	3271	O	VAL	212	50.687	39.166	56.045	1.00	0.00	O
ATOM	3272	N	VAL	213	51.264	39.154	58.218	1.00	0.00	N
ATOM	3273	H	VAL	213	52.015	39.221	58.887	1.00	0.00	H
ATOM	3274	CA	VAL	213	49.941	39.003	58.730	1.00	0.00	C
ATOM	3275	HA	VAL	213	49.252	38.854	57.901	1.00	0.00	H
ATOM	3276	CB	VAL	213	49.858	37.742	59.611	1.00	0.00	C
ATOM	3277	HB	VAL	213	50.602	37.813	60.401	1.00	0.00	H
ATOM	3278	CG1	VAL	213	48.483	37.631	60.253	1.00	0.00	C
ATOM	3279	HG11	VAL	213	48.398	36.656	60.724	1.00	0.00	H
ATOM	3280	HG12	VAL	213	48.347	38.384	61.028	1.00	0.00	H
ATOM	3281	HG13	VAL	213	47.700	37.723	59.499	1.00	0.00	H
ATOM	3282	CG2	VAL	213	50.166	36.507	58.778	1.00	0.00	C
ATOM	3283	HG21	VAL	213	50.123	35.631	59.422	1.00	0.00	H
ATOM	3284	HG22	VAL	213	49.403	36.383	58.017	1.00	0.00	H
ATOM	3285	HG23	VAL	213	51.156	36.563	58.326	1.00	0.00	H
ATOM	3286	C	VAL	213	49.476	40.137	59.517	1.00	0.00	C
ATOM	3287	O	VAL	213	50.132	40.720	60.367	1.00	0.00	O
ATOM	3288	N	LEU	214	48.229	40.525	59.211	1.00	0.00	N
ATOM	3289	H	LEU	214	47.733	40.027	58.486	1.00	0.00	H
ATOM	3290	CA	LEU	214	47.481	41.615	59.928	1.00	0.00	C
ATOM	3291	HA	LEU	214	48.181	42.337	60.353	1.00	0.00	H
ATOM	3292	CB	LEU	214	46.517	42.354	58.993	1.00	0.00	C
ATOM	3293	HB2	LEU	214	45.937	41.621	58.429	1.00	0.00	H
ATOM	3294	HB3	LEU	214	45.816	42.906	59.621	1.00	0.00	H
ATOM	3295	CG	LEU	214	47.162	43.363	58.033	1.00	0.00	C
ATOM	3296	HG	LEU	214	47.692	44.108	58.619	1.00	0.00	H
ATOM	3297	CD1	LEU	214	48.134	42.638	57.112	1.00	0.00	C
ATOM	3298	HD11	LEU	214	48.407	43.291	56.283	1.00	0.00	H

ATOM	3299	HD12	LEU	214	49.054	42.398	57.644	1.00	0.00	H
ATOM	3300	HD13	LEU	214	47.688	41.731	56.705	1.00	0.00	H
ATOM	3301	CD2	LEU	214	46.078	44.071	57.236	1.00	0.00	C
ATOM	3302	HD21	LEU	214	46.527	44.779	56.540	1.00	0.00	H
ATOM	3303	HD22	LEU	214	45.477	43.354	56.681	1.00	0.00	H
ATOM	3304	HD23	LEU	214	45.445	44.623	57.926	1.00	0.00	H
ATOM	3305	C	LEU	214	46.705	40.921	61.085	1.00	0.00	C
ATOM	3306	O	LEU	214	45.940	39.994	60.940	1.00	0.00	O
ATOM	3307	N	THR	215	46.892	41.270	62.305	1.00	0.00	N
ATOM	3308	H	THR	215	47.529	42.036	62.478	1.00	0.00	H
ATOM	3309	CA	THR	215	46.381	40.586	63.483	1.00	0.00	C
ATOM	3310	HA	THR	215	46.666	39.537	63.392	1.00	0.00	H
ATOM	3311	CB	THR	215	47.060	41.143	64.748	1.00	0.00	C
ATOM	3312	HB	THR	215	48.124	41.284	64.560	1.00	0.00	H
ATOM	3313	CG2	THR	215	46.443	42.476	65.142	1.00	0.00	C
ATOM	3314	HG21	THR	215	46.958	42.848	66.022	1.00	0.00	H
ATOM	3315	HG22	THR	215	46.586	43.191	64.342	1.00	0.00	H
ATOM	3316	HG23	THR	215	45.391	42.440	65.410	1.00	0.00	H
ATOM	3317	OG1	THR	215	46.904	40.211	65.826	1.00	0.00	O
ATOM	3318	HG1	THR	215	45.961	40.077	65.963	1.00	0.00	H
ATOM	3319	C	THR	215	44.906	40.632	63.702	1.00	0.00	C
ATOM	3320	O	THR	215	44.445	40.346	64.867	1.00	0.00	O
ATOM	3321	N	SER	216	44.077	40.855	62.685	1.00	0.00	N
ATOM	3322	H	SER	216	44.434	41.011	61.753	1.00	0.00	H
ATOM	3323	CA	SER	216	42.588	40.938	62.925	1.00	0.00	C
ATOM	3324	HA	SER	216	42.300	40.192	63.665	1.00	0.00	H
ATOM	3325	CB	SER	216	42.164	42.307	63.418	1.00	0.00	C
ATOM	3326	HB2	SER	216	42.656	42.513	64.369	1.00	0.00	H
ATOM	3327	HB3	SER	216	42.462	43.068	62.696	1.00	0.00	H
ATOM	3328	OG	SER	216	40.776	42.368	63.602	1.00	0.00	O

ATOM	3329	HG	SER	216	40.343	42.345	62.743	1.00	0.00	H
ATOM	3330	C	SER	216	41.914	40.624	61.593	1.00	0.00	C
ATOM	3331	O	SER	216	42.400	41.266	60.640	1.00	0.00	O
ATOM	3332	N	PRO	217	40.864	39.778	61.454	1.00	0.00	N
ATOM	3333	CD	PRO	217	40.321	38.945	62.537	1.00	0.00	C
ATOM	3334	HD2	PRO	217	40.088	39.534	63.425	1.00	0.00	H
ATOM	3335	HD3	PRO	217	41.020	38.141	62.771	1.00	0.00	H
ATOM	3336	CG	PRO	217	39.064	38.386	61.926	1.00	0.00	C
ATOM	3337	HG2	PRO	217	38.237	39.067	62.127	1.00	0.00	H
ATOM	3338	HG3	PRO	217	38.838	37.392	62.314	1.00	0.00	H
ATOM	3339	CB	PRO	217	39.344	38.358	60.462	1.00	0.00	C
ATOM	3340	HB2	PRO	217	38.435	38.351	59.865	1.00	0.00	H
ATOM	3341	HB3	PRO	217	39.928	37.469	60.236	1.00	0.00	H
ATOM	3342	CA	PRO	217	40.181	39.617	60.215	1.00	0.00	C
ATOM	3343	HA	PRO	217	40.906	39.437	59.424	1.00	0.00	H
ATOM	3344	C	PRO	217	39.318	40.785	59.868	1.00	0.00	C
ATOM	3345	O	PRO	217	39.046	41.762	60.649	1.00	0.00	O
ATOM	3346	N	GLN	218	39.077	40.984	58.583	1.00	0.00	N
ATOM	3347	H	GLN	218	39.437	40.303	57.928	1.00	0.00	H
ATOM	3348	CA	GLN	218	38.079	41.940	58.052	1.00	0.00	C
ATOM	3349	HA	GLN	218	38.205	42.886	58.579	1.00	0.00	H
ATOM	3350	CB	GLN	218	38.340	42.194	56.565	1.00	0.00	C
ATOM	3351	HB2	GLN	218	39.343	42.593	56.442	1.00	0.00	H
ATOM	3352	HB3	GLN	218	38.283	41.245	56.043	1.00	0.00	H
ATOM	3353	CG	GLN	218	37.356	43.151	55.915	1.00	0.00	C
ATOM	3354	HG2	GLN	218	37.554	43.177	54.850	1.00	0.00	H
ATOM	3355	HG3	GLN	218	36.337	42.779	55.989	1.00	0.00	H
ATOM	3356	CD	GLN	218	37.433	44.548	56.502	1.00	0.00	C
ATOM	3357	OE1	GLN	218	36.789	44.849	57.511	1.00	0.00	O
ATOM	3358	NE2	GLN	218	38.223	45.410	55.873	1.00	0.00	N

ATOM	3359	HE21	GLN	218	38.732	45.122	55.052	1.00	0.00	H
ATOM	3360	HE22	GLN	218	38.335	46.348	56.223	1.00	0.00	H
ATOM	3361	C	GLN	218	36.625	41.485	58.236	1.00	0.00	C
ATOM	3362	O	GLN	218	36.333	40.276	58.016	1.00	0.00	O
ATOM	3363	N	ILE	219	35.672	42.385	58.414	1.00	0.00	N
ATOM	3364	H	ILE	219	35.942	43.356	58.488	1.00	0.00	H
ATOM	3365	CA	ILE	219	34.249	42.090	58.564	1.00	0.00	C
ATOM	3366	HA	ILE	219	34.165	41.156	59.121	1.00	0.00	H
ATOM	3367	CB	ILE	219	33.605	43.207	59.406	1.00	0.00	C
ATOM	3368	HB	ILE	219	33.659	44.156	58.868	1.00	0.00	H
ATOM	3369	CG2	ILE	219	32.142	42.891	59.678	1.00	0.00	C
ATOM	3370	HG21	ILE	219	31.767	43.527	60.481	1.00	0.00	H
ATOM	3371	HG22	ILE	219	31.524	43.088	58.806	1.00	0.00	H
ATOM	3372	HG23	ILE	219	32.021	41.849	59.972	1.00	0.00	H
ATOM	3373	CG1	ILE	219	34.370	43.394	60.719	1.00	0.00	C
ATOM	3374	HG12	ILE	219	35.377	43.767	60.531	1.00	0.00	H
ATOM	3375	HG13	ILE	219	33.865	44.162	61.306	1.00	0.00	H
ATOM	3376	CD1	ILE	219	34.454	42.141	61.560	1.00	0.00	C
ATOM	3377	HD11	ILE	219	34.902	42.394	62.521	1.00	0.00	H
ATOM	3378	HD12	ILE	219	33.467	41.720	61.747	1.00	0.00	H
ATOM	3379	HD13	ILE	219	35.092	41.399	61.084	1.00	0.00	H
ATOM	3380	C	ILE	219	33.387	41.903	57.319	1.00	0.00	C
ATOM	3381	O	ILE	219	32.931	42.906	56.781	1.00	0.00	O
ATOM	3382	N	ILE	220	33.207	40.696	56.798	1.00	0.00	N
ATOM	3383	H	ILE	220	33.578	39.868	57.246	1.00	0.00	H
ATOM	3384	CA	ILE	220	32.445	40.569	55.554	1.00	0.00	C
ATOM	3385	HA	ILE	220	32.160	41.533	55.142	1.00	0.00	H
ATOM	3386	CB	ILE	220	33.230	39.802	54.475	1.00	0.00	C
ATOM	3387	HB	ILE	220	33.421	38.795	54.835	1.00	0.00	H
ATOM	3388	CG2	ILE	220	32.424	39.720	53.188	1.00	0.00	C

ATOM	3389	HG21	ILE	220	33.023	39.269	52.397	1.00	0.00	H
ATOM	3390	HG22	ILE	220	31.550	39.099	53.354	1.00	0.00	H
ATOM	3391	HG23	ILE	220	32.102	40.706	52.872	1.00	0.00	H
ATOM	3392	CG1	ILE	220	34.584	40.471	54.221	1.00	0.00	C
ATOM	3393	HG12	ILE	220	35.184	40.460	55.131	1.00	0.00	H
ATOM	3394	HG13	ILE	220	35.127	39.887	53.477	1.00	0.00	H
ATOM	3395	CD1	ILE	220	34.477	41.892	53.719	1.00	0.00	C
ATOM	3396	HD11	ILE	220	35.482	42.295	53.600	1.00	0.00	H
ATOM	3397	HD12	ILE	220	33.984	41.931	52.748	1.00	0.00	H
ATOM	3398	HD13	ILE	220	33.952	42.532	54.423	1.00	0.00	H
ATOM	3399	C	ILE	220	31.139	39.835	55.902	1.00	0.00	C
ATOM	3400	O	ILE	220	31.149	38.916	56.716	1.00	0.00	O
ATOM	3401	N	SER	221	29.959	40.215	55.442	1.00	0.00	N
ATOM	3402	H	SER	221	29.938	41.011	54.824	1.00	0.00	H
ATOM	3403	CA	SER	221	28.678	39.575	55.719	1.00	0.00	C
ATOM	3404	HA	SER	221	28.442	39.734	56.770	1.00	0.00	H
ATOM	3405	CB	SER	221	27.592	40.217	54.878	1.00	0.00	C
ATOM	3406	HB2	SER	221	27.469	41.259	55.173	1.00	0.00	H
ATOM	3407	HB3	SER	221	27.878	40.174	53.827	1.00	0.00	H
ATOM	3408	OG	SER	221	26.371	39.550	55.041	1.00	0.00	O
ATOM	3409	HG	SER	221	25.980	39.831	55.874	1.00	0.00	H
ATOM	3410	C	SER	221	28.752	38.043	55.437	1.00	0.00	C
ATOM	3411	O	SER	221	29.318	37.690	54.424	1.00	0.00	O
ATOM	3412	N	LYS	222	28.233	37.167	56.268	1.00	0.00	N
ATOM	3413	H	LYS	222	27.780	37.536	57.093	1.00	0.00	H
ATOM	3414	CA	LYS	222	28.276	35.664	56.158	1.00	0.00	C
ATOM	3415	HA	LYS	222	29.315	35.353	56.280	1.00	0.00	H
ATOM	3416	CB	LYS	222	27.446	35.004	57.261	1.00	0.00	C
ATOM	3417	HB2	LYS	222	27.825	35.351	58.223	1.00	0.00	H
ATOM	3418	HB3	LYS	222	26.410	35.339	57.179	1.00	0.00	H

ATOM	3419	CG	LYS	222	27.470	33.481	57.239	1.00	0.00	C
ATOM	3420	HG2	LYS	222	26.985	33.113	56.334	1.00	0.00	H
ATOM	3421	HG3	LYS	222	28.507	33.142	57.244	1.00	0.00	H
ATOM	3422	CD	LYS	222	26.751	32.900	58.448	1.00	0.00	C
ATOM	3423	HD2	LYS	222	27.182	33.329	59.354	1.00	0.00	H
ATOM	3424	HD3	LYS	222	25.691	33.155	58.413	1.00	0.00	H
ATOM	3425	CE	LYS	222	26.922	31.390	58.521	1.00	0.00	C
ATOM	3426	HE2	LYS	222	27.980	31.151	58.400	1.00	0.00	H
ATOM	3427	HE3	LYS	222	26.597	31.039	59.501	1.00	0.00	H
ATOM	3428	NZ	LYS	222	26.137	30.689	57.470	1.00	0.00	N
ATOM	3429	HZ1	LYS	222	26.348	31.095	56.569	1.00	0.00	H
ATOM	3430	HZ2	LYS	222	26.405	29.715	57.426	1.00	0.00	H
ATOM	3431	HZ3	LYS	222	25.147	30.767	57.645	1.00	0.00	H
ATOM	3432	C	LYS	222	27.797	35.149	54.860	1.00	0.00	C
ATOM	3433	O	LYS	222	28.483	34.269	54.290	1.00	0.00	O
ATOM	3434	N	THR	223	26.638	35.581	54.342	1.00	0.00	N
ATOM	3435	H	THR	223	26.100	36.266	54.852	1.00	0.00	H
ATOM	3436	CA	THR	223	26.108	35.131	52.992	1.00	0.00	C
ATOM	3437	HA	THR	223	26.001	34.045	53.010	1.00	0.00	H
ATOM	3438	CB	THR	223	24.738	35.757	52.674	1.00	0.00	C
ATOM	3439	HB	THR	223	24.817	36.844	52.707	1.00	0.00	H
ATOM	3440	CG2	THR	223	24.267	35.336	51.290	1.00	0.00	C
ATOM	3441	HG21	THR	223	23.231	35.647	51.149	1.00	0.00	H
ATOM	3442	HG22	THR	223	24.871	35.817	50.521	1.00	0.00	H
ATOM	3443	HG23	THR	223	24.332	34.252	51.183	1.00	0.00	H
ATOM	3444	OG1	THR	223	23.778	35.334	53.650	1.00	0.00	O
ATOM	3445	HG1	THR	223	23.714	34.376	53.618	1.00	0.00	H
ATOM	3446	C	THR	223	27.105	35.498	51.876	1.00	0.00	C
ATOM	3447	O	THR	223	27.428	34.677	51.094	1.00	0.00	O
ATOM	3448	N	ALA	224	27.736	36.690	51.942	1.00	0.00	N

ATOM	3449	H	ALA	224	27.521	37.325	52.697	1.00	0.00	H
ATOM	3450	CA	ALA	224	28.684	37.136	50.919	1.00	0.00	C
ATOM	3451	HA	ALA	224	28.185	37.232	49.954	1.00	0.00	H
ATOM	3452	CB	ALA	224	29.198	38.475	51.383	1.00	0.00	C
ATOM	3453	HB1	ALA	224	29.762	38.936	50.571	1.00	0.00	H
ATOM	3454	HB2	ALA	224	28.369	39.135	51.640	1.00	0.00	H
ATOM	3455	HB3	ALA	224	29.863	38.374	52.228	1.00	0.00	H
ATOM	3456	C	ALA	224	29.861	36.193	50.819	1.00	0.00	C
ATOM	3457	O	ALA	224	30.129	35.571	49.749	1.00	0.00	O
ATOM	3458	N	LEU	225	30.478	35.794	51.931	1.00	0.00	N
ATOM	3459	H	LEU	225	30.170	36.204	52.802	1.00	0.00	H
ATOM	3460	CA	LEU	225	31.601	34.848	52.029	1.00	0.00	C
ATOM	3461	HA	LEU	225	32.399	35.185	51.373	1.00	0.00	H
ATOM	3462	CB	LEU	225	32.110	34.815	53.476	1.00	0.00	C
ATOM	3463	HB2	LEU	225	31.269	34.606	54.139	1.00	0.00	H
ATOM	3464	HB3	LEU	225	32.807	33.979	53.566	1.00	0.00	H
ATOM	3465	CG	LEU	225	32.824	36.083	53.959	1.00	0.00	C
ATOM	3466	HG	LEU	225	32.118	36.912	53.951	1.00	0.00	H
ATOM	3467	CD1	LEU	225	33.309	35.881	55.388	1.00	0.00	C
ATOM	3468	HD11	LEU	225	33.729	36.801	55.791	1.00	0.00	H
ATOM	3469	HD12	LEU	225	32.472	35.569	56.008	1.00	0.00	H
ATOM	3470	HD13	LEU	225	34.072	35.101	55.417	1.00	0.00	H
ATOM	3471	CD2	LEU	225	33.985	36.398	53.027	1.00	0.00	C
ATOM	3472	HD21	LEU	225	34.623	37.154	53.482	1.00	0.00	H
ATOM	3473	HD22	LEU	225	34.577	35.502	52.842	1.00	0.00	H
ATOM	3474	HD23	LEU	225	33.620	36.794	52.082	1.00	0.00	H
ATOM	3475	C	LEU	225	31.228	33.400	51.571	1.00	0.00	C
ATOM	3476	O	LEU	225	31.974	32.921	50.721	1.00	0.00	O
ATOM	3477	N	GLU	226	30.060	32.902	51.903	1.00	0.00	N
ATOM	3478	H	GLU	226	29.454	33.384	52.552	1.00	0.00	H

ATOM	3479	CA	GLU	226	29.657	31.589	51.383	1.00	0.00	C
ATOM	3480	HA	GLU	226	30.415	30.856	51.667	1.00	0.00	H
ATOM	3481	CB	GLU	226	28.332	31.171	52.025	1.00	0.00	C
ATOM	3482	HB2	GLU	226	27.613	31.980	51.892	1.00	0.00	H
ATOM	3483	HB3	GLU	226	27.955	30.291	51.501	1.00	0.00	H
ATOM	3484	CG	GLU	226	28.432	30.823	53.504	1.00	0.00	C
ATOM	3485	HG2	GLU	226	29.096	29.964	53.618	1.00	0.00	H
ATOM	3486	HG3	GLU	226	28.868	31.661	54.048	1.00	0.00	H
ATOM	3487	CD	GLU	226	27.099	30.497	54.119	1.00	0.00	C
ATOM	3488	OE1	GLU	226	26.107	30.624	53.443	1.00	0.00	O
ATOM	3489	OE2	GLU	226	27.074	30.120	55.267	1.00	0.00	O
ATOM	3490	C	GLU	226	29.516	31.536	49.852	1.00	0.00	C
ATOM	3491	O	GLU	226	30.039	30.647	49.203	1.00	0.00	O
ATOM	3492	N	ARG	227	28.961	32.649	49.307	1.00	0.00	N
ATOM	3493	H	ARG	227	28.620	33.399	49.892	1.00	0.00	H
ATOM	3494	CA	ARG	227	28.727	32.677	47.882	1.00	0.00	C
ATOM	3495	HA	ARG	227	28.337	31.710	47.558	1.00	0.00	H
ATOM	3496	CB	ARG	227	27.706	33.749	47.531	1.00	0.00	C
ATOM	3497	HB2	ARG	227	28.045	34.708	47.922	1.00	0.00	H
ATOM	3498	HB3	ARG	227	27.648	33.806	46.446	1.00	0.00	H
ATOM	3499	CG	ARG	227	26.295	33.475	48.024	1.00	0.00	C
ATOM	3500	HG2	ARG	227	25.949	32.534	47.593	1.00	0.00	H
ATOM	3501	HG3	ARG	227	26.297	33.376	49.109	1.00	0.00	H
ATOM	3502	CD	ARG	227	25.357	34.560	47.638	1.00	0.00	C
ATOM	3503	HD2	ARG	227	25.703	35.496	48.080	1.00	0.00	H
ATOM	3504	HD3	ARG	227	25.358	34.659	46.552	1.00	0.00	H
ATOM	3505	NE	ARG	227	23.999	34.288	48.081	1.00	0.00	N
ATOM	3506	HE	ARG	227	23.826	33.381	48.491	1.00	0.00	H
ATOM	3507	CZ	ARG	227	22.972	35.153	47.976	1.00	0.00	C
ATOM	3508	NH1	ARG	227	23.163	36.339	47.442	1.00	0.00	N

ATOM	3509	HH11	ARG	227	22.387	36.970	47.319	1.00	0.00	H
ATOM	3510	HH12	ARG	227	24.082	36.591	47.113	1.00	0.00	H
ATOM	3511	NH2	ARG	227	21.772	34.809	48.410	1.00	0.00	N
ATOM	3512	HH21	ARG	227	21.004	35.460	48.357	1.00	0.00	H
ATOM	3513	HH22	ARG	227	21.622	33.885	48.788	1.00	0.00	H
ATOM	3514	C	ARG	227	30.021	32.935	47.123	1.00	0.00	C
ATOM	3515	O	ARG	227	30.392	32.154	46.168	1.00	0.00	O
ATOM	3516	N	LEU	228	30.867	33.750	47.690	1.00	0.00	N
ATOM	3517	H	LEU	228	30.570	34.215	48.535	1.00	0.00	H
ATOM	3518	CA	LEU	228	32.249	34.093	47.186	1.00	0.00	C
ATOM	3519	HA	LEU	228	32.166	34.481	46.172	1.00	0.00	H
ATOM	3520	CB	LEU	228	32.904	35.142	48.094	1.00	0.00	C
ATOM	3521	HB2	LEU	228	32.755	34.832	49.127	1.00	0.00	H
ATOM	3522	HB3	LEU	228	33.981	35.132	47.918	1.00	0.00	H
ATOM	3523	CG	LEU	228	32.402	36.581	47.919	1.00	0.00	C
ATOM	3524	HG	LEU	228	31.317	36.596	47.892	1.00	0.00	H
ATOM	3525	CD1	LEU	228	32.874	37.430	49.090	1.00	0.00	C
ATOM	3526	HD11	LEU	228	32.493	38.444	48.982	1.00	0.00	H
ATOM	3527	HD12	LEU	228	32.493	37.026	50.025	1.00	0.00	H
ATOM	3528	HD13	LEU	228	33.964	37.452	49.125	1.00	0.00	H
ATOM	3529	CD2	LEU	228	32.911	37.139	46.598	1.00	0.00	C
ATOM	3530	HD21	LEU	228	32.649	38.188	46.525	1.00	0.00	H
ATOM	3531	HD22	LEU	228	33.998	37.060	46.550	1.00	0.00	H
ATOM	3532	HD23	LEU	228	32.489	36.606	45.751	1.00	0.00	H
ATOM	3533	C	LEU	228	33.151	32.799	47.122	1.00	0.00	C
ATOM	3534	O	LEU	228	34.022	32.772	46.304	1.00	0.00	O
ATOM	3535	N	VAL	229	33.036	31.786	48.026	1.00	0.00	N
ATOM	3536	H	VAL	229	32.328	31.868	48.744	1.00	0.00	H
ATOM	3537	CA	VAL	229	33.869	30.503	48.036	1.00	0.00	C
ATOM	3538	HA	VAL	229	34.882	30.727	47.699	1.00	0.00	H

ATOM	3539	CB	VAL	229	33.933	29.876	49.442	1.00	0.00	C
ATOM	3540	HB	VAL	229	32.918	29.697	49.801	1.00	0.00	H
ATOM	3541	CG1	VAL	229	34.671	28.547	49.399	1.00	0.00	C
ATOM	3542	HG11	VAL	229	34.786	28.160	50.412	1.00	0.00	H
ATOM	3543	HG12	VAL	229	34.111	27.812	48.824	1.00	0.00	H
ATOM	3544	HG13	VAL	229	35.659	28.676	48.956	1.00	0.00	H
ATOM	3545	CG2	VAL	229	34.609	30.838	50.407	1.00	0.00	C
ATOM	3546	HG21	VAL	229	34.591	30.419	51.413	1.00	0.00	H
ATOM	3547	HG22	VAL	229	35.638	31.011	50.096	1.00	0.00	H
ATOM	3548	HG23	VAL	229	34.104	31.797	50.430	1.00	0.00	H
ATOM	3549	C	VAL	229	33.239	29.494	47.064	1.00	0.00	C
ATOM	3550	O	VAL	229	33.849	28.945	46.160	1.00	0.00	O
ATOM	3551	N	GLU	230	31.963	29.263	47.185	1.00	0.00	N
ATOM	3552	H	GLU	230	31.450	29.773	47.892	1.00	0.00	H
ATOM	3553	CA	GLU	230	31.229	28.226	46.486	1.00	0.00	C
ATOM	3554	HA	GLU	230	31.920	27.418	46.242	1.00	0.00	H
ATOM	3555	CB	GLU	230	30.209	27.653	47.472	1.00	0.00	C
ATOM	3556	HB2	GLU	230	29.560	28.455	47.826	1.00	0.00	H
ATOM	3557	HB3	GLU	230	29.589	26.932	46.938	1.00	0.00	H
ATOM	3558	CG	GLU	230	30.822	26.923	48.658	1.00	0.00	C
ATOM	3559	HG2	GLU	230	31.466	26.127	48.282	1.00	0.00	H
ATOM	3560	HG3	GLU	230	31.433	27.615	49.239	1.00	0.00	H
ATOM	3561	CD	GLU	230	29.791	26.318	49.570	1.00	0.00	C
ATOM	3562	OE1	GLU	230	28.624	26.500	49.319	1.00	0.00	O
ATOM	3563	OE2	GLU	230	30.171	25.673	50.519	1.00	0.00	O
ATOM	3564	C	GLU	230	30.493	28.594	45.140	1.00	0.00	C
ATOM	3565	O	GLU	230	29.840	27.765	44.467	1.00	0.00	O
ATOM	3566	N	ALA	231	30.608	29.831	44.705	1.00	0.00	N
ATOM	3567	H	ALA	231	31.108	30.491	45.284	1.00	0.00	H
ATOM	3568	CA	ALA	231	30.141	30.327	43.419	1.00	0.00	C

ATOM	3569	HA	ALA	231	29.071	30.113	43.406	1.00	0.00	H
ATOM	3570	CB	ALA	231	30.238	31.849	43.395	1.00	0.00	C
ATOM	3571	HB1	ALA	231	30.078	32.220	42.382	1.00	0.00	H
ATOM	3572	HB2	ALA	231	29.449	32.276	44.009	1.00	0.00	H
ATOM	3573	HB3	ALA	231	31.225	32.172	43.727	1.00	0.00	H
ATOM	3574	C	ALA	231	30.649	29.727	42.125	1.00	0.00	C
ATOM	3575	O	ALA	231	29.954	29.730	41.104	1.00	0.00	O
ATOM	3576	N	PHE	232	31.883	29.198	42.106	1.00	0.00	N
ATOM	3577	H	PHE	232	32.425	29.206	42.957	1.00	0.00	H
ATOM	3578	CA	PHE	232	32.510	28.626	40.908	1.00	0.00	C
ATOM	3579	HA	PHE	232	31.856	28.802	40.052	1.00	0.00	H
ATOM	3580	CB	PHE	232	33.797	29.403	40.626	1.00	0.00	C
ATOM	3581	HB2	PHE	232	34.486	29.267	41.461	1.00	0.00	H
ATOM	3582	HB3	PHE	232	34.274	28.988	39.737	1.00	0.00	H
ATOM	3583	CG	PHE	232	33.582	30.874	40.410	1.00	0.00	C
ATOM	3584	CD1	PHE	232	33.565	31.752	41.484	1.00	0.00	C
ATOM	3585	HD1	PHE	232	33.722	31.383	42.487	1.00	0.00	H
ATOM	3586	CE1	PHE	232	33.367	33.106	41.286	1.00	0.00	C
ATOM	3587	HE1	PHE	232	33.340	33.779	42.130	1.00	0.00	H
ATOM	3588	CZ	PHE	232	33.184	33.597	40.011	1.00	0.00	C
ATOM	3589	HZ	PHE	232	33.037	34.654	39.846	1.00	0.00	H
ATOM	3590	CE2	PHE	232	33.199	32.735	38.933	1.00	0.00	C
ATOM	3591	HE2	PHE	232	33.065	33.118	37.935	1.00	0.00	H
ATOM	3592	CD2	PHE	232	33.396	31.383	39.134	1.00	0.00	C
ATOM	3593	HD2	PHE	232	33.384	30.716	38.284	1.00	0.00	H
ATOM	3594	C	PHE	232	32.849	27.117	40.910	1.00	0.00	C
ATOM	3595	O	PHE	232	33.269	26.508	41.923	1.00	0.00	O
ATOM	3596	N	GLN	233	32.693	26.515	39.735	1.00	0.00	N
ATOM	3597	H	GLN	233	32.337	27.080	38.975	1.00	0.00	H
ATOM	3598	CA	GLN	233	33.073	25.136	39.361	1.00	0.00	C

ATOM	3599	HA	GLN	233	33.286	24.564	40.266	1.00	0.00	H
ATOM	3600	CB	GLN	233	31.962	24.423	38.585	1.00	0.00	C
ATOM	3601	HB2	GLN	233	31.677	25.028	37.729	1.00	0.00	H
ATOM	3602	HB3	GLN	233	32.347	23.467	38.229	1.00	0.00	H
ATOM	3603	CG	GLN	233	30.704	24.162	39.396	1.00	0.00	C
ATOM	3604	HG2	GLN	233	30.988	23.776	40.376	1.00	0.00	H
ATOM	3605	HG3	GLN	233	30.169	25.101	39.546	1.00	0.00	H
ATOM	3606	CD	GLN	233	29.787	23.153	38.732	1.00	0.00	C
ATOM	3607	OE1	GLN	233	28.742	23.646	38.077	1.00	0.00	O
ATOM	3608	NE2	GLN	233	30.014	21.943	38.808	1.00	0.00	N
ATOM	3609	HE21	GLN	233	30.810	21.612	39.330	1.00	0.00	H
ATOM	3610	HE22	GLN	233	29.402	21.297	38.335	1.00	0.00	H
ATOM	3611	C	GLN	233	34.312	25.206	38.532	1.00	0.00	C
ATOM	3612	O	GLN	233	34.609	26.229	37.840	1.00	0.00	O
ATOM	3613	N	ARG	234	34.986	24.090	38.521	1.00	0.00	N
ATOM	3614	H	ARG	234	34.565	23.335	39.043	1.00	0.00	H
ATOM	3615	CA	ARG	234	36.321	23.755	37.968	1.00	0.00	C
ATOM	3616	HA	ARG	234	36.613	24.566	37.299	1.00	0.00	H
ATOM	3617	CB	ARG	234	37.333	23.710	39.104	1.00	0.00	C
ATOM	3618	HB2	ARG	234	38.317	23.538	38.689	1.00	0.00	H
ATOM	3619	HB3	ARG	234	37.340	24.686	39.590	1.00	0.00	H
ATOM	3620	CG	ARG	234	37.069	22.641	40.153	1.00	0.00	C
ATOM	3621	HG2	ARG	234	36.059	22.749	40.549	1.00	0.00	H
ATOM	3622	HG3	ARG	234	37.163	21.661	39.689	1.00	0.00	H
ATOM	3623	CD	ARG	234	38.030	22.732	41.283	1.00	0.00	C
ATOM	3624	HD2	ARG	234	39.039	22.737	40.874	1.00	0.00	H
ATOM	3625	HD3	ARG	234	37.858	23.656	41.837	1.00	0.00	H
ATOM	3626	NE	ARG	234	37.924	21.591	42.178	1.00	0.00	N
ATOM	3627	HE	ARG	234	37.119	20.989	42.065	1.00	0.00	H
ATOM	3628	CZ	ARG	234	38.803	21.303	43.158	1.00	0.00	C

ATOM	3629	NH1	ARG	234	39.844	22.080	43.355	1.00	0.00	N
ATOM	3630	HH11	ARG	234	39.955	22.916	42.802	1.00	0.00	H
ATOM	3631	HH12	ARG	234	40.476	21.881	44.114	1.00	0.00	H
ATOM	3632	NH2	ARG	234	38.618	20.239	43.920	1.00	0.00	N
ATOM	3633	HH21	ARG	234	39.277	20.014	44.652	1.00	0.00	H
ATOM	3634	HH22	ARG	234	37.811	19.648	43.771	1.00	0.00	H
ATOM	3635	C	ARG	234	36.445	22.439	37.180	1.00	0.00	C
ATOM	3636	O	ARG	234	35.659	21.504	37.326	1.00	0.00	O
ATOM	3637	N	ALA	235	37.505	22.344	36.399	1.00	0.00	N
ATOM	3638	H	ALA	235	38.101	23.158	36.373	1.00	0.00	H
ATOM	3639	CA	ALA	235	37.934	21.286	35.552	1.00	0.00	C
ATOM	3640	HA	ALA	235	37.038	20.893	35.069	1.00	0.00	H
ATOM	3641	CB	ALA	235	38.798	21.812	34.455	1.00	0.00	C
ATOM	3642	HB1	ALA	235	39.117	20.994	33.809	1.00	0.00	H
ATOM	3643	HB2	ALA	235	38.234	22.513	33.845	1.00	0.00	H
ATOM	3644	HB3	ALA	235	39.678	22.305	34.869	1.00	0.00	H
ATOM	3645	C	ALA	235	38.529	20.092	36.374	1.00	0.00	C
ATOM	3646	O	ALA	235	39.532	19.557	35.947	1.00	0.00	O
ATOM	3647	N	ARG	236	37.846	19.634	37.409	1.00	0.00	N
ATOM	3648	H	ARG	236	36.986	20.115	37.637	1.00	0.00	H
ATOM	3649	CA	ARG	236	38.171	18.488	38.284	1.00	0.00	C
ATOM	3650	HA	ARG	236	38.186	17.591	37.665	1.00	0.00	H
ATOM	3651	CB	ARG	236	39.557	18.683	38.881	1.00	0.00	C
ATOM	3652	HB2	ARG	236	39.799	17.797	39.468	1.00	0.00	H
ATOM	3653	HB3	ARG	236	40.302	18.725	38.090	1.00	0.00	H
ATOM	3654	CG	ARG	236	39.696	19.895	39.790	1.00	0.00	C
ATOM	3655	HG2	ARG	236	39.479	20.810	39.237	1.00	0.00	H
ATOM	3656	HG3	ARG	236	38.987	19.795	40.608	1.00	0.00	H
ATOM	3657	CD	ARG	236	41.058	19.988	40.375	1.00	0.00	C
ATOM	3658	HD2	ARG	236	41.079	20.814	41.087	1.00	0.00	H

ATOM	3659	HD3	ARG	236	41.270	19.062	40.912	1.00	0.00	H
ATOM	3660	NE	ARG	236	42.070	20.226	39.358	1.00	0.00	N
ATOM	3661	HE	ARG	236	41.753	20.589	38.471	1.00	0.00	H
ATOM	3662	CZ	ARG	236	43.384	19.969	39.512	1.00	0.00	C
ATOM	3663	NH1	ARG	236	43.828	19.467	40.643	1.00	0.00	N
ATOM	3664	HH11	ARG	236	44.812	19.282	40.764	1.00	0.00	H
ATOM	3665	HH12	ARG	236	43.184	19.242	41.388	1.00	0.00	H
ATOM	3666	NH2	ARG	236	44.226	20.221	38.525	1.00	0.00	N
ATOM	3667	HH21	ARG	236	43.878	20.572	37.645	1.00	0.00	H
ATOM	3668	HH22	ARG	236	45.216	20.075	38.653	1.00	0.00	H
ATOM	3669	C	ARG	236	37.112	18.280	39.450	1.00	0.00	C
ATOM	3670	O	ARG	236	36.345	19.210	39.659	1.00	0.00	O
ATOM	3671	N	PRO	237	36.939	17.098	40.109	1.00	0.00	N
ATOM	3672	CD	PRO	237	37.739	15.916	39.854	1.00	0.00	C
ATOM	3673	HD2	PRO	237	38.700	15.996	40.363	1.00	0.00	H
ATOM	3674	HD3	PRO	237	37.869	15.725	38.789	1.00	0.00	H
ATOM	3675	CG	PRO	237	36.892	14.807	40.496	1.00	0.00	C
ATOM	3676	HG2	PRO	237	37.504	13.950	40.781	1.00	0.00	H
ATOM	3677	HG3	PRO	237	36.098	14.501	39.812	1.00	0.00	H
ATOM	3678	CB	PRO	237	36.302	15.491	41.695	1.00	0.00	C
ATOM	3679	HB2	PRO	237	37.062	15.562	42.476	1.00	0.00	H
ATOM	3680	HB3	PRO	237	35.424	14.962	42.066	1.00	0.00	H
ATOM	3681	CA	PRO	237	35.946	16.844	41.165	1.00	0.00	C
ATOM	3682	HA	PRO	237	34.971	16.774	40.678	1.00	0.00	H
ATOM	3683	C	PRO	237	35.849	17.808	42.334	1.00	0.00	C
ATOM	3684	O	PRO	237	36.788	18.147	42.980	1.00	0.00	O
ATOM	3685	N	GLY	238	34.626	18.185	42.646	1.00	0.00	N
ATOM	3686	H	GLY	238	33.843	17.863	42.096	1.00	0.00	H
ATOM	3687	CA	GLY	238	34.359	19.136	43.803	1.00	0.00	C
ATOM	3688	HA2	GLY	238	33.335	18.995	44.150	1.00	0.00	H

ATOM	3689	HA3	GLY	238	35.040	18.946	44.634	1.00	0.00	H
ATOM	3690	C	GLY	238	34.534	20.577	43.303	1.00	0.00	C
ATOM	3691	O	GLY	238	35.235	20.865	42.334	1.00	0.00	O
ATOM	3692	N	ASN	239	34.079	21.479	44.147	1.00	0.00	N
ATOM	3693	H	ASN	239	33.618	21.158	44.986	1.00	0.00	H
ATOM	3694	CA	ASN	239	34.177	22.903	43.987	1.00	0.00	C
ATOM	3695	HA	ASN	239	34.212	23.133	42.921	1.00	0.00	H
ATOM	3696	CB	ASN	239	32.941	23.582	44.546	1.00	0.00	C
ATOM	3697	HB2	ASN	239	32.910	24.641	44.287	1.00	0.00	H
ATOM	3698	HB3	ASN	239	32.065	23.131	44.077	1.00	0.00	H
ATOM	3699	CG	ASN	239	32.819	23.423	46.036	1.00	0.00	C
ATOM	3700	OD1	ASN	239	33.795	23.094	46.720	1.00	0.00	O
ATOM	3701	ND2	ASN	239	31.638	23.649	46.553	1.00	0.00	N
ATOM	3702	HD21	ASN	239	30.870	23.941	45.967	1.00	0.00	H
ATOM	3703	HD22	ASN	239	31.512	23.572	47.552	1.00	0.00	H
ATOM	3704	C	ASN	239	35.381	23.487	44.602	1.00	0.00	C
ATOM	3705	O	ASN	239	36.323	22.842	45.063	1.00	0.00	O
ATOM	3706	N	HID	240	35.392	24.851	44.727	1.00	0.00	N
ATOM	3707	H	HID	240	34.622	25.413	44.393	1.00	0.00	H
ATOM	3708	CA	HID	240	36.597	25.525	45.257	1.00	0.00	C
ATOM	3709	HA	HID	240	37.483	24.994	44.907	1.00	0.00	H
ATOM	3710	CB	HID	240	36.677	26.950	44.700	1.00	0.00	C
ATOM	3711	HB2	HID	240	35.742	27.472	44.905	1.00	0.00	H
ATOM	3712	HB3	HID	240	37.477	27.500	45.197	1.00	0.00	H
ATOM	3713	CG	HID	240	36.962	27.007	43.231	1.00	0.00	C
ATOM	3714	ND1	HID	240	35.976	26.868	42.277	1.00	0.00	N
ATOM	3715	HD1	HID	240	34.990	26.761	42.466	1.00	0.00	H
ATOM	3716	CE1	HID	240	36.516	26.960	41.074	1.00	0.00	C
ATOM	3717	HE1	HID	240	35.982	26.921	40.136	1.00	0.00	H
ATOM	3718	NE2	HID	240	37.815	27.153	41.215	1.00	0.00	N

ATOM	3719	CD2	HID	240	38.120	27.186	42.554	1.00	0.00	C
ATOM	3720	HD2	HID	240	39.098	27.329	42.986	1.00	0.00	H
ATOM	3721	C	HID	240	36.688	25.594	46.789	1.00	0.00	C
ATOM	3722	O	HID	240	37.692	26.163	47.290	1.00	0.00	O
ATOM	3723	N	ASN	241	35.735	25.031	47.462	1.00	0.00	N
ATOM	3724	H	ASN	241	34.990	24.567	46.965	1.00	0.00	H
ATOM	3725	CA	ASN	241	35.678	25.008	48.969	1.00	0.00	C
ATOM	3726	HA	ASN	241	36.047	25.959	49.357	1.00	0.00	H
ATOM	3727	CB	ASN	241	34.275	24.778	49.499	1.00	0.00	C
ATOM	3728	HB2	ASN	241	33.614	25.525	49.062	1.00	0.00	H
ATOM	3729	HB3	ASN	241	33.915	23.795	49.200	1.00	0.00	H
ATOM	3730	CG	ASN	241	34.200	24.873	50.998	1.00	0.00	C
ATOM	3731	OD1	ASN	241	35.197	24.658	51.696	1.00	0.00	O
ATOM	3732	ND2	ASN	241	33.037	25.192	51.505	1.00	0.00	N
ATOM	3733	HD21	ASN	241	32.234	25.355	50.912	1.00	0.00	H
ATOM	3734	HD22	ASN	241	32.939	25.244	52.507	1.00	0.00	H
ATOM	3735	C	ASN	241	36.649	23.872	49.385	1.00	0.00	C
ATOM	3736	O	ASN	241	36.369	22.660	49.377	1.00	0.00	O
ATOM	3737	N	GLY	242	37.818	24.183	49.872	1.00	0.00	N
ATOM	3738	H	GLY	242	38.043	25.161	49.998	1.00	0.00	H
ATOM	3739	CA	GLY	242	38.893	23.198	50.116	1.00	0.00	C
ATOM	3740	HA2	GLY	242	39.108	23.167	51.183	1.00	0.00	H
ATOM	3741	HA3	GLY	242	38.611	22.196	49.794	1.00	0.00	H
ATOM	3742	C	GLY	242	40.195	23.599	49.345	1.00	0.00	C
ATOM	3743	O	GLY	242	41.219	22.927	49.467	1.00	0.00	O
ATOM	3744	N	ASN	243	40.219	24.753	48.595	1.00	0.00	N
ATOM	3745	H	ASN	243	39.387	25.327	48.559	1.00	0.00	H
ATOM	3746	CA	ASN	243	41.338	25.207	47.861	1.00	0.00	C
ATOM	3747	HA	ASN	243	41.758	24.358	47.321	1.00	0.00	H
ATOM	3748	CB	ASN	243	40.867	26.217	46.831	1.00	0.00	C

ATOM	3749	HB2	ASN	243	41.720	26.505	46.216	1.00	0.00	H
ATOM	3750	HB3	ASN	243	40.123	25.762	46.176	1.00	0.00	H
ATOM	3751	CG	ASN	243	40.288	27.454	47.458	1.00	0.00	C
ATOM	3752	OD1	ASN	243	40.020	27.487	48.664	1.00	0.00	O
ATOM	3753	ND2	ASN	243	40.089	28.474	46.662	1.00	0.00	N
ATOM	3754	HD21	ASN	243	40.338	28.408	45.688	1.00	0.00	H
ATOM	3755	HD22	ASN	243	39.737	29.339	47.044	1.00	0.00	H
ATOM	3756	C	ASN	243	42.466	25.797	48.754	1.00	0.00	C
ATOM	3757	O	ASN	243	42.843	26.970	48.605	1.00	0.00	O
ATOM	3758	N	HIE	244	43.014	24.930	49.647	1.00	0.00	N
ATOM	3759	H	HIE	244	42.702	23.972	49.692	1.00	0.00	H
ATOM	3760	CA	HIE	244	44.003	25.353	50.596	1.00	0.00	C
ATOM	3761	HA	HIE	244	44.481	26.258	50.221	1.00	0.00	H
ATOM	3762	CB	HIE	244	43.294	25.721	51.903	1.00	0.00	C
ATOM	3763	HB2	HIE	244	43.868	26.484	52.425	1.00	0.00	H
ATOM	3764	HB3	HIE	244	42.316	26.142	51.673	1.00	0.00	H
ATOM	3765	CG	HIE	244	43.106	24.562	52.832	1.00	0.00	C
ATOM	3766	ND1	HIE	244	43.896	24.365	53.945	1.00	0.00	N
ATOM	3767	CE1	HIE	244	43.502	23.270	54.572	1.00	0.00	C
ATOM	3768	HE1	HIE	244	43.936	22.873	55.478	1.00	0.00	H
ATOM	3769	NE2	HIE	244	42.487	22.751	53.906	1.00	0.00	N
ATOM	3770	HE2	HIE	244	41.982	21.916	54.164	1.00	0.00	H
ATOM	3771	CD2	HIE	244	42.219	23.539	52.814	1.00	0.00	C
ATOM	3772	HD2	HIE	244	41.457	23.367	52.071	1.00	0.00	H
ATOM	3773	C	HIE	244	45.136	24.347	50.899	1.00	0.00	C
ATOM	3774	O	HIE	244	44.930	23.103	50.733	1.00	0.00	O
ATOM	3775	N	ARG	245	46.384	24.742	51.253	1.00	0.00	N
ATOM	3776	H	ARG	245	46.578	25.735	51.272	1.00	0.00	H
ATOM	3777	CA	ARG	245	47.352	23.907	51.868	1.00	0.00	C
ATOM	3778	HA	ARG	245	47.098	22.867	51.675	1.00	0.00	H

ATOM	3779	CB	ARG	245	48.697	24.162	51.206	1.00	0.00	C
ATOM	3780	HB2	ARG	245	48.588	23.996	50.132	1.00	0.00	H
ATOM	3781	HB3	ARG	245	48.971	25.209	51.355	1.00	0.00	H
ATOM	3782	CG	ARG	245	49.835	23.288	51.710	1.00	0.00	C
ATOM	3783	HG2	ARG	245	49.991	23.465	52.772	1.00	0.00	H
ATOM	3784	HG3	ARG	245	49.569	22.241	51.566	1.00	0.00	H
ATOM	3785	CD	ARG	245	51.104	23.572	50.992	1.00	0.00	C
ATOM	3786	HD2	ARG	245	50.956	23.402	49.930	1.00	0.00	H
ATOM	3787	HD3	ARG	245	51.379	24.615	51.157	1.00	0.00	H
ATOM	3788	NE	ARG	245	52.185	22.709	51.442	1.00	0.00	N
ATOM	3789	HE	ARG	245	51.957	22.016	52.140	1.00	0.00	H
ATOM	3790	CZ	ARG	245	53.461	22.796	51.017	1.00	0.00	C
ATOM	3791	NH1	ARG	245	53.799	23.711	50.136	1.00	0.00	N
ATOM	3792	HH11	ARG	245	54.750	23.791	49.813	1.00	0.00	H
ATOM	3793	HH12	ARG	245	53.098	24.360	49.808	1.00	0.00	H
ATOM	3794	NH2	ARG	245	54.373	21.963	51.488	1.00	0.00	N
ATOM	3795	HH21	ARG	245	54.098	21.218	52.110	1.00	0.00	H
ATOM	3796	HH22	ARG	245	55.338	22.075	51.217	1.00	0.00	H
ATOM	3797	C	ARG	245	47.465	24.111	53.432	1.00	0.00	C
ATOM	3798	O	ARG	245	47.581	25.256	53.813	1.00	0.00	O
ATOM	3799	N	PRO	246	47.460	23.086	54.295	1.00	0.00	N
ATOM	3800	CD	PRO	246	47.246	21.662	53.952	1.00	0.00	C
ATOM	3801	HD2	PRO	246	47.891	21.341	53.134	1.00	0.00	H
ATOM	3802	HD3	PRO	246	46.196	21.498	53.708	1.00	0.00	H
ATOM	3803	CG	PRO	246	47.609	20.939	55.221	1.00	0.00	C
ATOM	3804	HG2	PRO	246	48.687	20.769	55.249	1.00	0.00	H
ATOM	3805	HG3	PRO	246	47.078	19.990	55.305	1.00	0.00	H
ATOM	3806	CB	PRO	246	47.222	21.883	56.308	1.00	0.00	C
ATOM	3807	HB2	PRO	246	47.748	21.664	57.238	1.00	0.00	H
ATOM	3808	HB3	PRO	246	46.144	21.831	56.467	1.00	0.00	H

ATOM	3809	CA	PRO	246	47.586	23.264	55.755	1.00	0.00	C
ATOM	3810	HA	PRO	246	46.886	24.018	56.120	1.00	0.00	H
ATOM	3811	C	PRO	246	49.073	23.675	56.088	1.00	0.00	C
ATOM	3812	O	PRO	246	50.028	23.361	55.400	1.00	0.00	O
ATOM	3813	N	THR	247	49.125	24.324	57.270	1.00	0.00	N
ATOM	3814	H	THR	247	48.273	24.527	57.772	1.00	0.00	H
ATOM	3815	CA	THR	247	50.392	24.721	57.880	1.00	0.00	C
ATOM	3816	HA	THR	247	50.957	25.260	57.127	1.00	0.00	H
ATOM	3817	CB	THR	247	50.111	25.684	59.049	1.00	0.00	C
ATOM	3818	HB	THR	247	51.047	25.911	59.560	1.00	0.00	H
ATOM	3819	CG2	THR	247	49.507	26.983	58.537	1.00	0.00	C
ATOM	3820	HG21	THR	247	50.159	27.424	57.786	1.00	0.00	H
ATOM	3821	HG22	THR	247	48.519	26.805	58.114	1.00	0.00	H
ATOM	3822	HG23	THR	247	49.416	27.686	59.365	1.00	0.00	H
ATOM	3823	OG1	THR	247	49.201	25.068	59.970	1.00	0.00	O
ATOM	3824	HG1	THR	247	49.586	24.244	60.278	1.00	0.00	H
ATOM	3825	C	THR	247	51.295	23.545	58.386	1.00	0.00	C
ATOM	3826	O	THR	247	50.795	22.430	58.601	1.00	0.00	O
ATOM	3827	N	GLN	248	52.624	23.713	58.237	1.00	0.00	N
ATOM	3828	H	GLN	248	52.941	24.620	57.922	1.00	0.00	H
ATOM	3829	CA	GLN	248	53.718	22.703	58.534	1.00	0.00	C
ATOM	3830	HA	GLN	248	53.247	21.730	58.662	1.00	0.00	H
ATOM	3831	CB	GLN	248	54.717	22.614	57.377	1.00	0.00	C
ATOM	3832	HB2	GLN	248	55.246	23.565	57.300	1.00	0.00	H
ATOM	3833	HB3	GLN	248	55.444	21.841	57.607	1.00	0.00	H
ATOM	3834	CG	GLN	248	54.084	22.309	56.030	1.00	0.00	C
ATOM	3835	HG2	GLN	248	53.399	23.110	55.748	1.00	0.00	H
ATOM	3836	HG3	GLN	248	54.865	22.260	55.274	1.00	0.00	H
ATOM	3837	CD	GLN	248	53.355	20.979	56.021	1.00	0.00	C
ATOM	3838	OE1	GLN	248	52.061	21.016	55.726	1.00	0.00	O

ATOM	3839	NE2	GLN	248	53.949	19.928	56.277	1.00	0.00	N
ATOM	3840	HE21	GLN	248	54.937	19.939	56.476	1.00	0.00	H
ATOM	3841	HE22	GLN	248	53.438	19.058	56.246	1.00	0.00	H
ATOM	3842	C	GLN	248	54.459	23.106	59.857	1.00	0.00	C
ATOM	3843	O	GLN	248	54.541	24.322	60.160	1.00	0.00	O
ATOM	3844	N	PRO	249	55.207	22.224	60.554	1.00	0.00	N
ATOM	3845	CD	PRO	249	55.088	20.801	60.291	1.00	0.00	C
ATOM	3846	HD2	PRO	249	55.732	20.516	59.459	1.00	0.00	H
ATOM	3847	HD3	PRO	249	54.058	20.486	60.128	1.00	0.00	H
ATOM	3848	CG	PRO	249	55.604	20.209	61.576	1.00	0.00	C
ATOM	3849	HG2	PRO	249	56.060	19.232	61.411	1.00	0.00	H
ATOM	3850	HG3	PRO	249	54.785	20.126	62.293	1.00	0.00	H
ATOM	3851	CB	PRO	249	56.599	21.204	62.069	1.00	0.00	C
ATOM	3852	HB2	PRO	249	57.539	21.066	61.532	1.00	0.00	H
ATOM	3853	HB3	PRO	249	56.762	21.111	63.143	1.00	0.00	H
ATOM	3854	CA	PRO	249	55.983	22.560	61.710	1.00	0.00	C
ATOM	3855	HA	PRO	249	55.309	22.878	62.507	1.00	0.00	H
ATOM	3856	C	PRO	249	57.063	23.614	61.485	1.00	0.00	C
ATOM	3857	O	PRO	249	57.586	23.766	60.403	1.00	0.00	O
ATOM	3858	N	LEU	250	57.467	24.284	62.544	1.00	0.00	N
ATOM	3859	H	LEU	250	57.003	24.126	63.427	1.00	0.00	H
ATOM	3860	CA	LEU	250	58.546	25.272	62.521	1.00	0.00	C
ATOM	3861	HA	LEU	250	58.283	26.072	61.844	1.00	0.00	H
ATOM	3862	CB	LEU	250	58.719	25.872	63.922	1.00	0.00	C
ATOM	3863	HB2	LEU	250	58.828	25.053	64.635	1.00	0.00	H
ATOM	3864	HB3	LEU	250	59.651	26.439	63.942	1.00	0.00	H
ATOM	3865	CG	LEU	250	57.589	26.795	64.395	1.00	0.00	C
ATOM	3866	HG	LEU	250	56.640	26.258	64.359	1.00	0.00	H
ATOM	3867	CD1	LEU	250	57.845	27.215	65.836	1.00	0.00	C
ATOM	3868	HD11	LEU	250	57.035	27.859	66.181	1.00	0.00	H

ATOM	3869	HD12	LEU	250	57.880	26.335	66.479	1.00	0.00	H
ATOM	3870	HD13	LEU	250	58.789	27.755	65.914	1.00	0.00	H
ATOM	3871	CD2	LEU	250	57.505	28.007	63.479	1.00	0.00	C
ATOM	3872	HD21	LEU	250	56.816	28.737	63.905	1.00	0.00	H
ATOM	3873	HD22	LEU	250	58.476	28.476	63.354	1.00	0.00	H
ATOM	3874	HD23	LEU	250	57.112	27.720	62.505	1.00	0.00	H
ATOM	3875	C	LEU	250	59.890	24.690	62.043	1.00	0.00	C
ATOM	3876	O	LEU	250	60.684	25.404	61.449	1.00	0.00	O
ATOM	3877	N	ASN	251	60.291	23.411	62.447	1.00	0.00	N
ATOM	3878	H	ASN	251	59.657	22.846	62.993	1.00	0.00	H
ATOM	3879	CA	ASN	251	61.567	22.819	62.062	1.00	0.00	C
ATOM	3880	HA	ASN	251	61.675	21.889	62.620	1.00	0.00	H
ATOM	3881	CB	ASN	251	61.557	22.503	60.578	1.00	0.00	C
ATOM	3882	HB2	ASN	251	61.453	23.417	59.993	1.00	0.00	H
ATOM	3883	HB3	ASN	251	62.490	22.017	60.290	1.00	0.00	H
ATOM	3884	CG	ASN	251	60.472	21.533	60.200	1.00	0.00	C
ATOM	3885	OD1	ASN	251	59.737	21.853	59.166	1.00	0.00	O
ATOM	3886	ND2	ASN	251	60.301	20.492	60.846	1.00	0.00	N
ATOM	3887	HD21	ASN	251	60.913	20.267	61.614	1.00	0.00	H
ATOM	3888	HD22	ASN	251	59.557	19.864	60.583	1.00	0.00	H
ATOM	3889	C	ASN	251	62.781	23.662	62.394	1.00	0.00	C
ATOM	3890	O	ASN	251	63.734	23.528	61.642	1.00	0.00	O
ATOM	3891	N	GLY	252	62.794	24.344	63.542	1.00	0.00	N
ATOM	3892	H	GLY	252	61.977	24.326	64.134	1.00	0.00	H
ATOM	3893	CA	GLY	252	63.901	25.236	63.932	1.00	0.00	C
ATOM	3894	HA2	GLY	252	64.003	25.197	65.017	1.00	0.00	H
ATOM	3895	HA3	GLY	252	64.832	24.881	63.489	1.00	0.00	H
ATOM	3896	C	GLY	252	63.685	26.720	63.515	1.00	0.00	C
ATOM	3897	O	GLY	252	64.500	27.484	63.902	1.00	0.00	O
ATOM	3898	N	ARG	253	62.527	27.013	62.815	1.00	0.00	N

ATOM	3899	H	ARG	253	61.906	26.251	62.586	1.00	0.00	H
ATOM	3900	CA	ARG	253	62.133	28.354	62.355	1.00	0.00	C
ATOM	3901	HA	ARG	253	63.017	28.823	61.921	1.00	0.00	H
ATOM	3902	CB	ARG	253	61.088	28.221	61.257	1.00	0.00	C
ATOM	3903	HB2	ARG	253	61.511	27.603	60.464	1.00	0.00	H
ATOM	3904	HB3	ARG	253	60.212	27.741	61.689	1.00	0.00	H
ATOM	3905	CG	ARG	253	60.629	29.537	60.649	1.00	0.00	C
ATOM	3906	HG2	ARG	253	60.030	30.090	61.374	1.00	0.00	H
ATOM	3907	HG3	ARG	253	61.497	30.139	60.378	1.00	0.00	H
ATOM	3908	CD	ARG	253	59.805	29.322	59.432	1.00	0.00	C
ATOM	3909	HD2	ARG	253	59.381	30.282	59.133	1.00	0.00	H
ATOM	3910	HD3	ARG	253	60.440	28.990	58.614	1.00	0.00	H
ATOM	3911	NE	ARG	253	58.711	28.396	59.674	1.00	0.00	N
ATOM	3912	HE	ARG	253	57.923	28.743	60.198	1.00	0.00	H
ATOM	3913	CZ	ARG	253	58.687	27.114	59.260	1.00	0.00	C
ATOM	3914	NH1	ARG	253	59.704	26.622	58.587	1.00	0.00	N
ATOM	3915	HH11	ARG	253	60.508	27.204	58.410	1.00	0.00	H
ATOM	3916	HH12	ARG	253	59.682	25.670	58.255	1.00	0.00	H
ATOM	3917	NH2	ARG	253	57.643	26.351	59.531	1.00	0.00	N
ATOM	3918	HH21	ARG	253	56.853	26.727	60.032	1.00	0.00	H
ATOM	3919	HH22	ARG	253	57.644	25.379	59.255	1.00	0.00	H
ATOM	3920	C	ARG	253	61.580	29.302	63.407	1.00	0.00	C
ATOM	3921	O	ARG	253	60.724	28.972	64.220	1.00	0.00	O
ATOM	3922	N	VAL	254	61.913	30.605	63.423	1.00	0.00	N
ATOM	3923	H	VAL	254	62.570	30.929	62.729	1.00	0.00	H
ATOM	3924	CA	VAL	254	61.424	31.633	64.392	1.00	0.00	C
ATOM	3925	HA	VAL	254	60.784	31.170	65.143	1.00	0.00	H
ATOM	3926	CB	VAL	254	62.603	32.310	65.116	1.00	0.00	C
ATOM	3927	HB	VAL	254	63.273	32.753	64.377	1.00	0.00	H
ATOM	3928	CG1	VAL	254	62.102	33.420	66.028	1.00	0.00	C

ATOM	3929	HG11	VAL	254	62.903	33.751	66.686	1.00	0.00	H
ATOM	3930	HG12	VAL	254	61.780	34.277	65.439	1.00	0.00	H
ATOM	3931	HG13	VAL	254	61.274	33.053	66.628	1.00	0.00	H
ATOM	3932	CG2	VAL	254	63.389	31.275	65.906	1.00	0.00	C
ATOM	3933	HG21	VAL	254	64.200	31.764	66.446	1.00	0.00	H
ATOM	3934	HG22	VAL	254	62.737	30.775	66.624	1.00	0.00	H
ATOM	3935	HG23	VAL	254	63.827	30.532	65.240	1.00	0.00	H
ATOM	3936	C	VAL	254	60.586	32.705	63.618	1.00	0.00	C
ATOM	3937	O	VAL	254	60.997	33.164	62.543	1.00	0.00	O
ATOM	3938	N	VAL	255	59.463	33.069	64.163	1.00	0.00	N
ATOM	3939	H	VAL	255	59.178	32.663	65.042	1.00	0.00	H
ATOM	3940	CA	VAL	255	58.662	34.139	63.608	1.00	0.00	C
ATOM	3941	HA	VAL	255	58.907	34.294	62.557	1.00	0.00	H
ATOM	3942	CB	VAL	255	57.180	33.723	63.662	1.00	0.00	C
ATOM	3943	HB	VAL	255	56.585	34.515	63.217	1.00	0.00	H
ATOM	3944	CG1	VAL	255	56.956	32.447	62.865	1.00	0.00	C
ATOM	3945	HG11	VAL	255	55.885	32.275	62.748	1.00	0.00	H
ATOM	3946	HG12	VAL	255	57.411	32.534	61.881	1.00	0.00	H
ATOM	3947	HG13	VAL	255	57.391	31.587	63.377	1.00	0.00	H
ATOM	3948	CG2	VAL	255	56.746	33.540	65.108	1.00	0.00	C
ATOM	3949	HG21	VAL	255	55.714	33.189	65.122	1.00	0.00	H
ATOM	3950	HG22	VAL	255	57.351	32.797	65.621	1.00	0.00	H
ATOM	3951	HG23	VAL	255	56.784	34.482	65.642	1.00	0.00	H
ATOM	3952	C	VAL	255	58.844	35.519	64.331	1.00	0.00	C
ATOM	3953	O	VAL	255	59.499	35.487	65.352	1.00	0.00	O
ATOM	3954	N	TYR	256	58.285	36.635	63.871	1.00	0.00	N
ATOM	3955	H	TYR	256	57.749	36.639	63.014	1.00	0.00	H
ATOM	3956	CA	TYR	256	58.536	37.913	64.563	1.00	0.00	C
ATOM	3957	HA	TYR	256	58.670	37.706	65.621	1.00	0.00	H
ATOM	3958	CB	TYR	256	59.839	38.521	64.040	1.00	0.00	C

ATOM	3959	HB2	TYR	256	60.063	39.425	64.603	1.00	0.00	H
ATOM	3960	HB3	TYR	256	60.659	37.824	64.217	1.00	0.00	H
ATOM	3961	CG	TYR	256	59.798	38.883	62.572	1.00	0.00	C
ATOM	3962	CD1	TYR	256	59.346	40.135	62.179	1.00	0.00	C
ATOM	3963	HD1	TYR	256	58.993	40.842	62.908	1.00	0.00	H
ATOM	3964	CE1	TYR	256	59.308	40.466	60.838	1.00	0.00	C
ATOM	3965	HE1	TYR	256	58.969	41.445	60.532	1.00	0.00	H
ATOM	3966	CZ	TYR	256	59.724	39.541	59.888	1.00	0.00	C
ATOM	3967	OH	TYR	256	59.686	39.871	58.552	1.00	0.00	O
ATOM	3968	HH	TYR	256	59.979	39.149	57.994	1.00	0.00	H
ATOM	3969	CE2	TYR	256	60.173	38.296	60.278	1.00	0.00	C
ATOM	3970	HE2	TYR	256	60.518	37.588	59.540	1.00	0.00	H
ATOM	3971	CD2	TYR	256	60.211	37.965	61.619	1.00	0.00	C
ATOM	3972	HD2	TYR	256	60.538	36.979	61.919	1.00	0.00	H
ATOM	3973	C	TYR	256	57.416	38.962	64.460	1.00	0.00	C
ATOM	3974	O	TYR	256	56.768	39.042	63.436	1.00	0.00	O
ATOM	3975	N	HIE	257	57.356	39.913	65.479	1.00	0.00	N
ATOM	3976	H	HIE	257	57.961	39.827	66.282	1.00	0.00	H
ATOM	3977	CA	HIE	257	56.518	41.167	65.343	1.00	0.00	C
ATOM	3978	HA	HIE	257	55.646	40.935	64.730	1.00	0.00	H
ATOM	3979	CB	HIE	257	56.006	41.624	66.712	1.00	0.00	C
ATOM	3980	HB2	HIE	257	56.847	41.708	67.402	1.00	0.00	H
ATOM	3981	HB3	HIE	257	55.553	42.612	66.617	1.00	0.00	H
ATOM	3982	CG	HIE	257	54.972	40.715	67.302	1.00	0.00	C
ATOM	3983	ND1	HIE	257	53.676	40.661	66.835	1.00	0.00	N
ATOM	3984	CE1	HIE	257	52.994	39.776	67.541	1.00	0.00	C
ATOM	3985	HE1	HIE	257	51.951	39.531	67.404	1.00	0.00	H
ATOM	3986	NE2	HIE	257	53.800	39.256	68.448	1.00	0.00	N
ATOM	3987	HE2	HIE	257	53.540	38.555	69.127	1.00	0.00	H
ATOM	3988	CD2	HIE	257	55.043	39.826	68.320	1.00	0.00	C

ATOM	3989	HD2	HIE	257	55.914	39.610	68.920	1.00	0.00	H
ATOM	3990	C	HIE	257	57.231	42.345	64.696	1.00	0.00	C
ATOM	3991	O	HIE	257	58.454	42.412	64.684	1.00	0.00	O
ATOM	3992	N	PHE	258	56.485	43.257	64.082	1.00	0.00	N
ATOM	3993	H	PHE	258	55.484	43.123	64.090	1.00	0.00	H
ATOM	3994	CA	PHE	258	56.964	44.530	63.511	1.00	0.00	C
ATOM	3995	HA	PHE	258	57.994	44.410	63.172	1.00	0.00	H
ATOM	3996	CB	PHE	258	56.115	44.916	62.298	1.00	0.00	C
ATOM	3997	HB2	PHE	258	55.066	44.903	62.586	1.00	0.00	H
ATOM	3998	HB3	PHE	258	56.356	45.940	62.008	1.00	0.00	H
ATOM	3999	CG	PHE	258	56.328	44.031	61.102	1.00	0.00	C
ATOM	4000	CD1	PHE	258	55.618	42.849	60.961	1.00	0.00	C
ATOM	4001	HD1	PHE	258	54.925	42.553	61.725	1.00	0.00	H
ATOM	4002	CE1	PHE	258	55.814	42.034	59.862	1.00	0.00	C
ATOM	4003	HE1	PHE	258	55.224	41.142	59.779	1.00	0.00	H
ATOM	4004	CZ	PHE	258	56.722	42.394	58.890	1.00	0.00	C
ATOM	4005	HZ	PHE	258	56.886	41.758	58.034	1.00	0.00	H
ATOM	4006	CE2	PHE	258	57.437	43.569	59.017	1.00	0.00	C
ATOM	4007	HE2	PHE	258	58.146	43.855	58.257	1.00	0.00	H
ATOM	4008	CD2	PHE	258	57.240	44.380	60.117	1.00	0.00	C
ATOM	4009	HD2	PHE	258	57.801	45.291	60.212	1.00	0.00	H
ATOM	4010	C	PHE	258	56.941	45.676	64.527	1.00	0.00	C
ATOM	4011	O	PHE	258	56.358	45.537	65.591	1.00	0.00	O
ATOM	4012	N	VAL	259	57.656	46.800	64.382	1.00	0.00	N
ATOM	4013	H	VAL	259	58.165	46.906	63.514	1.00	0.00	H
ATOM	4014	CA	VAL	259	57.780	47.929	65.287	1.00	0.00	C
ATOM	4015	HA	VAL	259	57.092	47.807	66.123	1.00	0.00	H
ATOM	4016	CB	VAL	259	59.213	48.003	65.847	1.00	0.00	C
ATOM	4017	HB	VAL	259	59.281	48.832	66.553	1.00	0.00	H
ATOM	4018	CG1	VAL	259	59.557	46.725	66.599	1.00	0.00	C

ATOM	4019	HG11	VAL	259	60.549	46.821	67.039	1.00	0.00	H
ATOM	4020	HG12	VAL	259	58.822	46.561	67.386	1.00	0.00	H
ATOM	4021	HG13	VAL	259	59.556	45.863	65.934	1.00	0.00	H
ATOM	4022	CG2	VAL	259	60.199	48.245	64.715	1.00	0.00	C
ATOM	4023	HG21	VAL	259	61.194	48.371	65.140	1.00	0.00	H
ATOM	4024	HG22	VAL	259	60.221	47.400	64.029	1.00	0.00	H
ATOM	4025	HG23	VAL	259	59.962	49.151	64.163	1.00	0.00	H
ATOM	4026	C	VAL	259	57.447	49.240	64.620	1.00	0.00	C
ATOM	4027	O	VAL	259	57.387	49.302	63.401	1.00	0.00	O
ATOM	4028	N	ASP	260	57.433	50.347	65.294	1.00	0.00	N
ATOM	4029	H	ASP	260	57.566	50.315	66.293	1.00	0.00	H
ATOM	4030	CA	ASP	260	57.027	51.674	64.704	1.00	0.00	C
ATOM	4031	HA	ASP	260	56.154	51.525	64.068	1.00	0.00	H
ATOM	4032	CB	ASP	260	56.656	52.664	65.811	1.00	0.00	C
ATOM	4033	HB2	ASP	260	57.485	52.753	66.516	1.00	0.00	H
ATOM	4034	HB3	ASP	260	56.461	53.645	65.373	1.00	0.00	H
ATOM	4035	CG	ASP	260	55.393	52.266	66.563	1.00	0.00	C
ATOM	4036	OD1	ASP	260	54.465	51.819	65.931	1.00	0.00	O
ATOM	4037	OD2	ASP	260	55.368	52.413	67.761	1.00	0.00	O
ATOM	4038	C	ASP	260	58.157	52.286	63.822	1.00	0.00	C
ATOM	4039	O	ASP	260	58.660	53.339	64.257	1.00	0.00	O
ATOM	4040	N	MET	261	58.476	51.676	62.706	1.00	0.00	N
ATOM	4041	H	MET	261	57.987	50.839	62.421	1.00	0.00	H
ATOM	4042	CA	MET	261	59.498	52.211	61.839	1.00	0.00	C
ATOM	4043	HA	MET	261	59.895	53.142	62.243	1.00	0.00	H
ATOM	4044	CB	MET	261	60.657	51.219	61.760	1.00	0.00	C
ATOM	4045	HB2	MET	261	60.258	50.214	61.606	1.00	0.00	H
ATOM	4046	HB3	MET	261	61.261	51.475	60.889	1.00	0.00	H
ATOM	4047	CG	MET	261	61.571	51.220	62.977	1.00	0.00	C
ATOM	4048	HG2	MET	261	62.121	52.161	63.006	1.00	0.00	H

ATOM 4049 HG3 MET 261 60.967 51.151 63.881 1.00 0.00 H
ATOM 4050 SD MET 261 62.743 49.849 62.968 1.00 0.00 S
ATOM 4051 CE MET 261 63.596 50.144 61.422 1.00 0.00 C
ATOM 4052 HE1 MET 261 64.454 49.475 61.350 1.00 0.00 H
ATOM 4053 HE2 MET 261 62.924 49.945 60.588 1.00 0.00 H
ATOM 4054 HE3 MET 261 63.938 51.178 61.383 1.00 0.00 H
ATOM 4055 C MET 261 58.997 52.549 60.434 1.00 0.00 C
ATOM 4056 O MET 261 58.064 51.805 59.974 1.00 0.00 O
ATOM 4057 OXT MET 261 59.583 53.439 59.788 1.00 0.00 O
TER 4057 MET 261
HETATM 4058 ZN ZN A 262 47.057 32.618 47.950 1.00 0.00 ZN
END