

Supporting Information

Mechanism of Melatonin Metabolism by CYP1A1. What Determines the Bifurcation Pathways of Hydroxylation Versus Deformylation?

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Methodology

Primary model preparation

CYP1A1 was selected as the main enzyme for this study. Currently, there were 3 PDB structures of CYP1A1 in the Protein Databank¹ which we analysed in detail. All three PDB structures are from human CYP1A1 origin and had different substrates bound. The chain A of the 6DWN² PDB structure was selected as it is the latest released structure and with good resolution. The pdb has erlotinib³ in the active site and its structure is the closest to the metabolism of melatonin. Melatonin was taken from PDB ML1⁴ and re-optimized using quantum mechanics methods in Gaussian-09⁵ with neutral charge and singlet multiplicity. The optimised structure of melatonin was converted to a PDB file with the Antechamber⁶ software package provided on AmberTools 2018⁶. The CYP1A1 structure was modified by removing erlotinib and the heme iron complex was changed into compound I by adding an oxygen atom over the central iron atom with bond length 1.686 Å and an water molecule was added nearby heme and I helix. All modifications were done on Chimera⁷. The optimised melatonin geometry was docked into the active site of the modified CYP1A1 structure by AutoDock Vina⁸. The docking resulted in 4 low-energy models whereby the orientation of the substrate was different. The grid boxes were adjusted manually which were generally placed into the centre of enzyme active site containing Compound I, I helix and G helix. The maximum energy difference between the best binding mode and the worst one was set to 2 kcal/mol. The maximum number of binding modes was set to 10. The four low-energy binding poses were selected and used for further MD studies.

Apart from structures of CYP1A1 with CpdI and substrate, we also created a product complex of methoxy-hydroxylated melatonin with an iron(III)-heme complex. Docking of methoxy-hydroxylated melatonin in the structure gave eight low-energy conformations that were subjected to MD simulations.

MD simulation

As the structure contains a metal atom in the Compound I state, the iron-ligand parameters had to be optimised for the forcefield that was used. This process made sure that the iron atom maintained 6 ligands, including 4 bonds to the heme, 1 ligand to the oxygen atom and 1 ligand to the axial cysteinate on the L helix. The MCPB.py⁹ and Gaussian software packages were used to obtain the correct forcefield parameters for the ferryl core of the heme and nearby atoms in the porphyrin. Amber's Antechamber utility was applied to generate MD parameters for Compound I and melatonin substrate. Amber's tleap software package was applied to solvate the selected models in TIP3P¹⁰ water and to generate the correct topology file to conduct MD simulations using the ff14SB¹¹ force field. For each complex, a rectangular box with 10 Å distance between the box edges and the protein was considered, resulting in around 14,600 water molecules for each system. Na⁺ and Cl⁻ ions were added to neutralize the system. Minimization, heating, and MD productions were all performed with Amber's pmemd¹² utility. Minimization of each structure was carried out in only one step without restrains by setting steepest descent to 2000 cycles. Heating of each structure was heated up from 0 to 310 K by 100 ps. Finally, an MD production run was performed for 100 ns under constant temperature and pressure conditions at 310 K and 1 bar by running 20 times of 5 ns simulation.

QM model preparation

The calculated structures of model I to IV were analysed by python-based software packaged named Pytraj.py¹³. The model visualisation was presented by VMD¹⁴. The following values were extracted from the topologies and trajectories files:

Binding pose: binding poses were collected from the production of MD simulation in order to check the changes of the substrate orientation and residue interaction at 60 ns, 80 ns and 100 ns because after 50 ns all models had stable structures with the RMSDs.

RMSD: the Root Mean Square Deviation (RMSD) of the structural changes for each model from the MD runs were analysed and we made sure that the protein had equilibrated. RMSD values were also checked for specific residues within the protein as well as for the full system.

Bond length: bond lengths of the specific atoms were extracted in order to get the information for model selection for the QM calculations.

Hydrogen bonds: during the MD simulations from 0 ns to 100 ns, the substrate often was seen to interact with nearby residues. Hydrogen bonding interactions were extracted from the MD runs to establish if the melatonin was in a specific orientation and stayed rigid or not. Melatonin was treated as donor and acceptor. Based on these structures some hydrogen bonds were deemed important and were included in the QM active site cluster.

Overall structure visualisation: after the MD simulations a cluster model was created and studied in Gaussian-09 with density functional theory methods. The output files were visualized in Chemcraft¹⁵.

QM calculations

The active site models of CYP1A1 were calculated in Gaussian09. The models with Compound I, which include Fe atom, were carried out by hybrid basis sets including:

- Basis set 1 (BS1): UB3LYP 6-31G* : C, H, O, N, and S // LANL2DZ+ECP: Fe
- Basis set 2 (BS2): UB3LYP 6-311+G* : C, H, O, N, and S // LANL2DZ+ECP: Fe
- Basis set 3 (BS3): UB3LYP 6-311+G* : C, H, O, N, and S // cc-pVTZ : Fe

The models with and without Fe atom were calculated in the doublet and quartet spin states with -2 charge, and singlet multiplicities with neutral charge respectively. We ran geometry optimizations for reactants, intermediates and products, as well as transition states. The optimised models were calculated with method BS1 and followed by a single point calculation at level BS2, solvation. The scanning calculation was performed by BS1 on quintet multiplicities. The frequency calculation was carried at temperature = 298.15 K (25°C).

Data analysis

The deep analysis was carried by Python¹⁶ and R¹⁷ based scripts on a Jupyter-notebook¹⁸ and R studio¹⁹ respectively. In addition, the presented data was extracted by data-mining python software. The tunnels occurring the MD simulation were

analysed by the CAVER²⁰. The tunnels were reported with their lengths and widths in angstroms.

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Primary model preparation

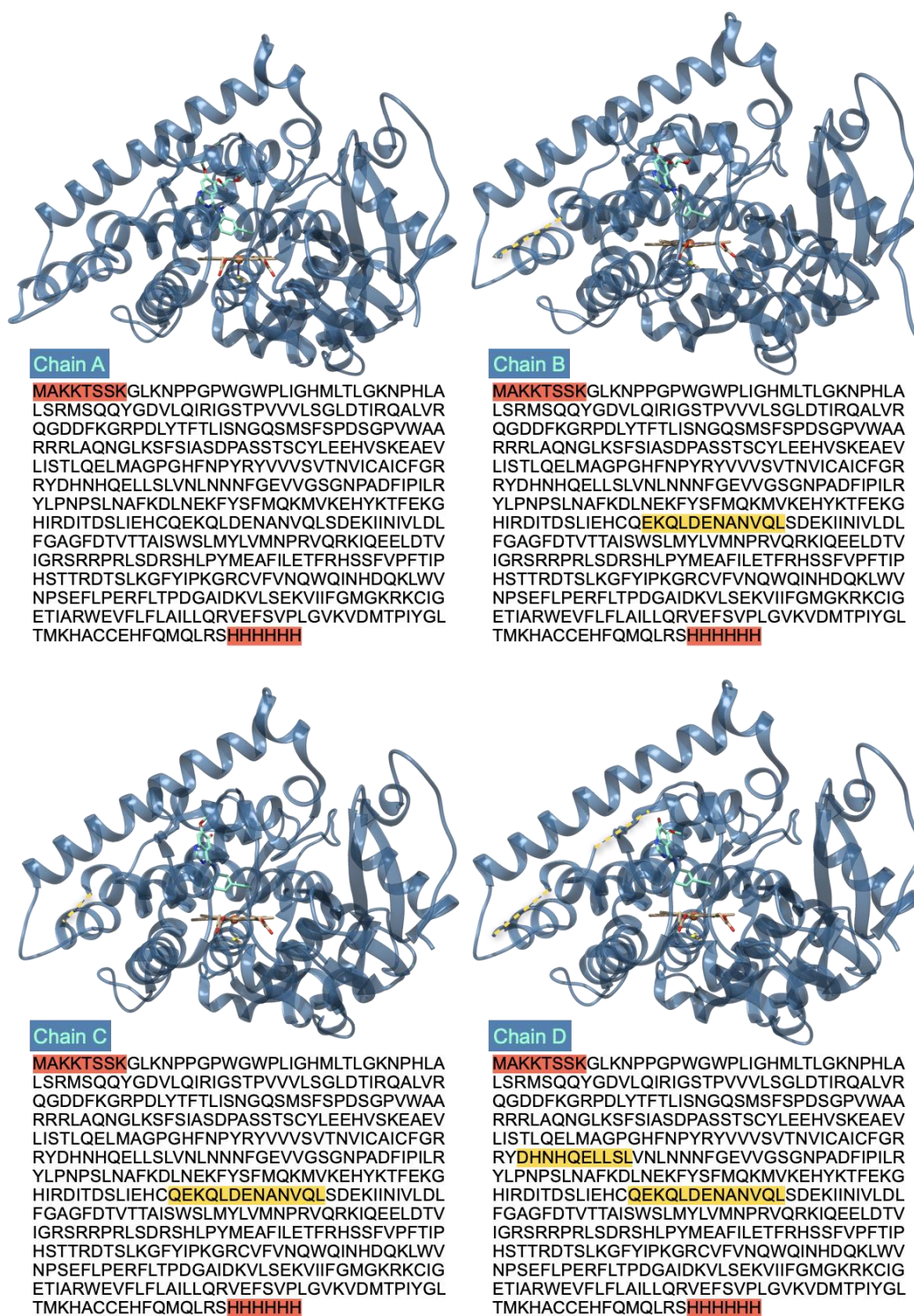


Figure S1. Extracts of the 6DWN PDB file. There are chain A to D. The chain A was used in this work by removing the existing substrate, Erlotinib. The residue sequences of chain A, B, C and D of 6DWN enzyme. Each chain has 512 residues. The missing residues in the middle and terminus are highlighted in yellow and red respectively.

MD simulation results.

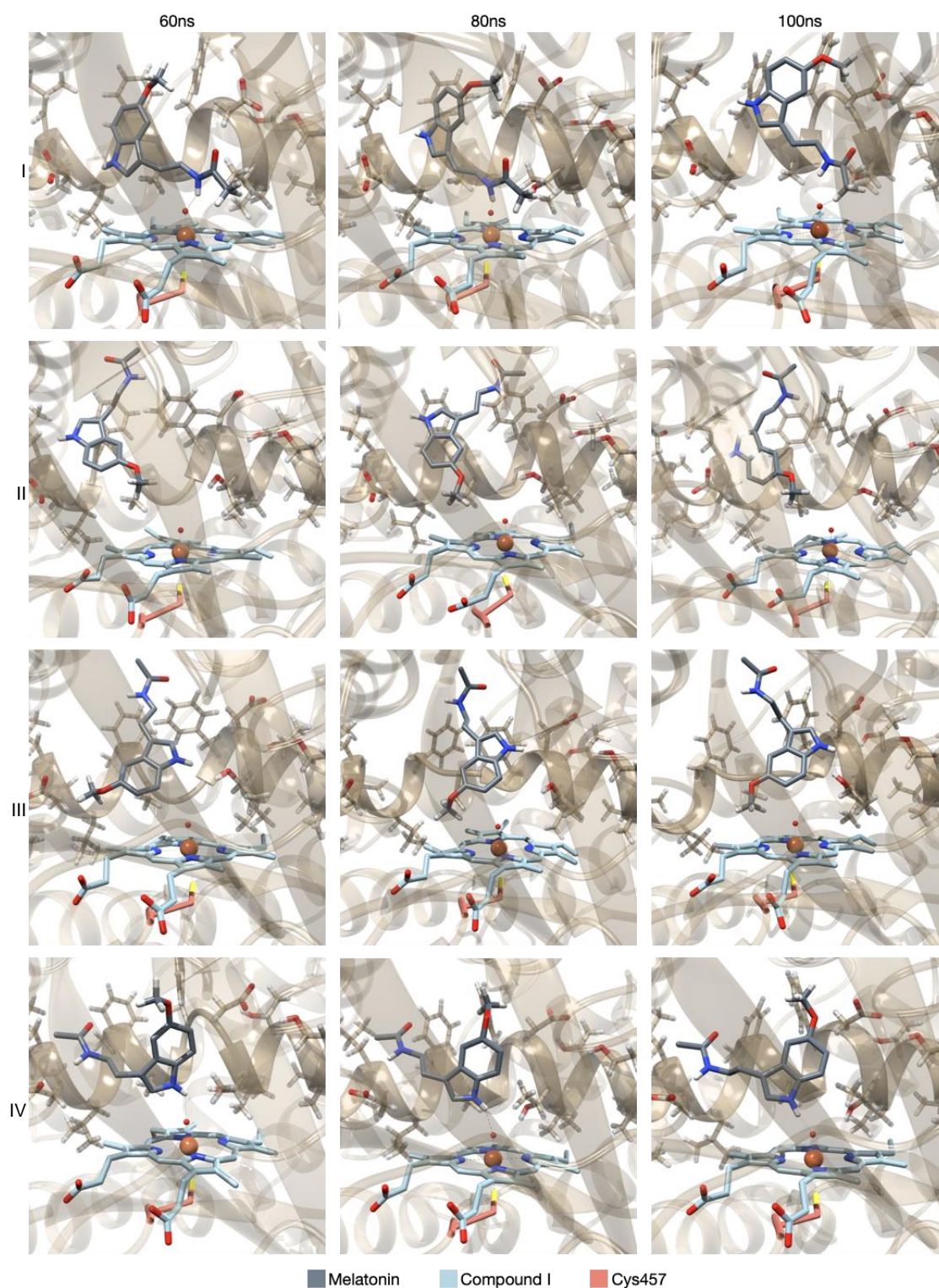


Figure S2. Selected binding poses of substrate versus CpdI as obtained from snapshots after 60, 80 or 100 ns from the MD simulations for CYP1A1 with melatonin with substrate starting orientation I, II, III and IV. Each MD was calculated from AutoDock Vina. The docking scores for each model were -9.4, -8.5, -6.5 and -7.0.

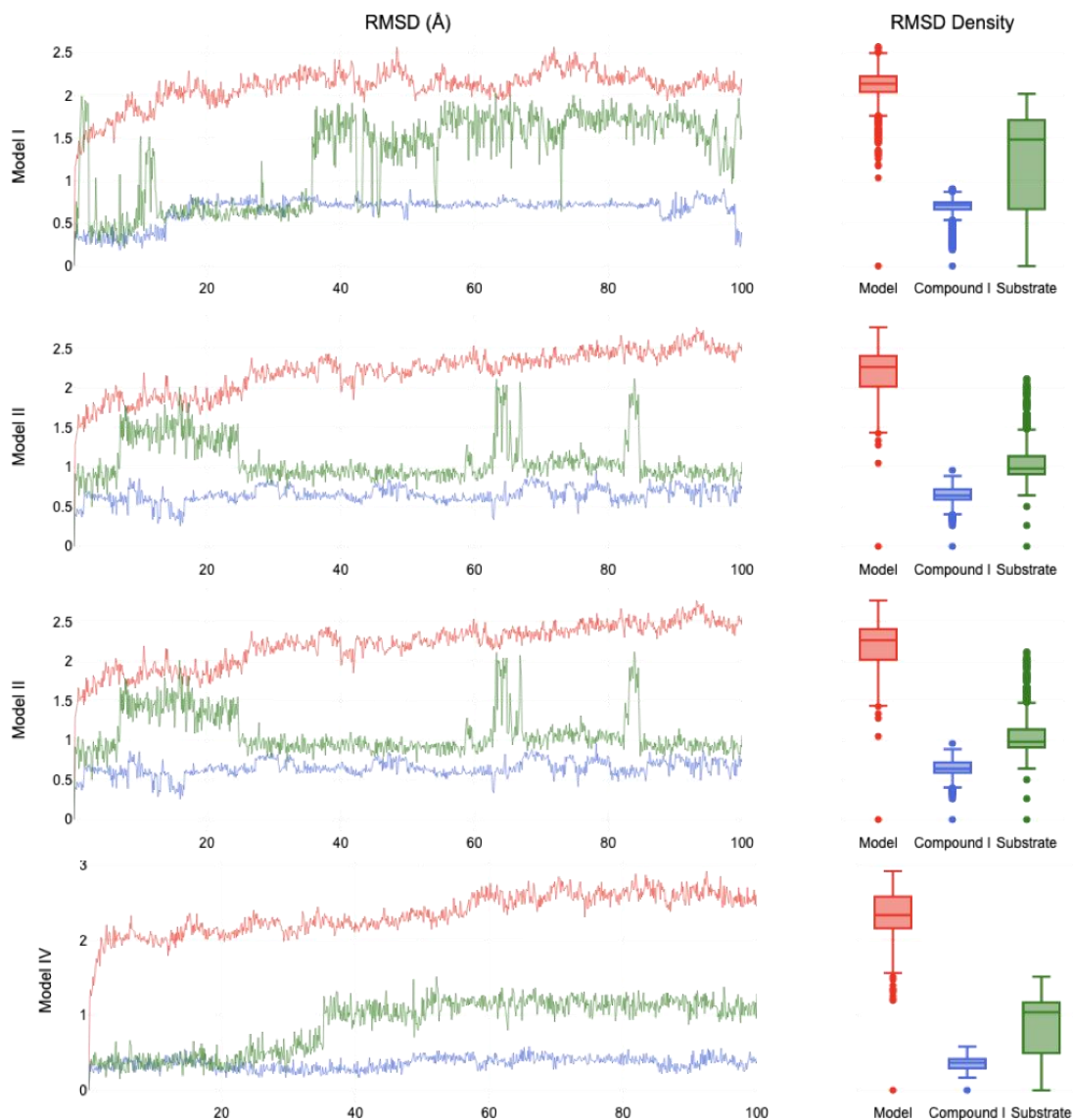


Figure S3. RMSD plots obtained from the MD simulations for CYP1A1 with melatonin with substrate starting orientation **I**, **II**, **III** and **IV** during a 100 ns MD calculation. The right-hand-side shows the individual RMSD values of the whole model (in red), Compound I only (in blue) and substrate only (in green).

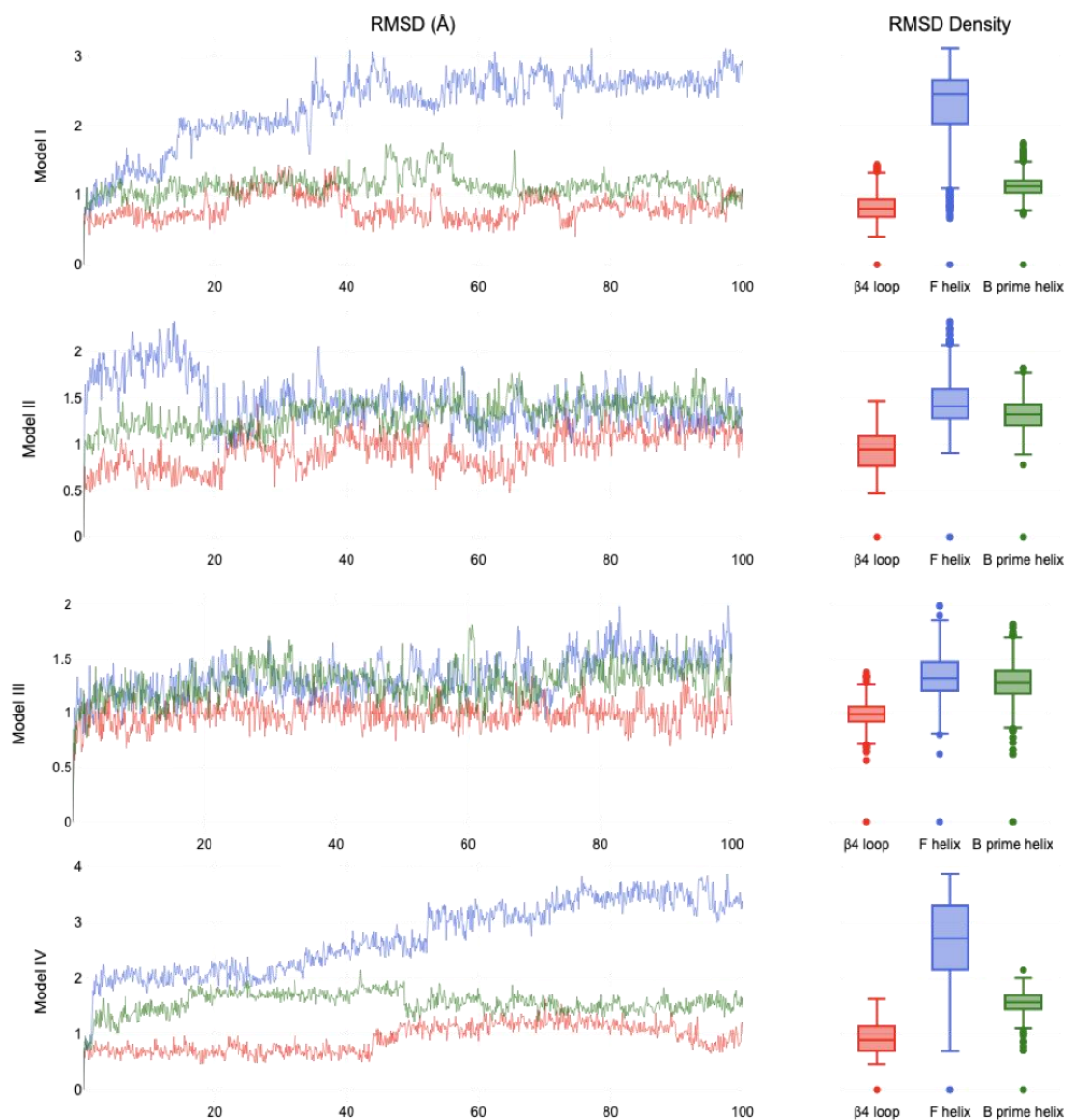


Figure S4. RMSD plots obtained from the MD simulations for CYP1A1 with melatonin with substrate starting orientation **I**, **II**, **III** and **IV** during a 100 ns MD calculation focusing on the change of the protein helices. The right-hand-side shows the individual RMSD values of the β 4 loop (in red), the F-helix (in blue) and the B' helix (in green).

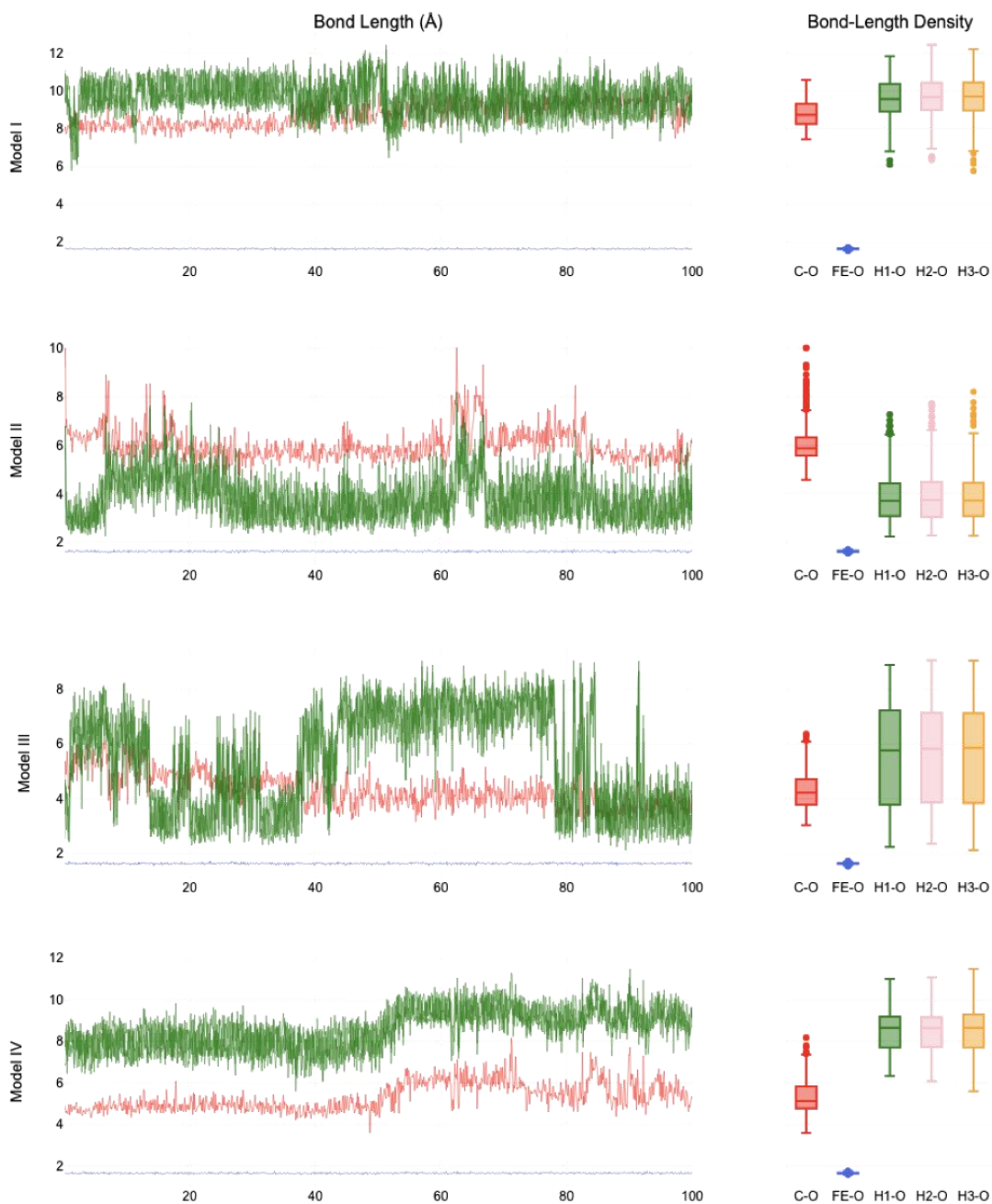


Figure S5. Bond length changes of key interactions obtained from the MD simulations for CYP1A1 with melatonin with substrate starting orientation **I**, **II**, **III** and **IV** during a 100 ns MD calculation. The right-hand-side shows the individual bond lengths for the C⁶-O distance (in red), Fe-O distance (in blue), and the three methoxy H-O distances (in green, pink and yellow).

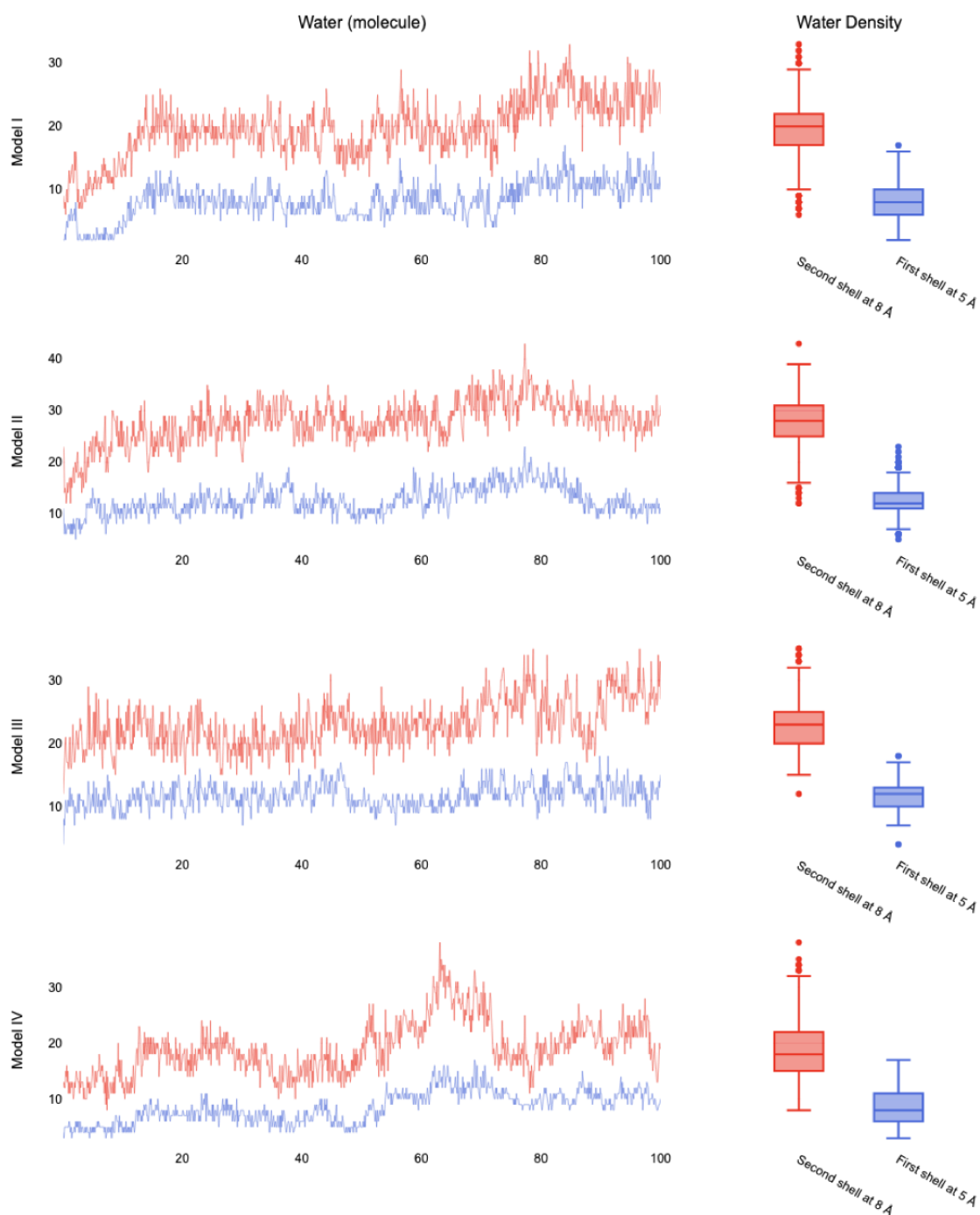


Figure S6. Protein solvation analysis obtained from the MD simulations for CYP1A1 with melatonin with substrate starting orientation **I**, **II**, **III** and **IV** during a 100 ns MD calculation focusing on the change of the protein helices. The right-hand-side counts the number of water molecules within a radius of CpdI of 5 Å (in blue) and within 8 Å (in red).

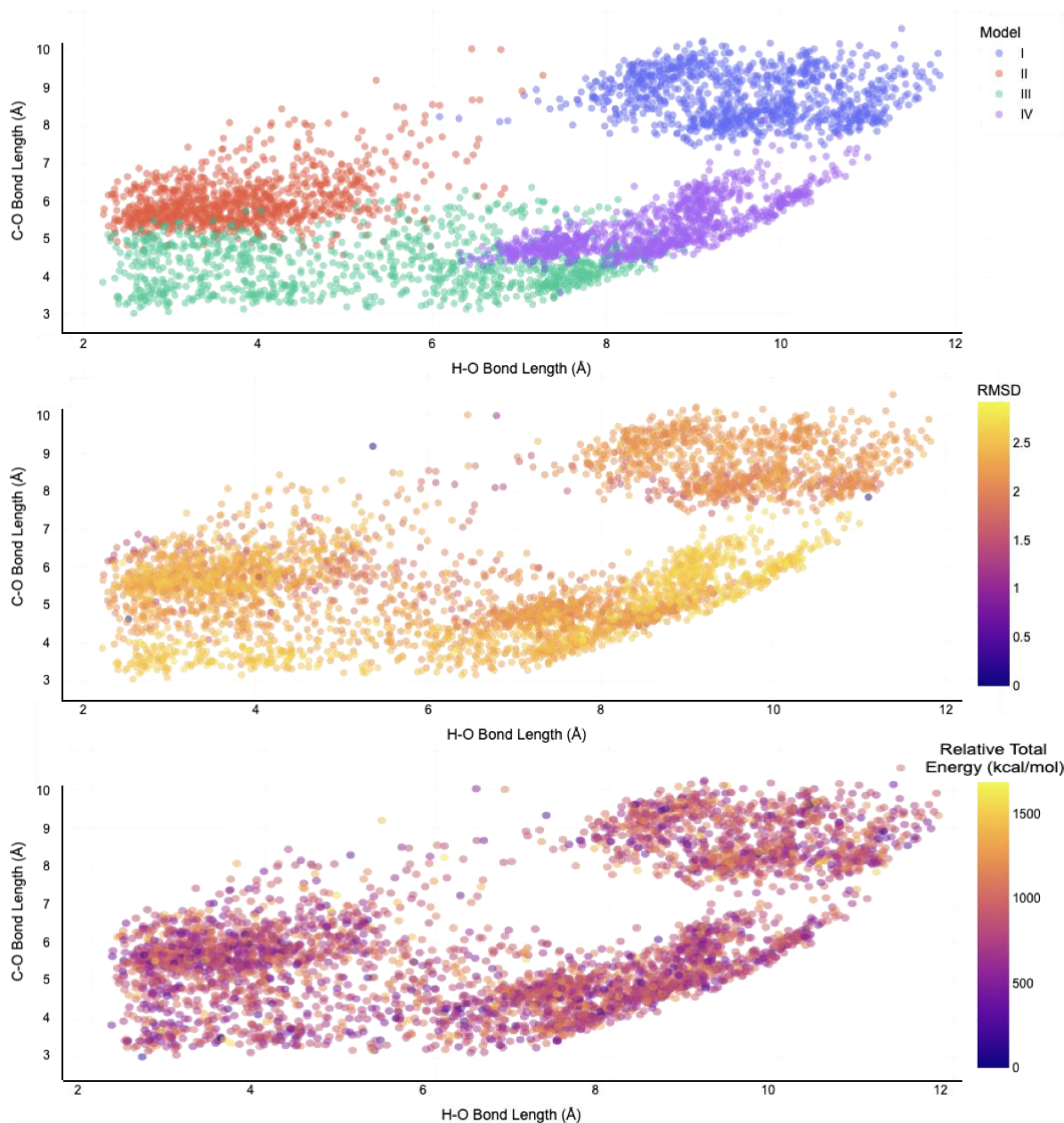


Figure S7. Analysis of position and orientation of the substrate with respect to CpdI from the MD simulations on CYP1A1 with melatonin with substrate starting orientation I, II, III and IV during a 100 ns. (a) Distance distribution from MD results of reactant models. The x-axis is the bond length between the hydrogen atom of the methoxy side chain of melatonin and the oxygen atom of Compound I, while the y-axis is the bond length between the carbon atom (C⁶) of melatonin and the oxygen atom of Compound I. (b) RMSD value for individual snapshots. (c) Total energy of individual snapshots.

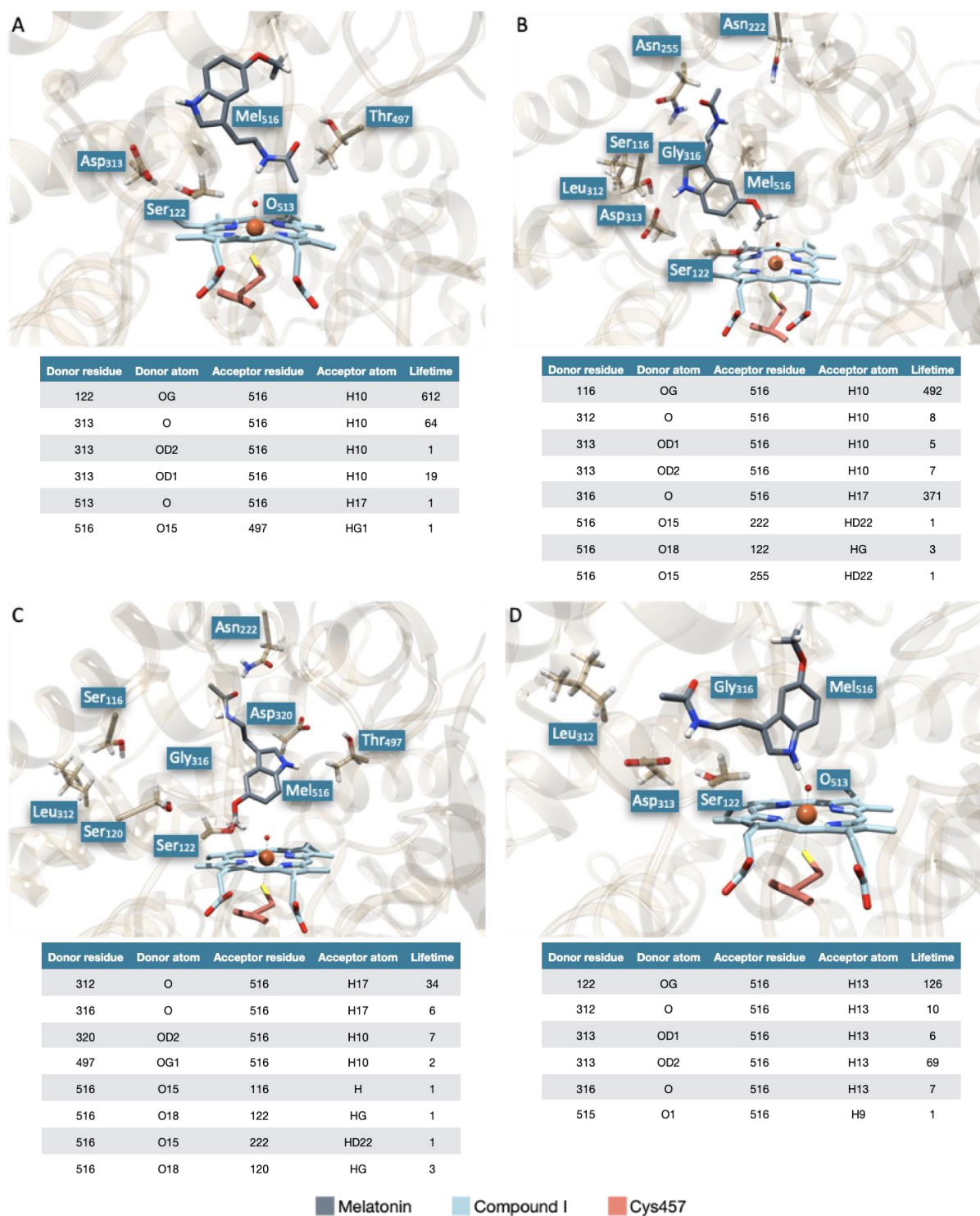


Figure S8. Key hydrogen bonding interactions of the substrate in the substrate-binding pocket of CYP1A1 as listed for model I (part A), II (part B), III (part C), and IV (part D). Data obtained from the MD simulations. Lifetime is the occurrence of each hydrogen bonds presented in frame from 1000 frames simulated by 100 ns.

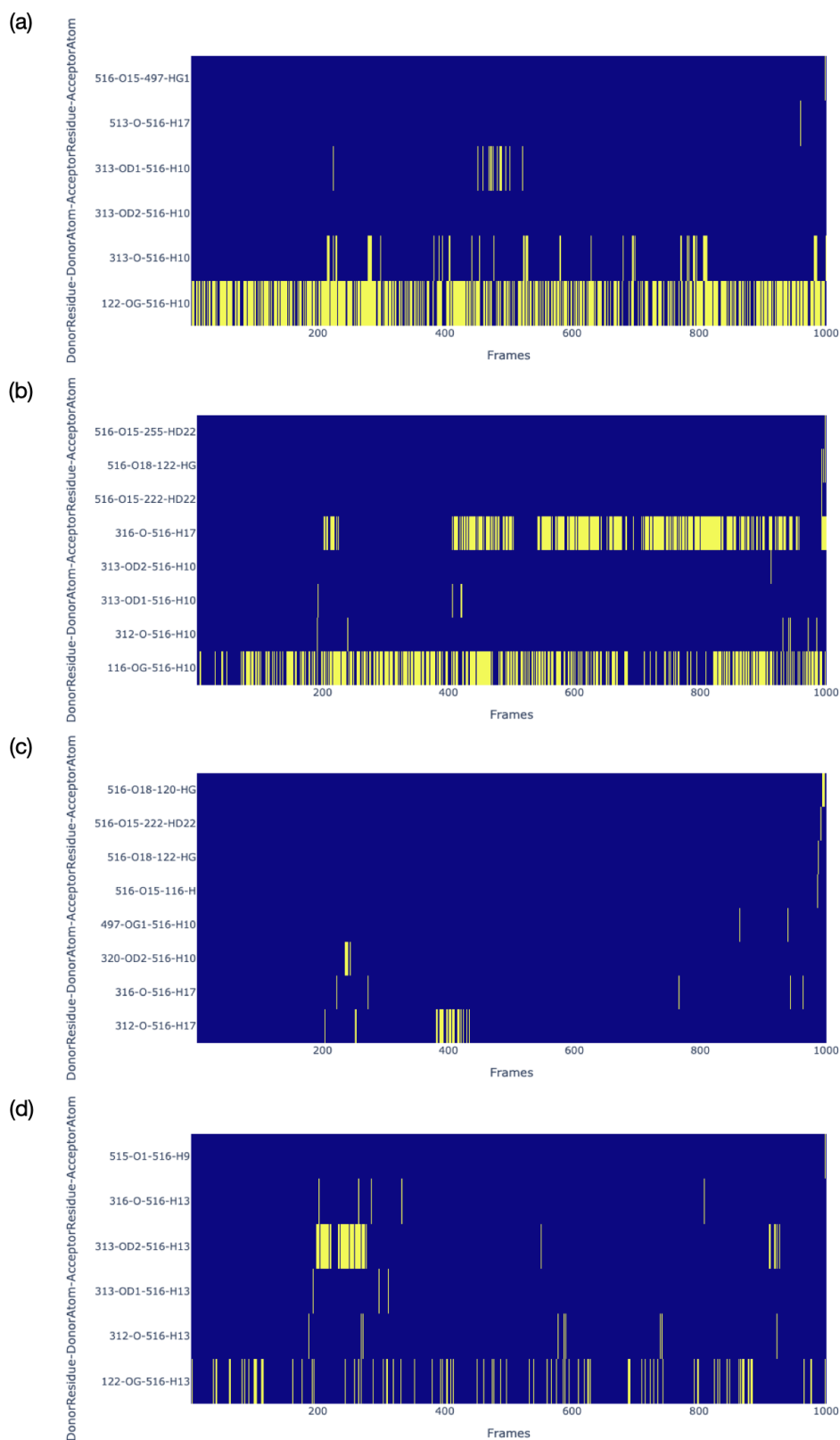


Figure S9. Selected hydrogen bonds and their lifetime during the MD simulations. Yellow and blue mean appear and disappear. The hydrogen bonds are also listed in Fig S8.

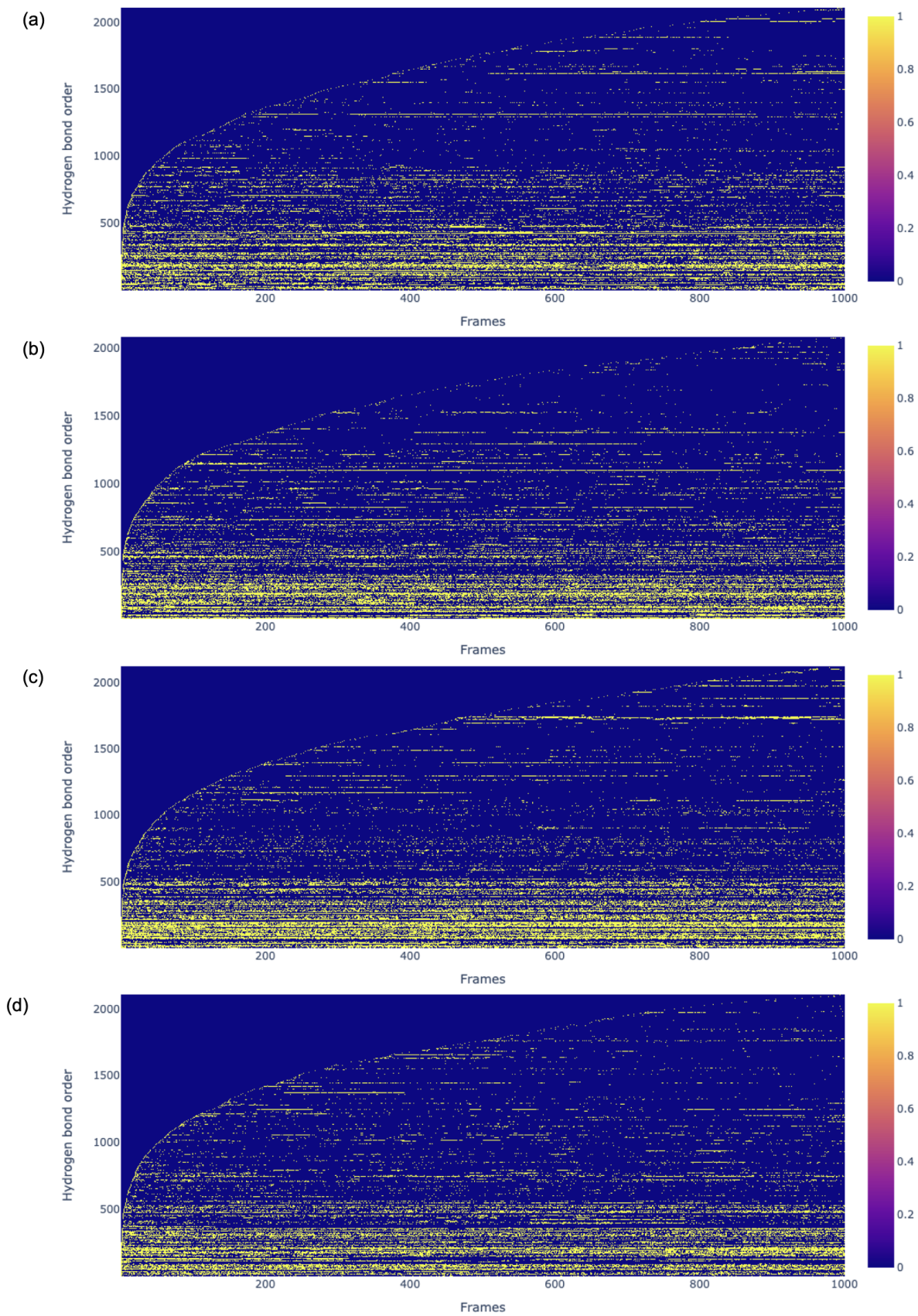


Figure S10. Hydrogen bonds and their lifetime during the MD simulations. Yellow and blue mean appear and disappear. The list of hydrogen bonds are presented at the end of this SI.

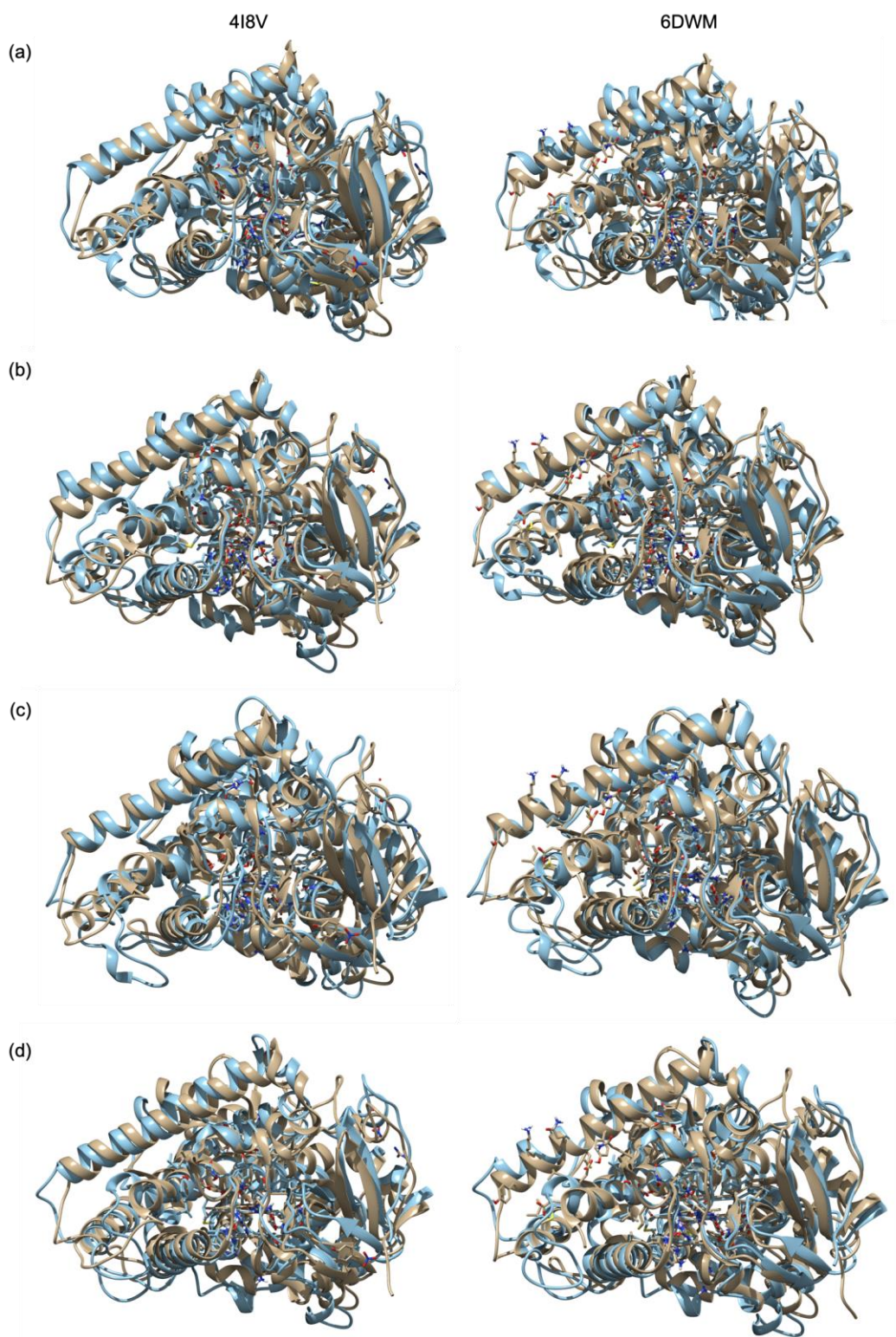


Figure S11. Overlay of the pdb from 4 model calculatd by MD and the CYP1A1 pdbs of previous studies.

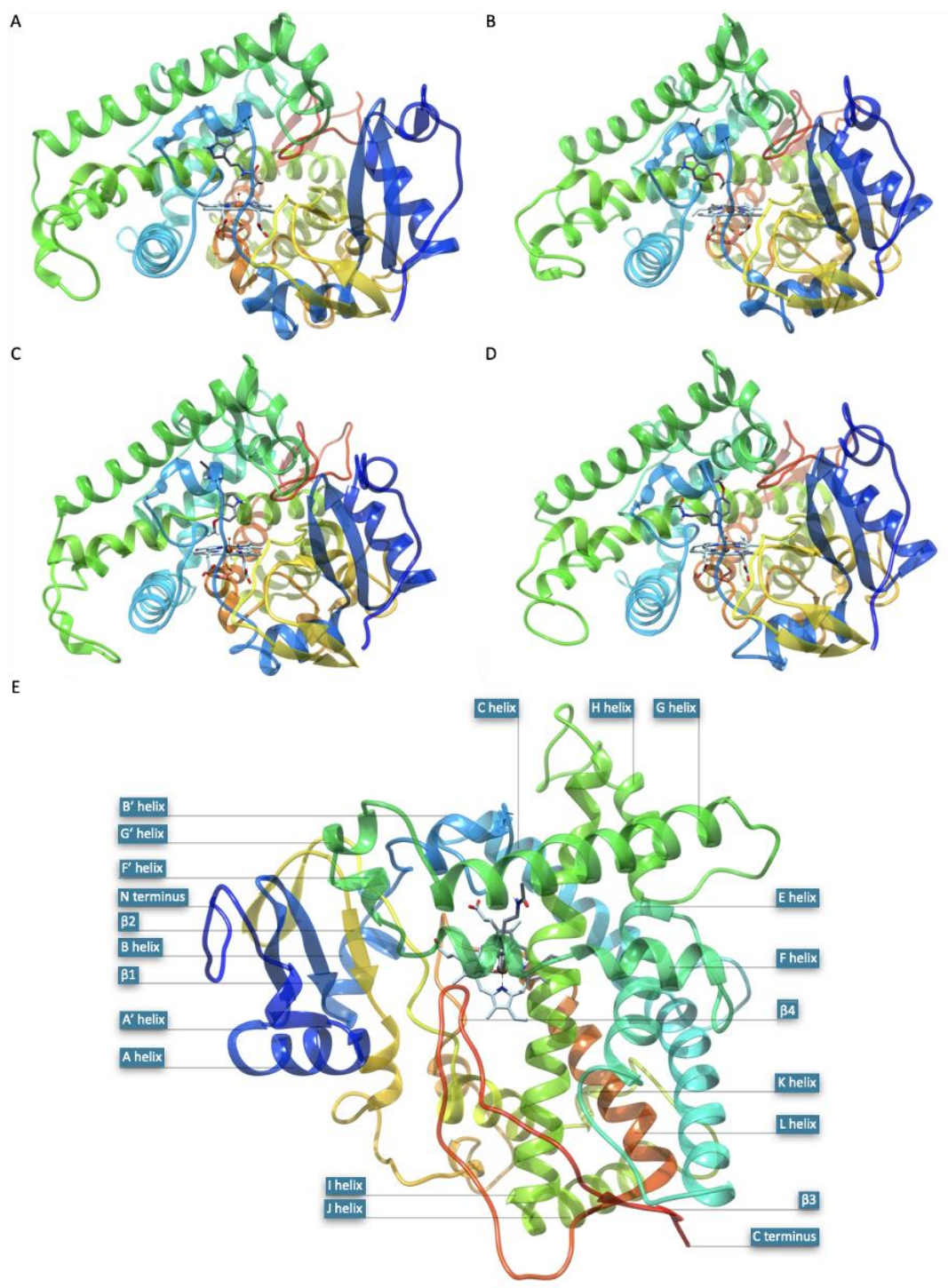


Figure S10. Overall structures of each model from the MD simulation: Model I (part A), Model II (part B), Model III (part C) and Model IV (part D). CYP1A1 coloured from blue at the N terminus to red at the V terminus with compound I as light blue and melatonin as grey sticks (A-D). Helix definitions (from Poulos, T. L. Heme Enzyme Structure and Function. *Chem. Rev.* **2014**, *114*, 3919-3962) of CYP1A1 are shown in part E.

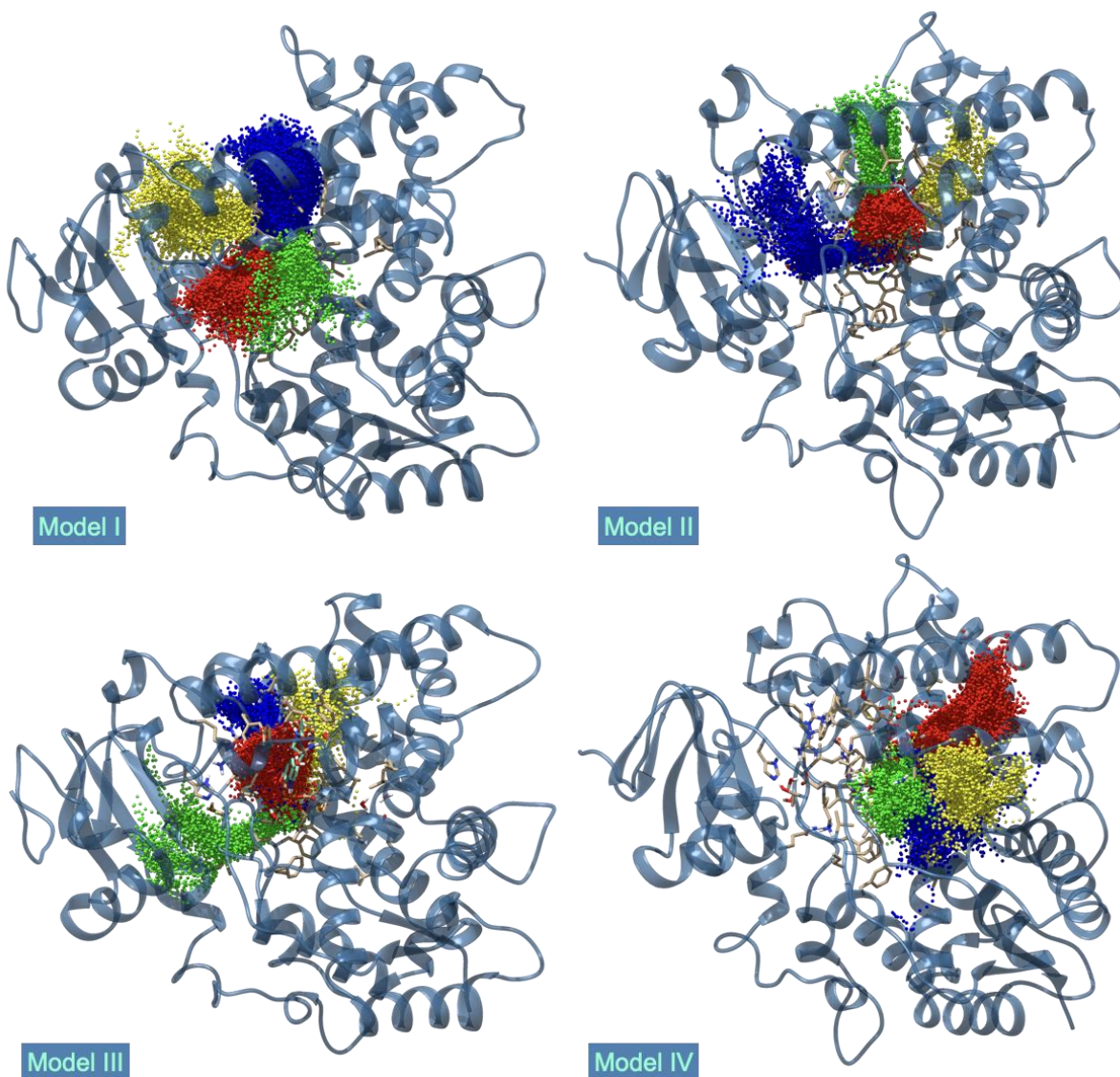


Figure S11. Tunneling analysis for the entrance and exit channels leading to CpdI as obtained from the individual snapshots from the MD simulations on CYP1A1 with melatonin with substrate starting orientation **I**, **II**, **III** and **IV** during a 100 ns. The top 4 channels are presented in red, blue, green and yellow for each of the models.

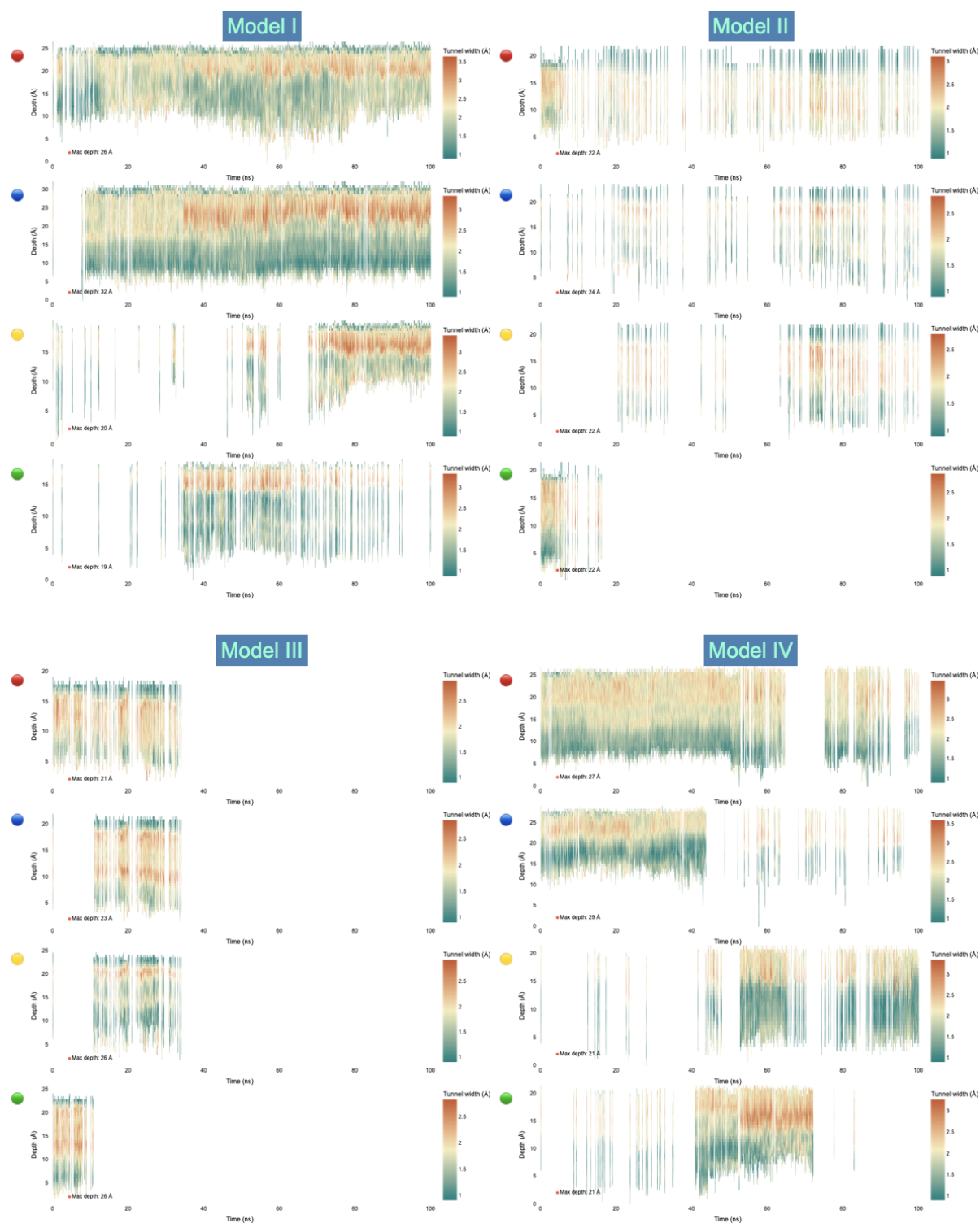


Figure S12. Tunneling analysis for the entrance and exit channels leading to Cpd1 as obtained from the individual snapshots from the MD simulations on CYP1A1 with melatonin with substrate starting orientation I, II, III and IV during a 100 ns. The details of top 4 channels from tunnel analysis for each model from the MD simulation are shown.

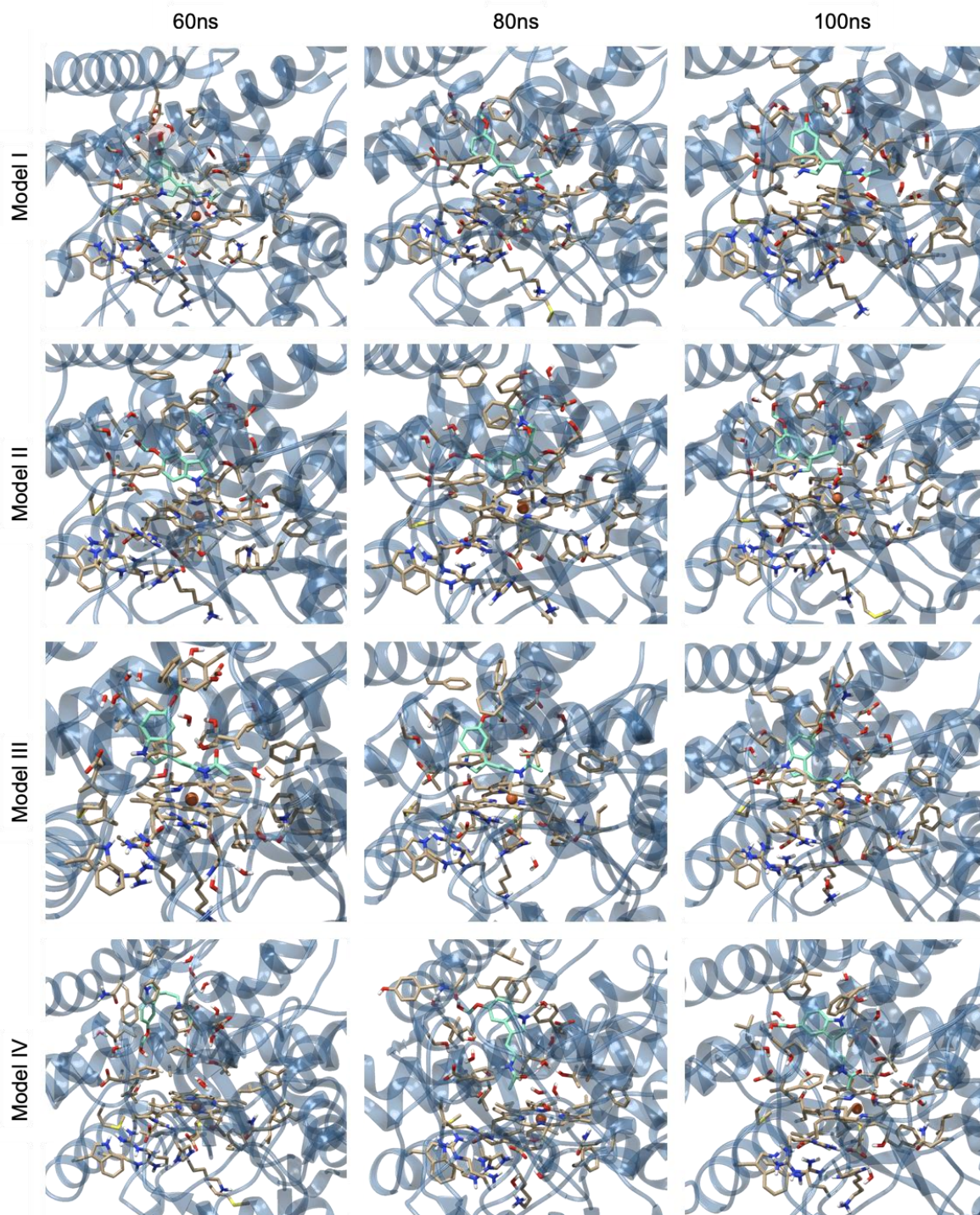


Figure S13. Selected binding poses of *O*-methoxy hydroxylated product versus heme as obtained from snapshots after 60, 80 or 100 ns from the MD simulations for CYP1A1 with melatonin with substrate starting orientation I, II, III and IV. Each MD was calculated from AutoDock Vina. The docking scores for each model were -10.1, -7.5, -9.0 and -5.2.

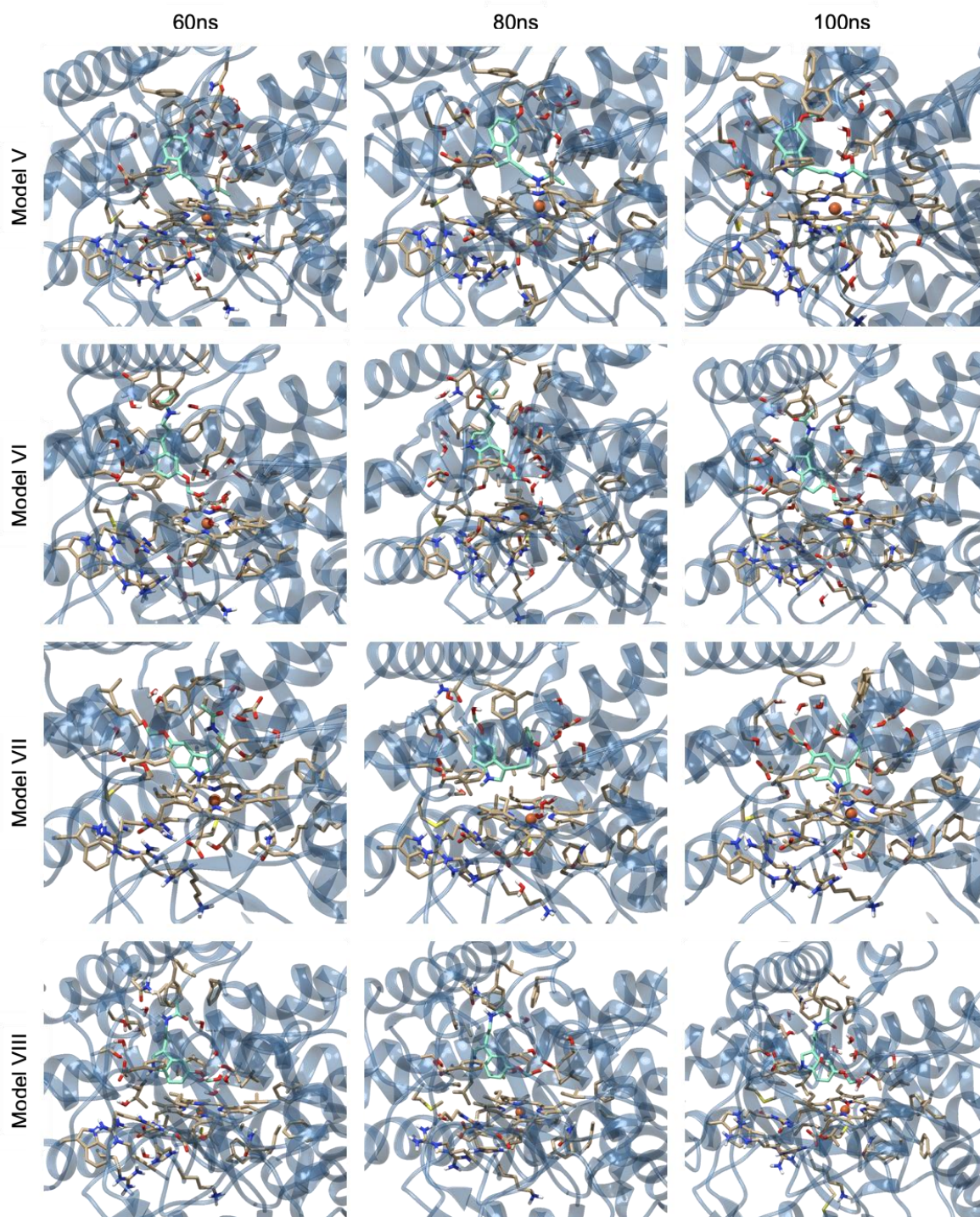


Figure S14. Selected binding poses of O-methoxy hydroxylated product versus heme as obtained from snapshots after 60, 80 or 100 ns from the MD simulations for CYP1A1 with melatonin with substrate starting orientation **V**, **VI**, **VII** and **VIII**. Each MD was calculated from AutoDock Vina. The docking scores for each model were -6.7, -8.8, -6.8 and -9.0.

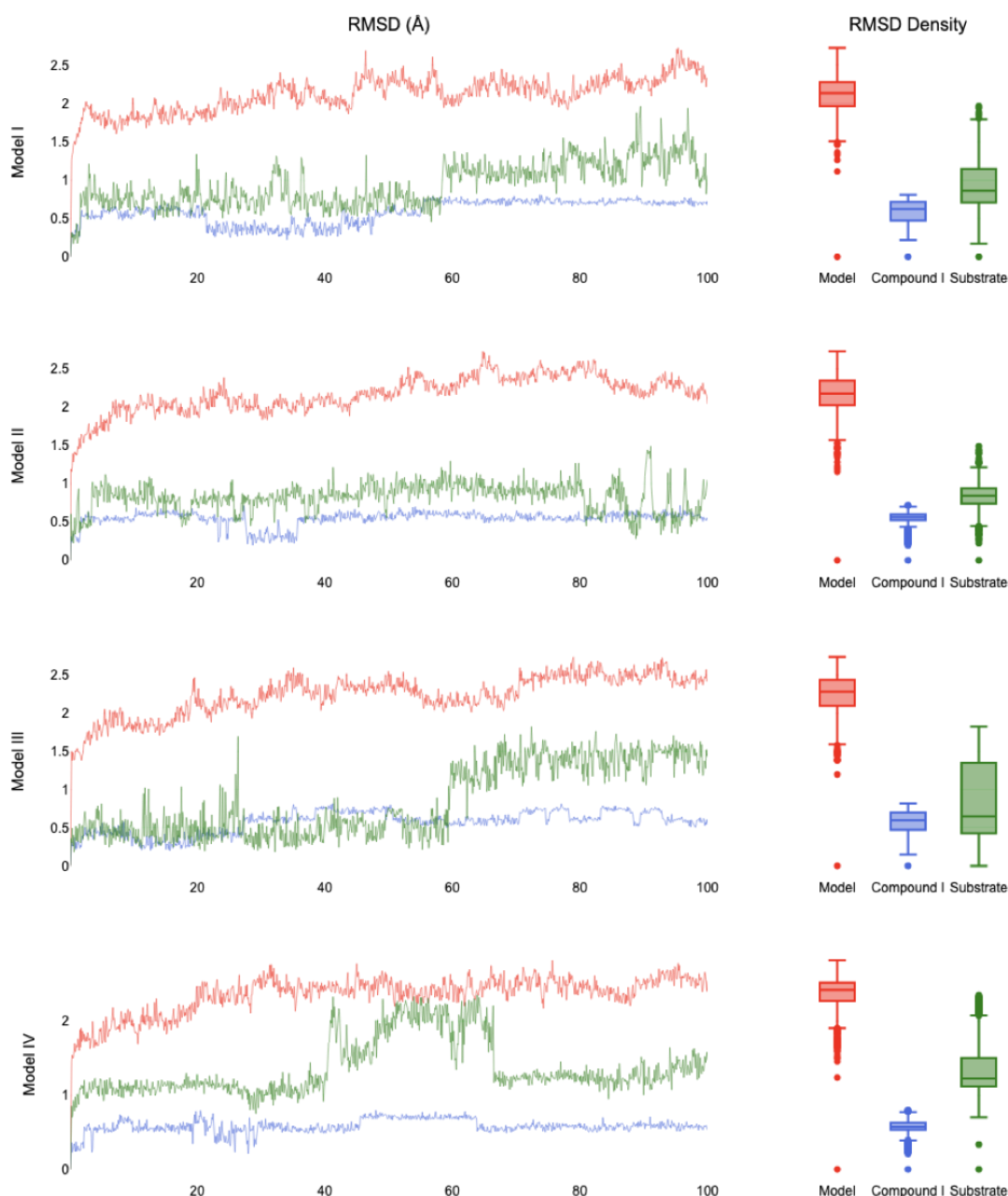


Figure S15. RMSD plots obtained from the MD simulations for O-methoxy hydroxylated product versus heme starting orientation I, II, III and IV during a 100 ns MD calculation. The right-hand-side shows the individual RMSD values of the whole model (in red), Compound I only (in blue) and substrate only (in green).

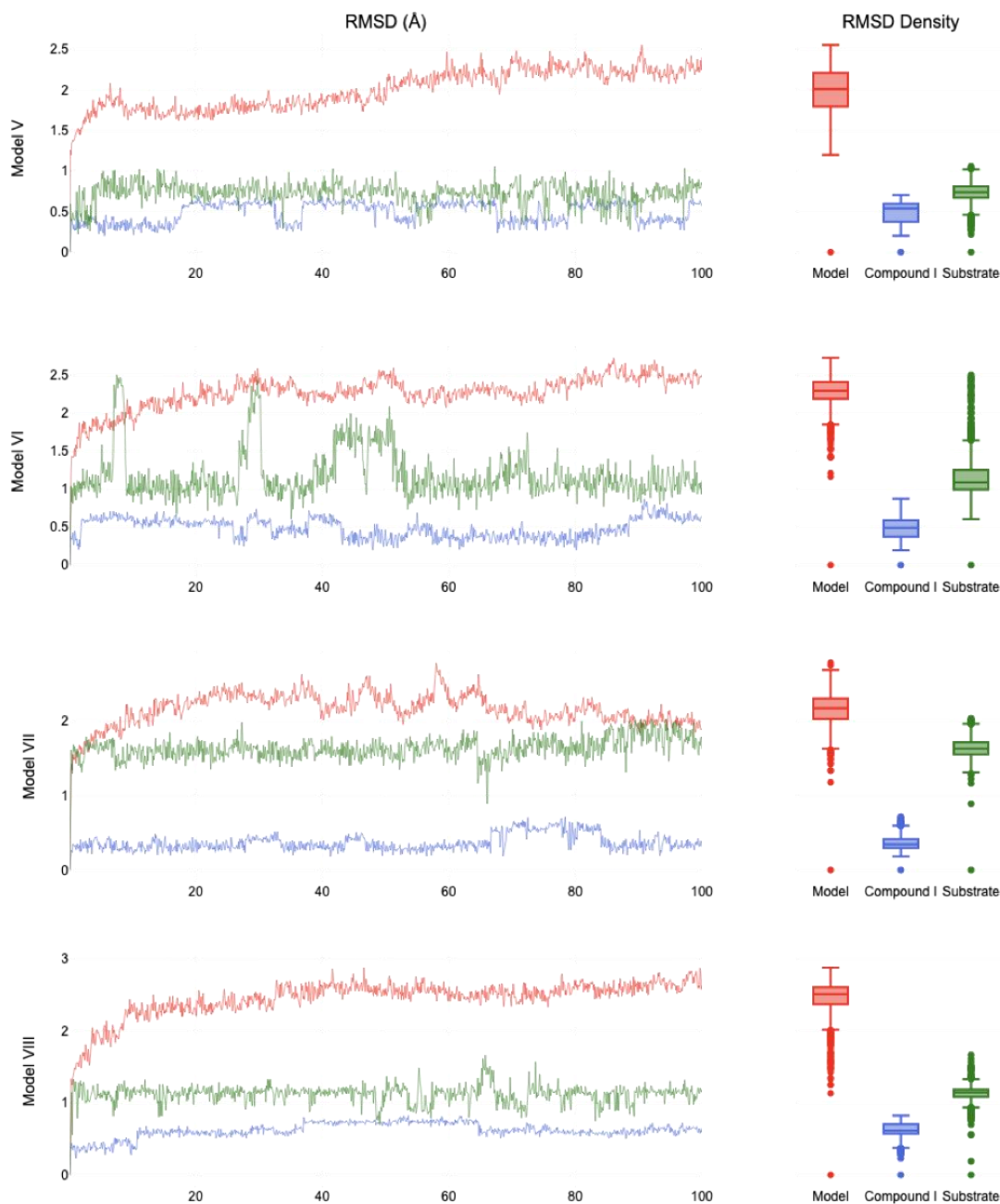


Figure S16. RMSD plots obtained from the MD simulations for *O*-methoxy hydroxylated product versus heme starting orientation **V**, **VI**, **VII** and **VIII** during a 100 ns MD calculation. The right-hand-side shows the individual RMSD values of the whole model (in red), Compound I only (in blue) and substrate only (in green).

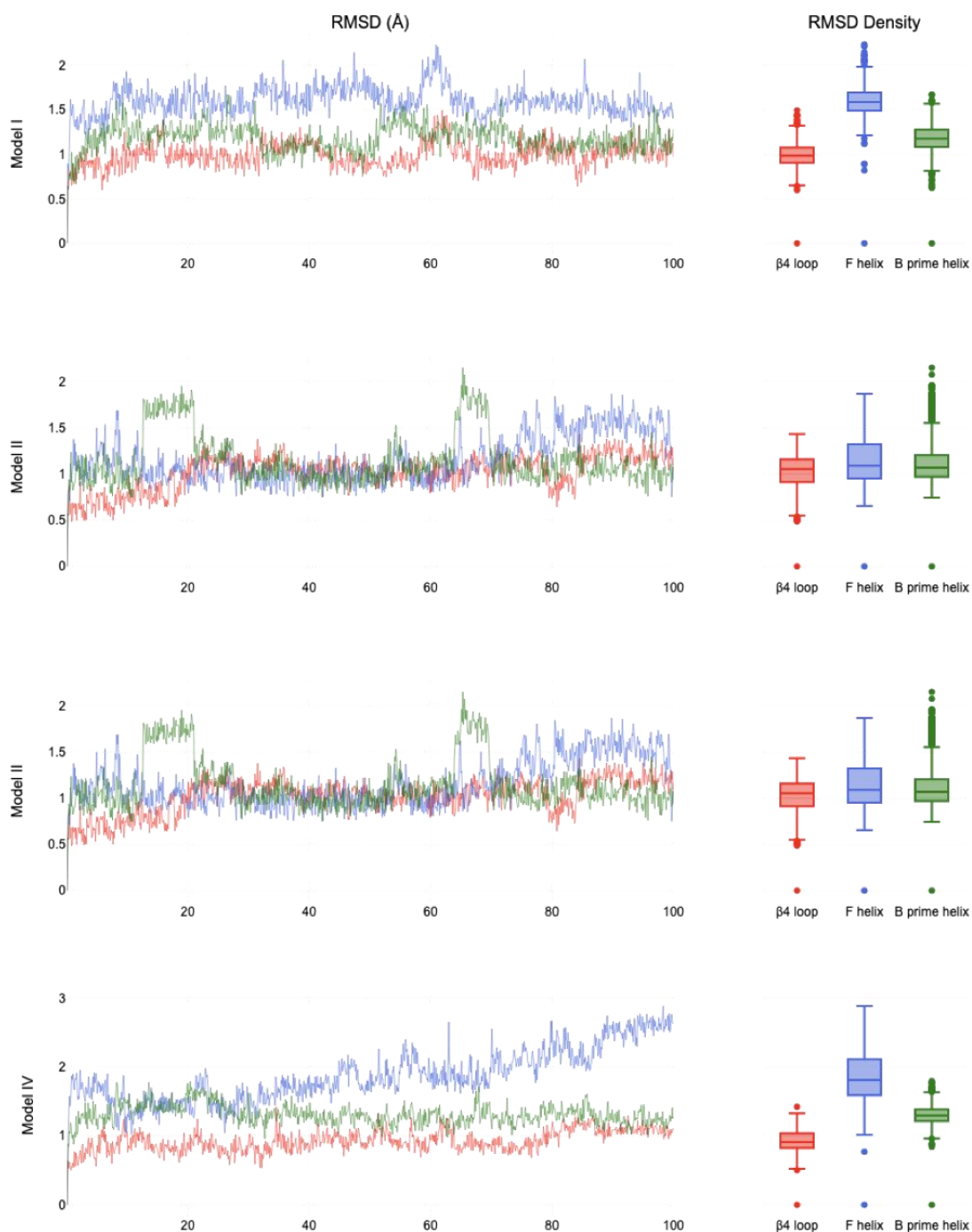


Figure S17. RMSD plots obtained from the MD simulations for *O*-methoxy hydroxylated product versus heme starting orientation **I**, **II**, **III** and **IV** for a 100 ns MD calculation focusing on the change of the protein helices. The right-hand-side shows the individual RMSD values of the $\beta 4$ loop (in red), the F-helix (in blue) and the B' helix (in green).

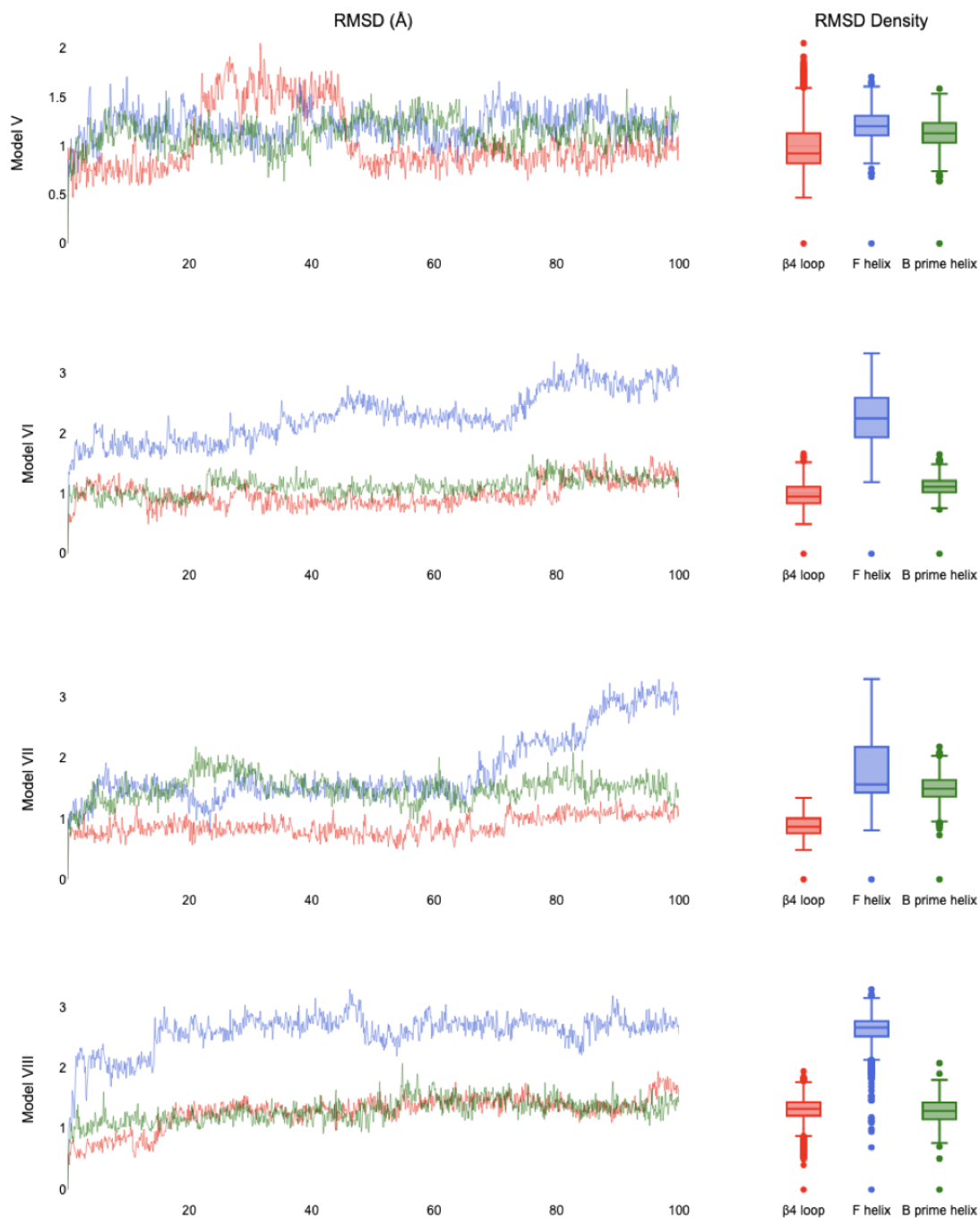


Figure S18. RMSD plots obtained from the MD simulations for *O*-methoxy hydroxylated product versus heme starting orientation **V**, **VI**, **VII** and **VIII** for a 100 ns MD calculation focusing on the change of the protein helices. The right-hand-side shows the individual RMSD values of the $\beta 4$ loop (in red), the F-helix (in blue) and the B' helix (in green).

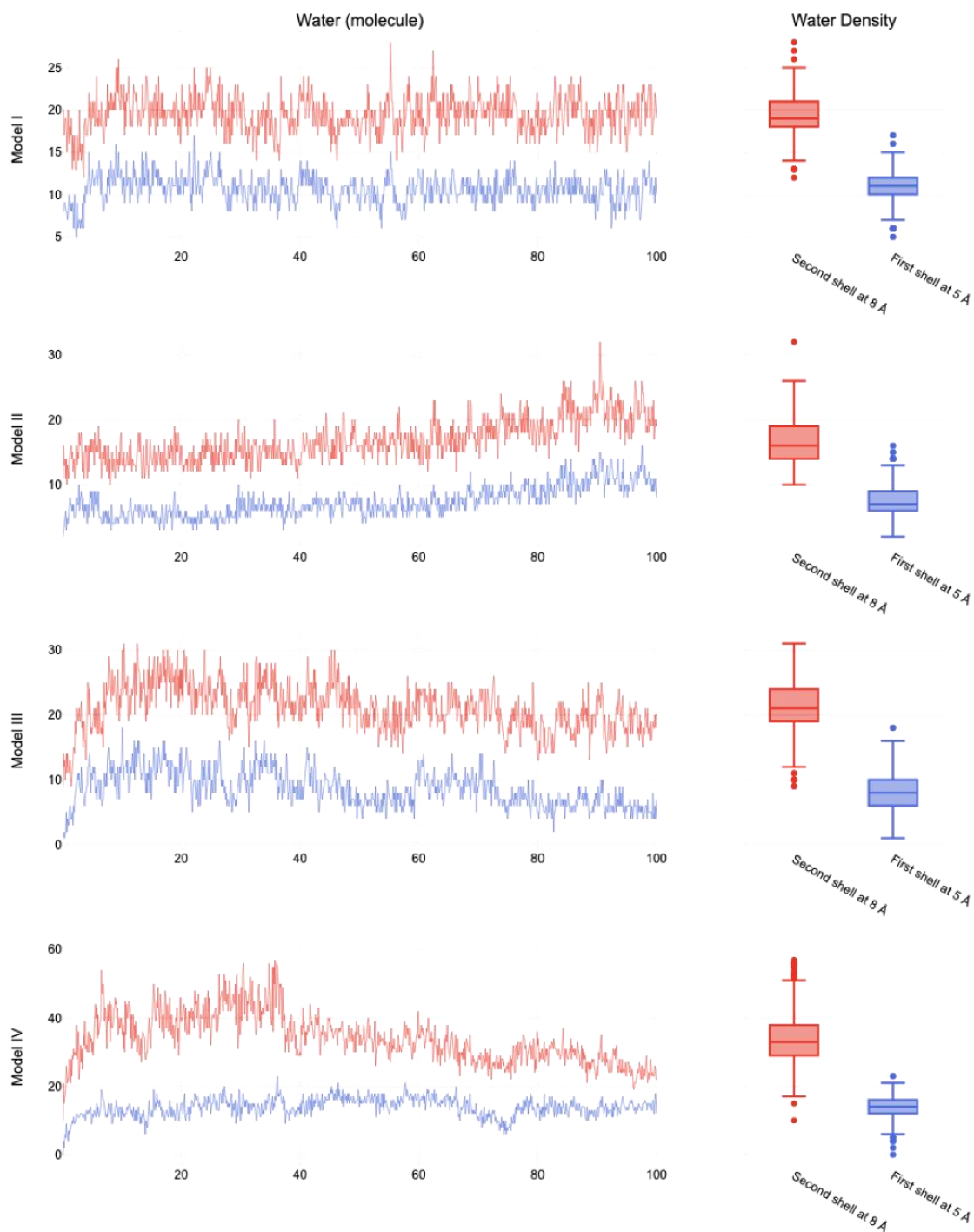


Figure S19. Protein solvation analysis obtained from the MD simulations for O-methoxy hydroxylated product versus heme starting orientation I, II, III and IV during a 100 ns MD calculation focusing on the change of the protein helices. The right-hand-side counts the number of water molecules within a radius of Cpdl of 5 Å (in blue) and within 8 Å (in red).

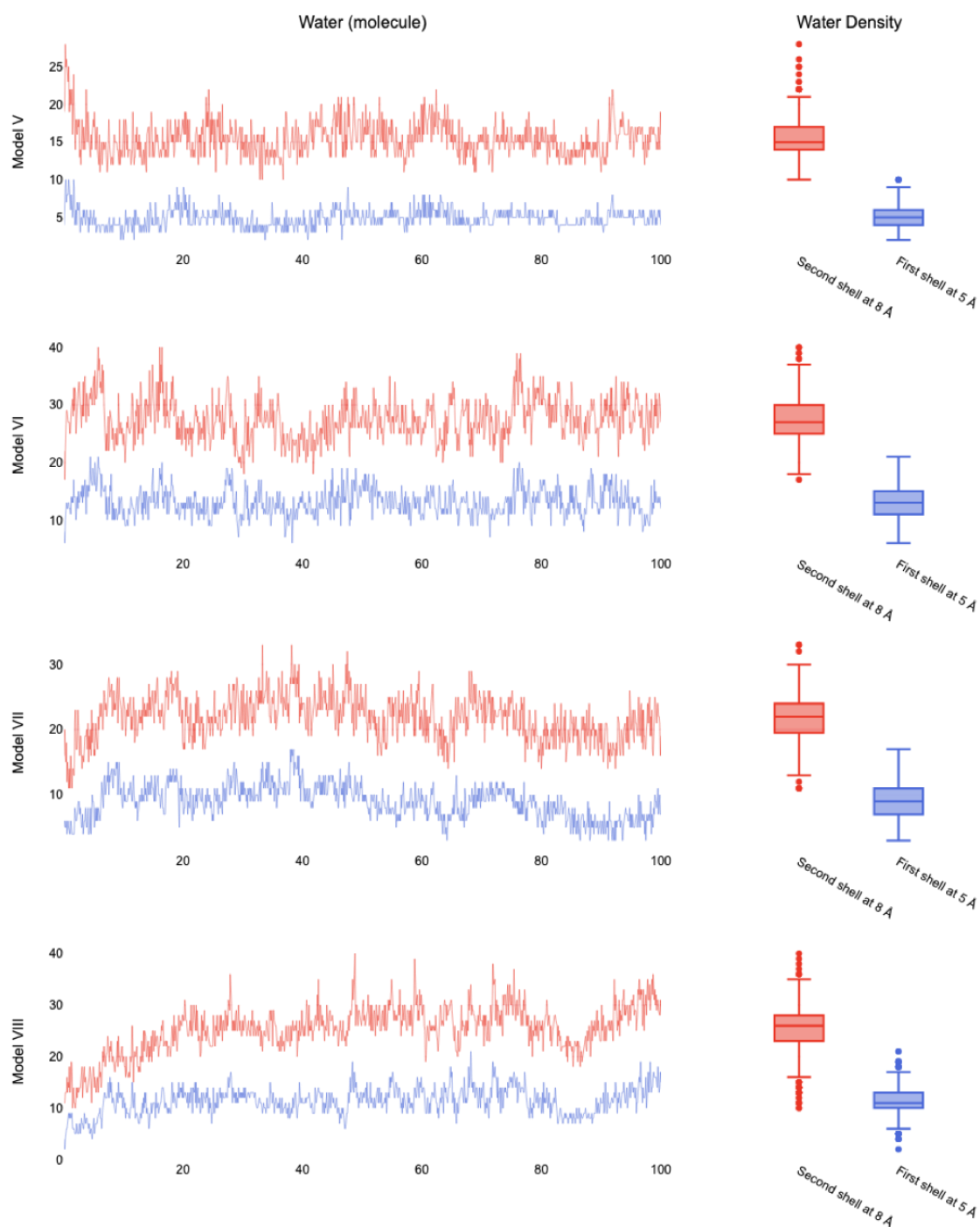


Figure S20. Protein solvation analysis obtained from the MD simulations for O-methoxy hydroxylated product versus heme starting orientation **V**, **VI**, **VII** and **VIII** during a 100 ns MD calculation focusing on the change of the protein helices. The right-hand-side counts the number of water molecules within a radius of Cpdl of 5 Å (in blue) and within 8 Å (in red).

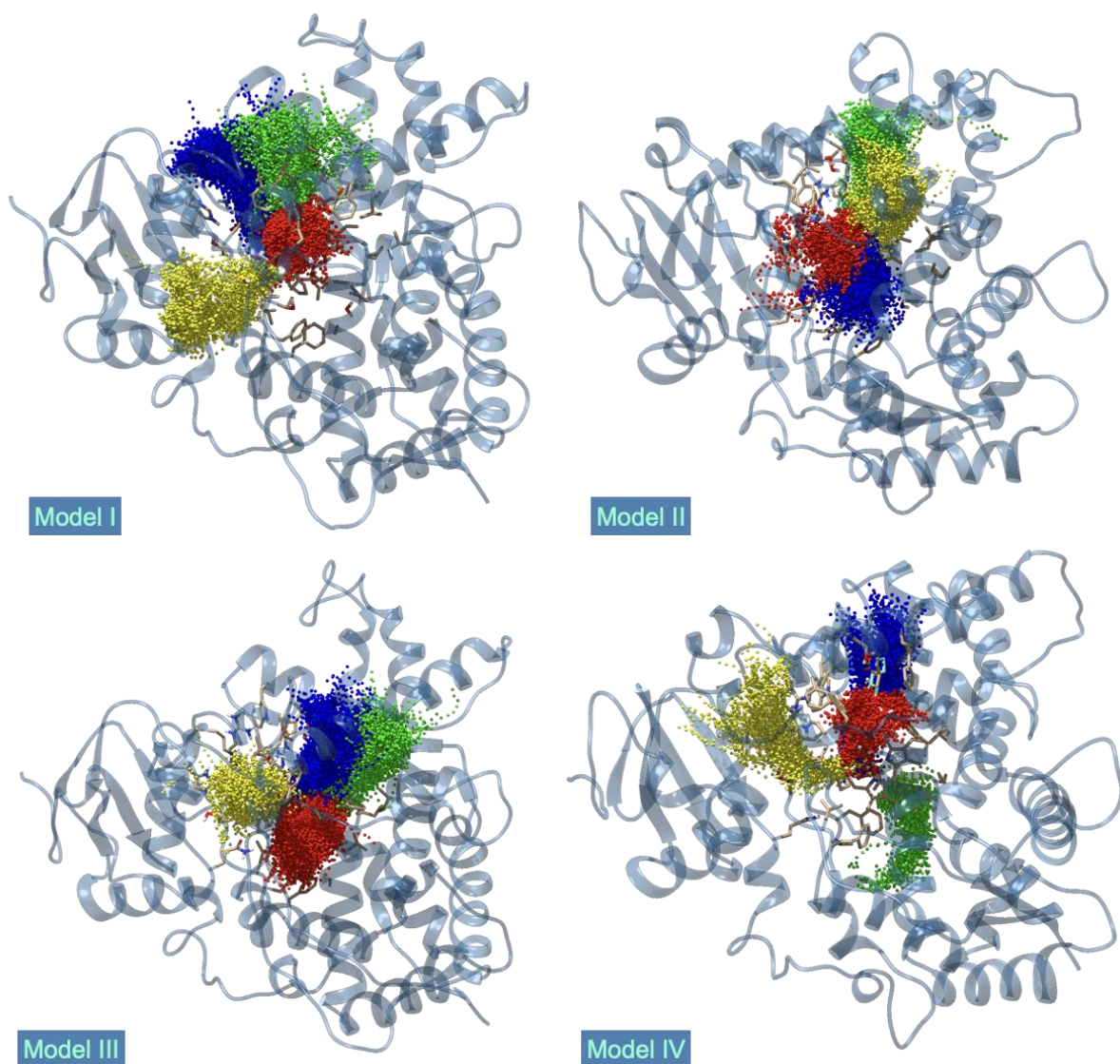


Figure S21. Tunneling analysis for the entrance and exit channels leading to heme as obtained from the individual snapshots from the MD simulations on CYP1A1 O-methoxy hydroxylated product versus heme starting orientation I, II, III and IV during a 100 ns. The top 4 channels are presented in red, blue, green and yellow for each of the models.

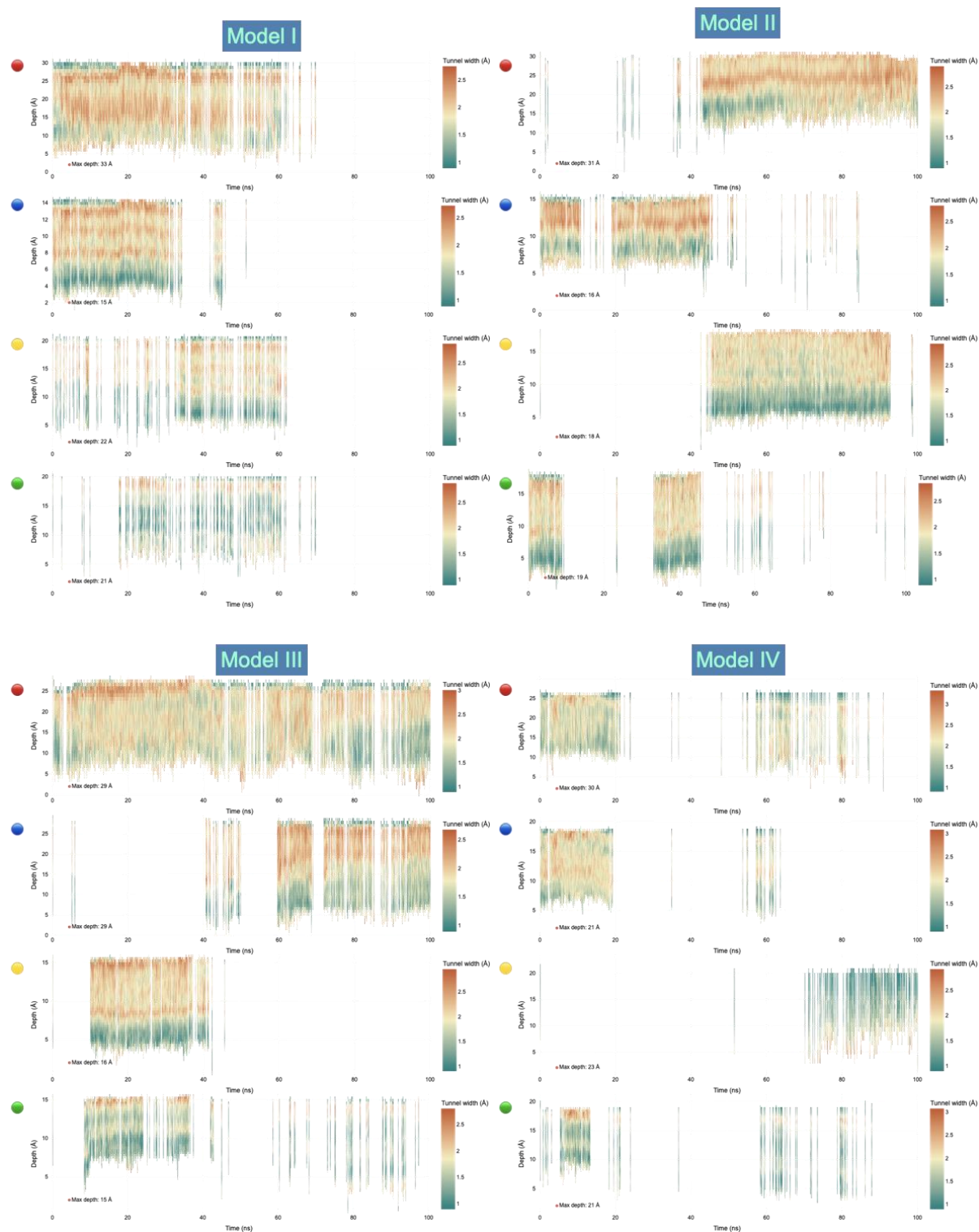


Figure S22. Tunneling analysis for the entrance and exit channels leading to heme as obtained from the individual snapshots from the MD simulations on CYP1A1 O-methoxy hydroxylated product versus heme starting orientation I, II, III and IV during a 100 ns. The details of top 4 channels from tunnel analysis for each model from the MD simulation are shown.

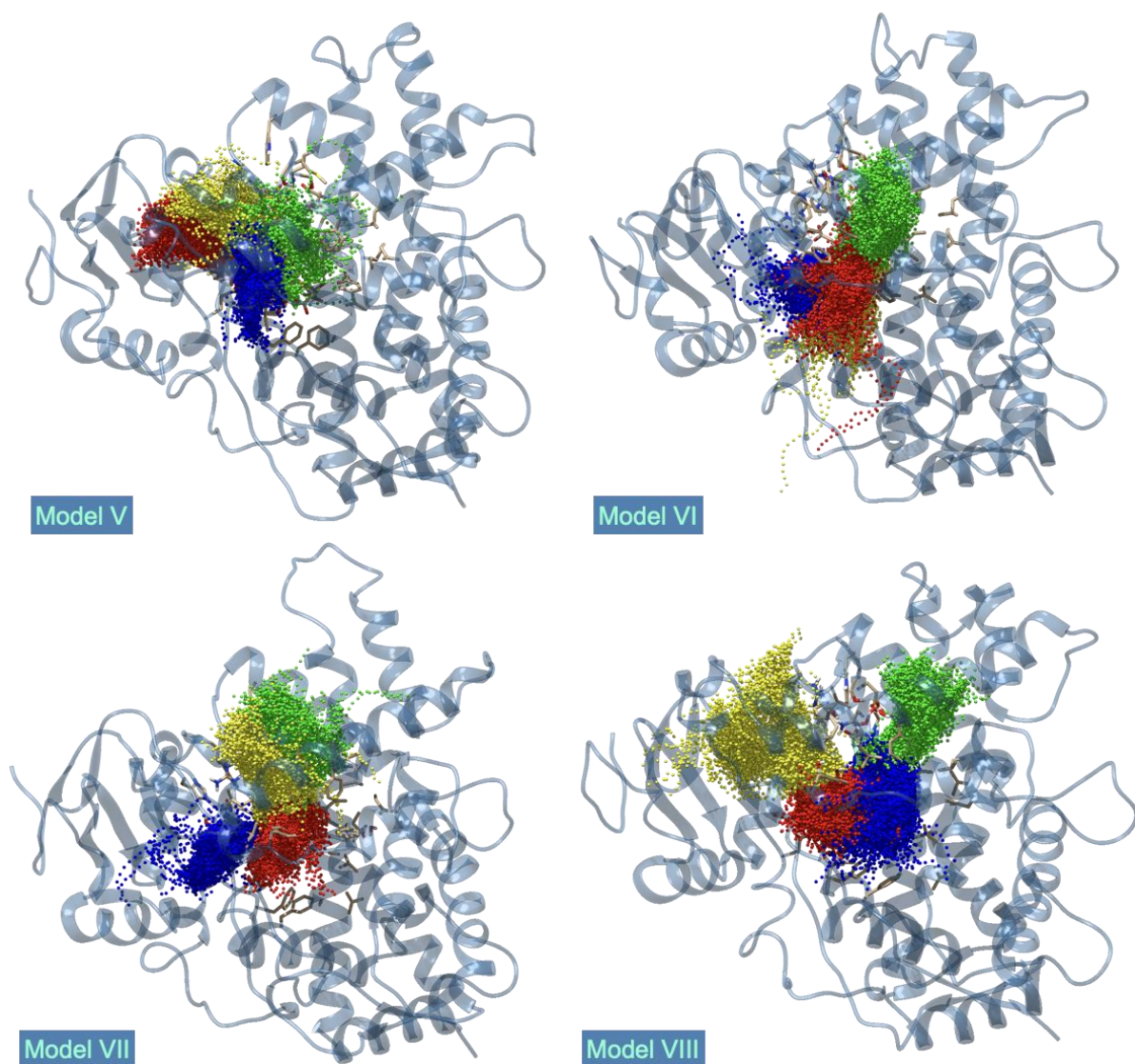


Figure S23. Tunneling analysis for the entrance and exit channels leading to heme as obtained from the individual snapshots from the MD simulations on CYP1A1 *O*-methoxy hydroxylated product versus heme starting orientation **V**, **VI**, **VII** and **VIII** during a 100 ns. The top 4 channels are presented in red, blue, green and yellow for each of the models.

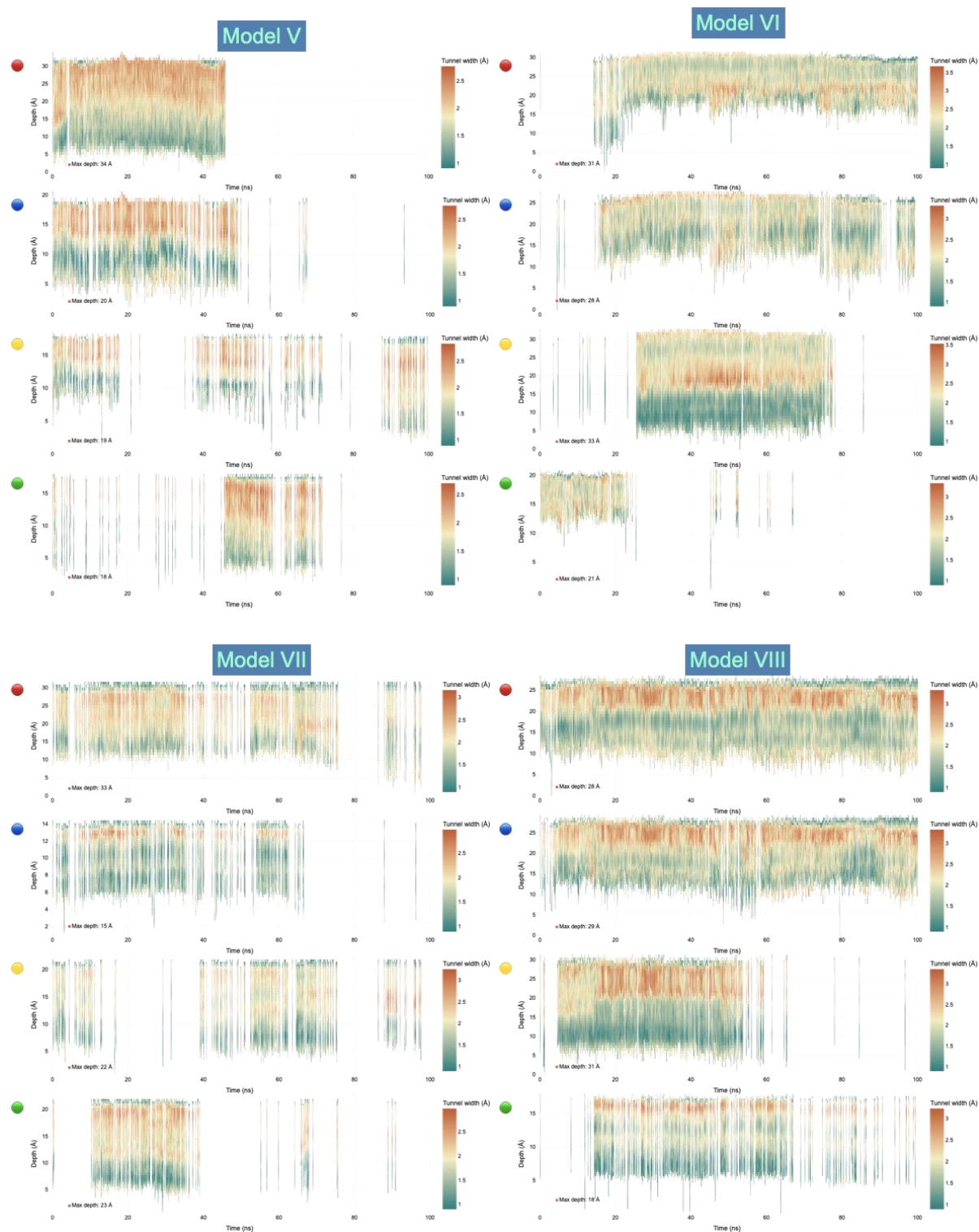


Figure S24. Tunneling analysis for the entrance and exit channels leading to heme as obtained from the individual snapshots from the MD simulations on CYP1A1 O-methoxy hydroxylated product versus heme starting orientation **V**, **VI**, **VII** and **VIII** during a 100 ns. The details of top 4 channels from tunnel analysis for each model from the MD simulation are shown.

QM model set-up

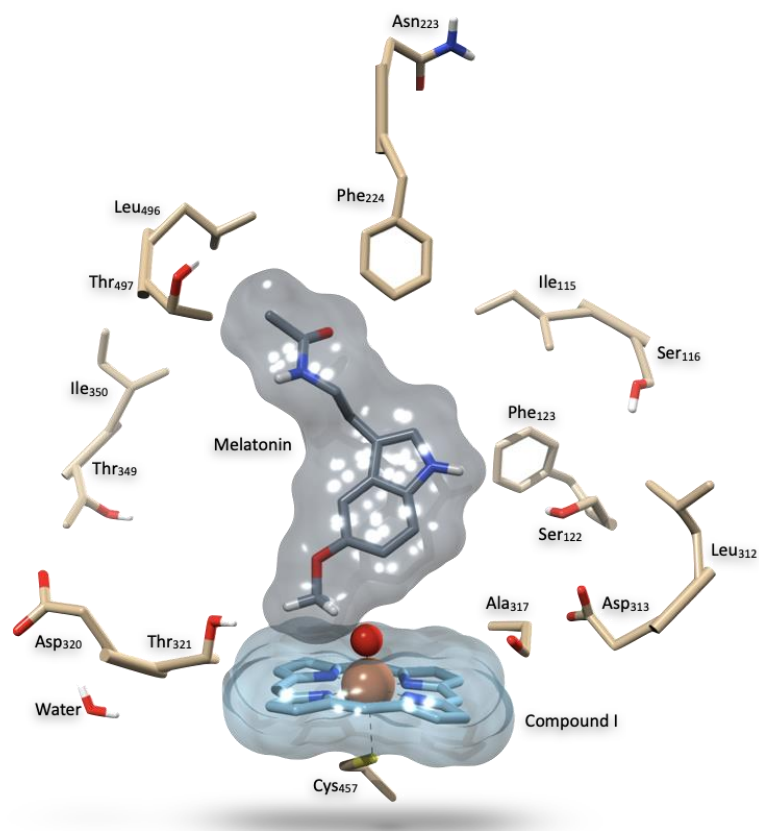


Figure S25. Cluster model ${}^4\text{Re}_{\text{AIII}}$ of CYP1A1 studied in this work. The structure was taken from the MD simulation for model III based on the snapshot at 97 nm and modified by truncating sidechains as described in the methodology section. This model has 308 atoms.

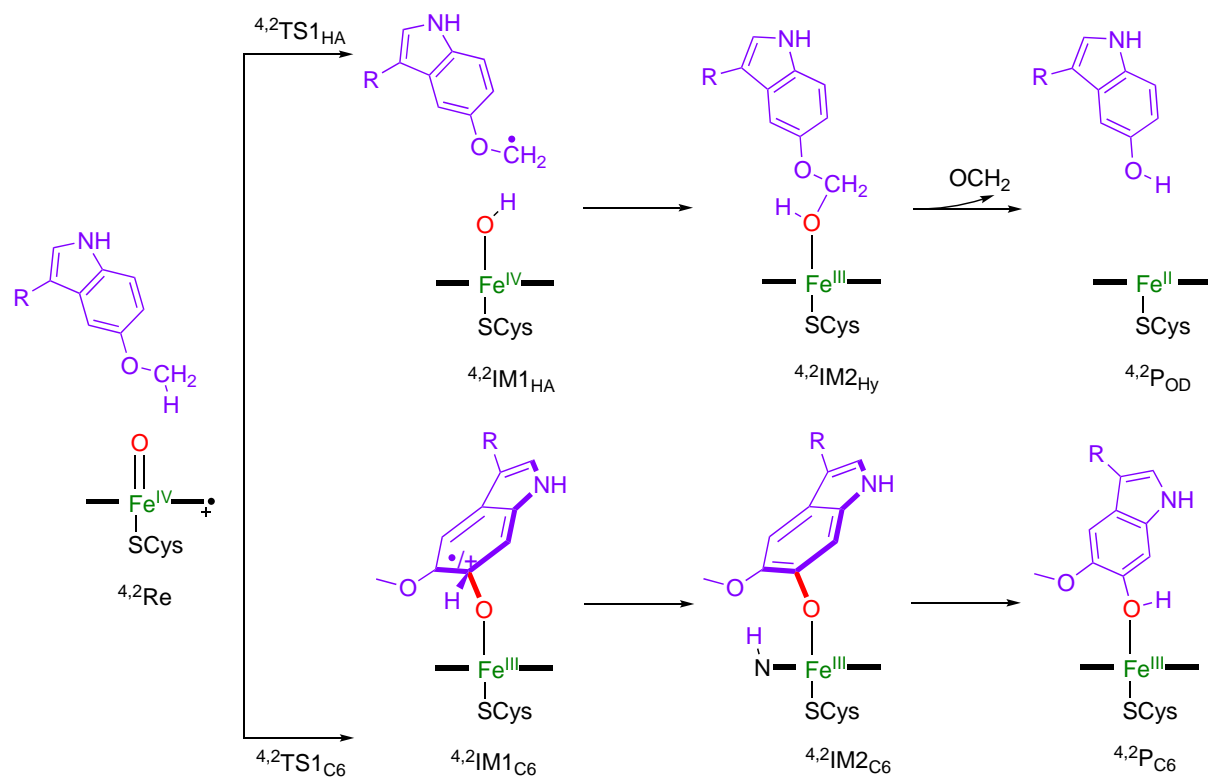


Figure S25. Calculated reaction mechanisms with definition of the labels of the structures.

QM simulation

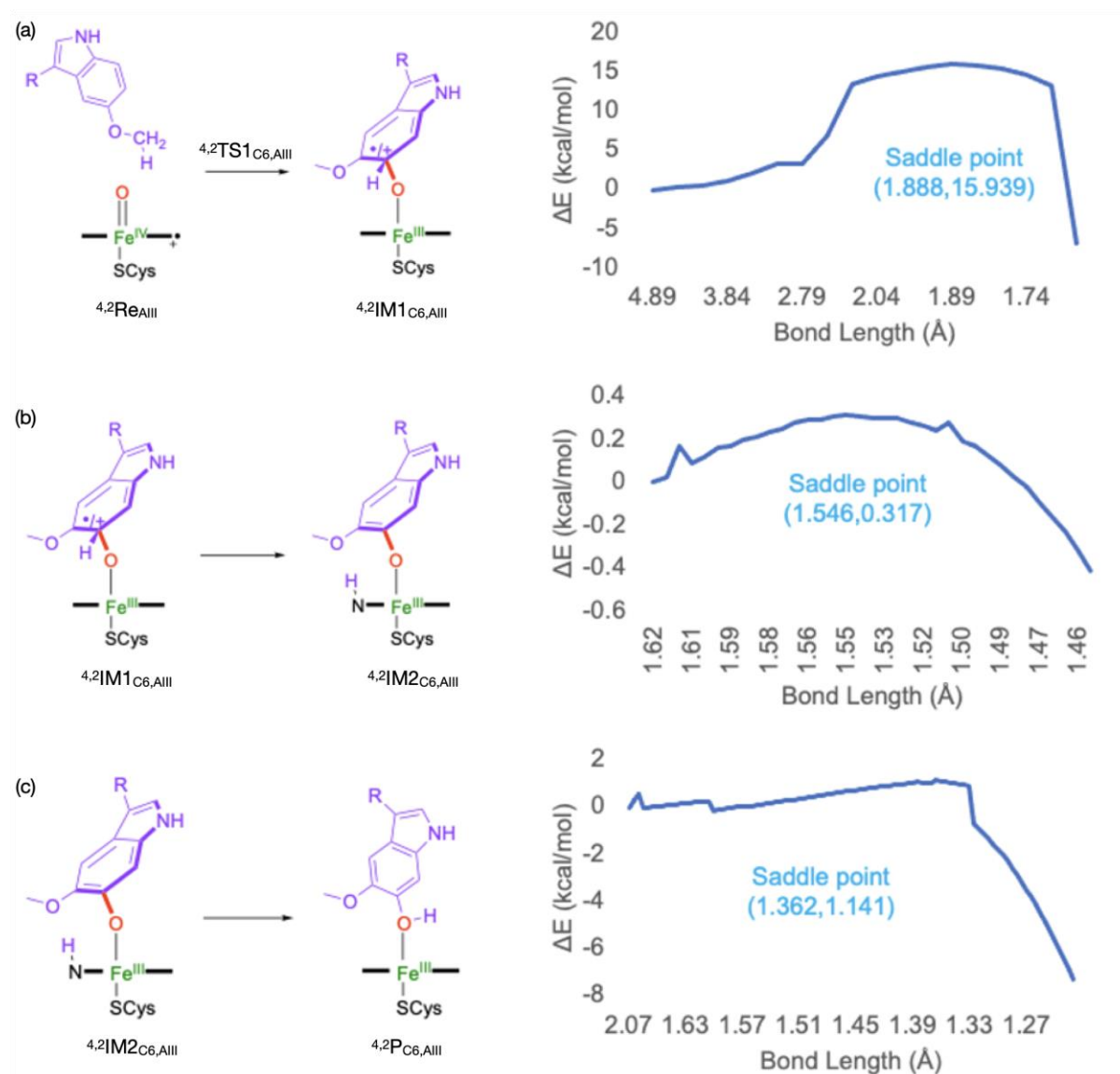


Figure S26. UB3LYP/BS1 calculated geometry scans for steps along the aromatic hydroxylation pathway. (a) The maximum for the scan from 4Re_{AIII} to $4\text{IM1}_{\text{C6,AIII}}$ was taken and geometry optimised to find $4\text{TS1}_{\text{C6,AIII}}$. (b) Geometry scan for proton transfer from the ipso position to porphyrin. This scan shows a small barrier of $< 0.5 \text{ kcal mol}^{-1}$ for proton transfer. (c) Geometry scan for proton transfer from porphyrin to phenol groups. This scan shows a small barrier of $< 1.5 \text{ kcal mol}^{-1}$ for proton transfer.

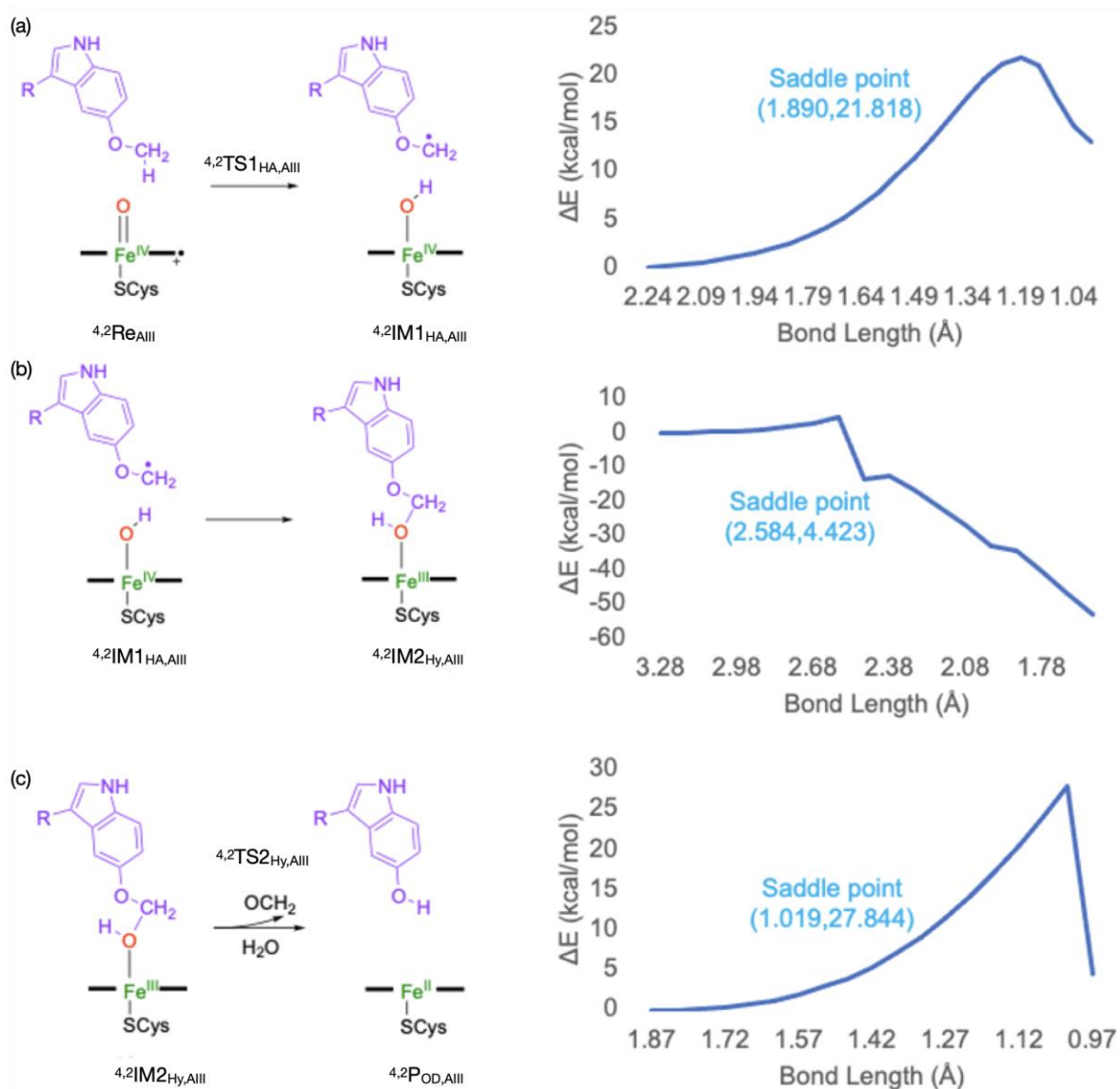


Figure S27. UB3LYP/BS1 calculated geometry scans for the O-demethylation pathway for model A. (a) Hydrogen atom abstraction scan from ${}^4\text{Re}_{\text{AIII}}$. The structure at the maximum of the scan from ${}^4\text{Re}_{\text{AIII}}$ to ${}^4\text{IM1}_{\text{HA,AIII}}$ was used to search for the transition state. (b) Rebound scan between ${}^4\text{IM2}_{\text{Hy,AIII}}$ to ${}^4\text{POD}_{\text{AIII}}$. The maximum of the scan was used to search for ${}^4\text{TS}_{\text{reb,AIII}}$. (c) Deformylation pathway from ${}^4\text{IM2}_{\text{Hy,AIII}}$.

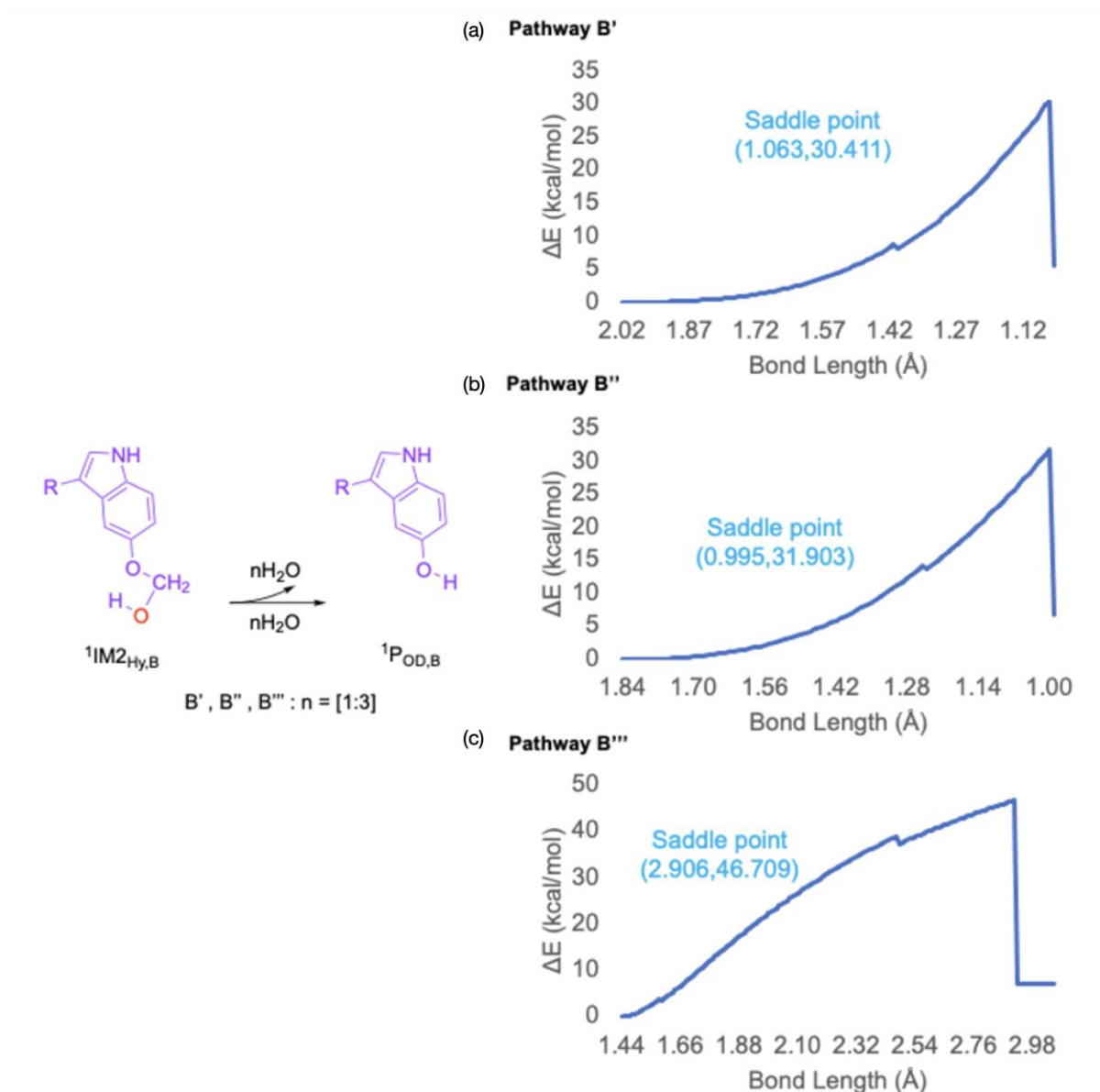
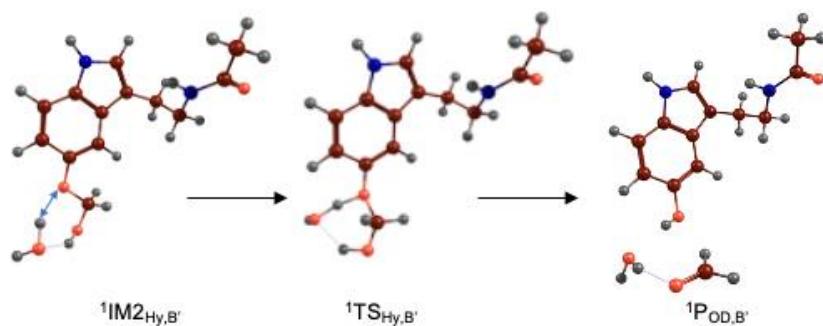
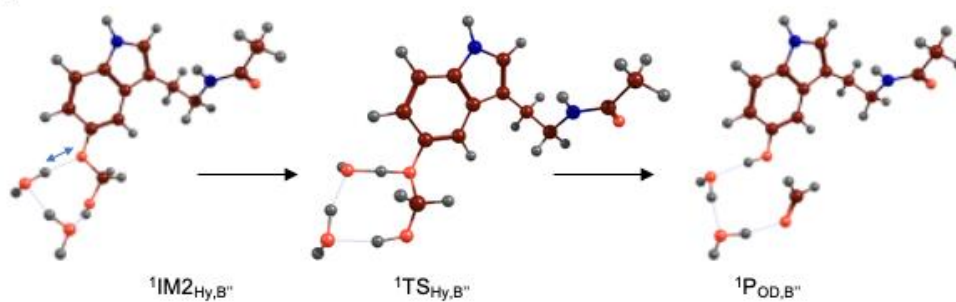


Figure S28. Geometry scans for the O-demethylation pathway outside the protein in a water environment, model **B**. The maxima of the scans for pathway **B'**, **B''** and **B'''** were used to find $^1\text{TS}_{\text{Hy},\text{B}'}$, $^1\text{TS}_{\text{Hy},\text{B}''}$ and $^1\text{TS}_{\text{Hy},\text{B}'}$. (a) Scan for $n = 1$ water. (b) Scan for $n = 2$ waters. (c) Scan for $n = 3$ waters.

Pathway B'



Pathway B''



Pathway B'''

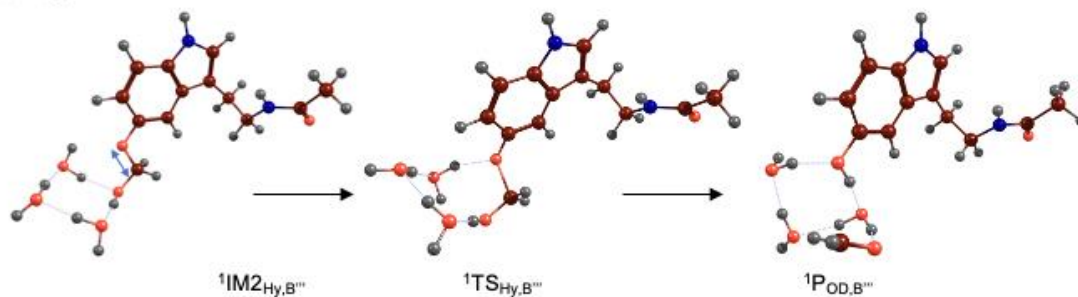


Figure S29. UB3LYP/BS1 optimized geometries for the local minima for pathways **B'**, **B''** and **B'''**.

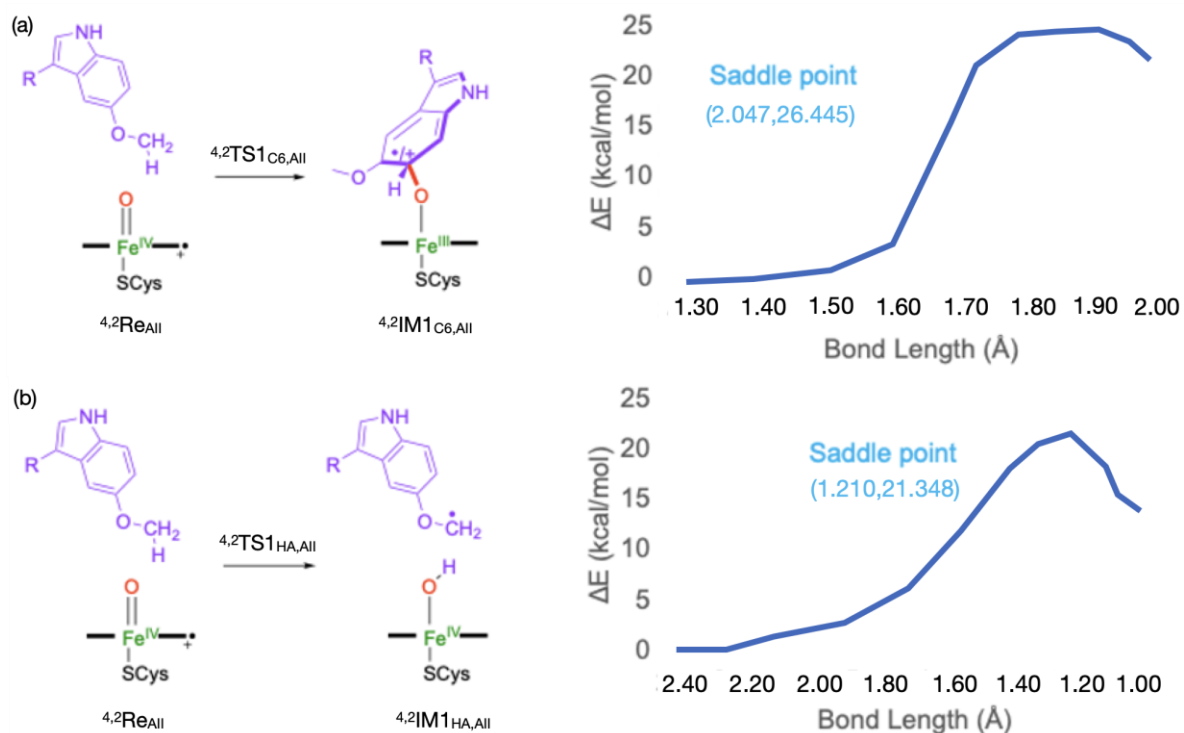


Figure S30. UB3LYP/BS1 calculated geometry scans for the O-demethylation pathway and the aromatic hydroxylation pathway for model **AII**. (a) The maximum for the scan from ${}^4\text{Re}_{\text{AII}}$ to ${}^4\text{IM1}_{\text{C6,AII}}$ was taken and geometry optimised to find ${}^4\text{TS1}_{\text{C6,AII}}$. (a) Hydrogen atom abstraction scan from ${}^4\text{Re}_{\text{AII}}$. The structure at the maximum of the scan from ${}^4\text{Re}_{\text{AII}}$ to ${}^4\text{IM1}_{\text{HA,AII}}$ was used to search for the transition state.

Table S1. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through aromatic hydroxylation in the doublet and quartet spin states (model **A_{III}**).

CAL	Energy	State					MUL	
		Re _{A_{III}}	TS1 _{C₆,_{III}}	IM1 _{C₆,_{III}}	IM2 _{C₆,_{III}}	P _{C₆,_{III}}		
BS1	ZPE	1648.548	1648.630	1649.158	1648.825	1650.182	2	
	E	-4558521.938	-4558513.369	-4558543.137	-4558560.432	-4558584.334		
	E+ZPE	-4556873.389	-4556864.739	-4556893.979	-4556911.607	-4556934.152		
	G	-4557034.488	-4557020.910	-4557051.293	-4557068.469	-4557091.216		
BS2	E	-4559698.982	-4559691.204	-4559719.535	-4559737.235	-4559762.225		
	E+ZPE	-4558050.433	-4558042.574	-4558070.376	-4558088.411	-4558112.043		
	G	-4558211.532	-4558198.745	-4558227.690	-4558245.273	-4558269.107		
BS2 / SOL	E	-4559806.597	-4559799.841	-4559825.253	-4559839.305	-4559862.704		
	E+ZPE	-4558158.049	-4558151.211	-4558176.094	-4558190.480	-4558212.522		
	G	-4558319.148	-4558307.382	-4558333.408	-4558347.342	-4558369.586		
BS3 / SOL	E	-5275393.324	-5275383.418	-5275407.803	-5275421.316	-5275444.434		
	E+ZPE	-5273744.776	-5273734.788	-5273758.645	-5273772.491	-5273794.252		
	G	-5273905.874	-5273890.959	-5273915.959	-5273929.353	-5273951.316		
BS1	ZPE	1648.596	1648.149	1648.632	1648.462	1648.779		4
	E	-4558521.869	-4558508.526	-4558515.167	-4558552.427	-4558572.936		
	E+ZPE	-4556873.273	-4556860.377	-4556866.535	-4556903.965	-4556924.157		
	G	-4557034.525	-4557018.397	-4557052.937	-4557063.108	-4557084.249		
BS2	E	-4559698.852	-4559686.731	-4559694.588	-4559731.648	-4559738.778		
	E+ZPE	-4558050.256	-4558038.581	-4558045.956	-4558083.185	-4558089.998		
	G	-4558211.508	-4558196.602	-4558232.357	-4558242.329	-4558250.091		
BS2 / SOL	E	-4559806.436	-4559792.946	-4559802.749	-4559835.200	-4559844.725		
	E+ZPE	-4558157.840	-4558144.796	-4558154.117	-4558186.737	-4558195.945		
	G	-4558319.092	-4558302.817	-4558340.519	-4558345.881	-4558356.038		
BS3 / SOL	E	-5275393.091	-5275379.247	-5275388.742	-5275411.905	-5275428.596		
	E+ZPE	-5273744.495	-5273731.098	-5273740.110	-5273763.443	-5273779.817		
	G	-5273905.747	-5273889.118	-5273926.512	-5273922.586	-5273939.909		

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

BS3 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // cc-PVTZ : (Fe)) in chlorobenzene

Table S2. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through aromatic hydroxylation in the doublet and quartet spin state (model **A_{III}**).

CAL	Energy	State					MUL	
		Re _{A_{III}}	TS1 _{C₆,_{III}}	IM1 _{C₆,_{III}}	IM2 _{C₆,_{III}}	P _{C₆,_{III}}		
BS1	ΔE	0.000	8.569	-21.199	-38.494	-62.396	2	
	Δ(E+ZPE)	0.000	8.65	-20.59	-38.218	-60.763		
	ΔG	0.000	13.578	-16.805	-33.981	-56.728		
BS2	ΔE	0.000	7.778	-20.553	-38.253	-63.243		
	Δ(E+ZPE)	0.000	7.859	-19.943	-37.978	-61.61		
	ΔG	0.000	12.787	-16.158	-33.741	-57.575		
BS2 / SOL	ΔE	0.000	6.756	-18.656	-32.708	-56.107		
	Δ(E+ZPE)	0.000	6.838	-18.045	-32.431	-54.473		
	ΔG	0.000	11.766	-14.26	-28.194	-50.438		
BS3 / SOL	ΔE	0.000	9.906	-14.479	-27.992	-51.111		
	Δ(E+ZPE)	0.000	9.988	-13.869	-27.715	-49.477		
	ΔG	0.000	14.915	-10.085	-23.479	-45.443		
BS1	ΔE	0.069	13.412	6.771	-30.489	-50.998		4
	Δ(E+ZPE)	0.116	13.012	6.854	-30.576	-50.768		
	ΔG	-0.037	16.091	-18.449	-28.620	-49.761		
BS2	ΔE	0.130	12.251	4.394	-32.666	-39.796		
	Δ(E+ZPE)	0.177	11.852	4.477	-32.752	-39.565		
	ΔG	0.024	14.930	-20.825	-30.797	-38.559		
BS2 / SOL	ΔE	0.161	13.651	3.848	-28.603	-38.128		
	Δ(E+ZPE)	0.209	13.253	3.932	-28.688	-37.896		
	ΔG	0.056	16.331	-21.371	-26.733	-36.890		
BS3 / SOL	ΔE	0.233	14.077	4.582	-18.581	-35.272		
	Δ(E+ZPE)	0.281	13.678	4.666	-18.667	-35.041		
	ΔG	0.127	16.756	-20.638	-16.712	-34.035		

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

BS3 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // cc-PVTZ : (Fe)) in chlorobenzene

Table S3. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin state (model A_{III}).

CAL	Energy	State				MUL	
		Re _{AIII}	TS1 _{HA,III}	IM1 _{HA,III}	P _{Hy,III}		
BS1	ZPE	1648.548	1645.051	1646.653	1650.927	2	
	E	-4558521.938	-4558498.765	-4558511.684	-4558578.499		
	E+ZPE	-4556873.389	-4556853.714	-4556865.031	-4556927.572		
	G	-4557034.488	-4557011.336	-4557024.711	-4557085.868		
BS2	E	-4559698.982	-4559676.004	-4559691.722	-4559758.53		
	E+ZPE	-4558050.433	-4558030.953	-4558045.068	-4558107.604		
	G	-4558211.532	-4558188.576	-4558204.749	-4558265.9		
BS2 / SOL	E	-4559806.597	-4559782.961	-4559796.685	-4559863.107		
	E+ZPE	-4558158.049	-4558137.91	-4558150.031	-4558212.18		
	G	-4559967.696	-4559940.583	-4559956.365	-4560021.403		
BS3 / SOL	E	-5275393.324	-5275372.05	-5275378.59	-5275445.236		
	E+ZPE	-5273744.776	-5273726.999	-5273731.937	-5273794.309		
	G	-5273905.874	-5273884.621	-5273891.617	-5273952.605		
BS1	ZPE	1648.596	1644.575	1646.655	1649.857		4
	E	-4558521.869	-4558499.518	-4558511.134	-4558573.868		
	E+ZPE	-4556873.273	-4556854.943	-4556864.479	-4556924.011		
	G	-4557034.525	-4557014.451	-4557024.709	-4557085.068		
BS2	E	-4559698.852	-4559676.665	-4559690.941	-4559755.08		
	E+ZPE	-4558050.256	-4558032.09	-4558044.286	-4558105.223		
	G	-4558211.508	-4558191.598	-4558204.516	-4558266.279		
BS2 / SOL	E	-4559806.436	-4559783.405	-4559796.034	-4559861.325		
	E+ZPE	-4558157.840	-4558138.830	-4558149.379	-4558211.468		
	G	-4559967.688	-4559942.913	-4559956.265	-4560022.382		
BS3 / SOL	E	-5275393.091	-5275367.028	-5275378.966	-5275444.362		
	E+ZPE	-5273744.495	-5273722.453	-5273732.311	-5273794.505		
	G	-5273905.747	-5273881.961	-5273892.541	-5273955.562		

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

BS3 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // cc-PVTZ : (Fe)) in chlorobenzene

Table S4. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin state (model **A_{III}**).

CAL	Energy	State				MUL	
		Re _{AIII}	TS1 _{HA,III}	IM1 _{HA,III}	P _{Hy,III}		
BS1	ΔE	0.000	23.173	10.254	-56.561	2	
	Δ(E+ZPE)	0.000	19.675	8.358	-54.183		
	ΔG	0.000	23.152	9.777	-51.380		
BS2	ΔE	0.000	22.978	7.260	-59.548		
	Δ(E+ZPE)	0.000	19.480	5.365	-57.171		
	ΔG	0.000	22.956	6.783	-54.368		
BS2 / SOL	ΔE	0.000	23.636	9.912	-56.510		
	Δ(E+ZPE)	0.000	20.139	8.018	-54.131		
	ΔG	0.000	27.113	11.331	-53.707		
BS3 / SOL	ΔE	0.000	21.274	14.734	-51.912		
	Δ(E+ZPE)	0.000	17.777	12.839	-49.533		
	ΔG	0.000	21.253	14.257	-46.731		
BS1	ΔE	0.069	22.420	10.804	-51.930		4
	Δ(E+ZPE)	0.116	18.446	8.910	-50.622		
	ΔG	-0.037	20.037	9.779	-50.580		
BS2	ΔE	0.130	22.317	8.041	-56.098		
	Δ(E+ZPE)	0.177	18.343	6.147	-54.790		
	ΔG	0.024	19.934	7.016	-54.747		
BS2 / SOL	ΔE	0.161	23.192	10.563	-54.728		
	Δ(E+ZPE)	0.209	19.219	8.670	-53.419		
	ΔG	0.008	24.783	11.431	-54.686		
BS3 / SOL	ΔE	0.233	26.295	14.358	-51.038		
	Δ(E+ZPE)	0.281	22.322	12.465	-49.729		
	ΔG	0.127	23.912	13.333	-49.688		

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

BS3 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // cc-PVTZ : (Fe)) in chlorobenzene

Table S5. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in quartet spin state (model A_{III}).

CAL	Energy	State			MUL
		P _{Hy,AIII}	TS _{Hy,AIII}	P _{Od,AIII}	
BS1	ZPE	1648.8471	1646.895545	1645.484276	4
	E	-4558568.434	-4558545.339	-4558535.89	
	E+ZPE	-4556919.587	-4556898.444	-4556890.405	
	G	-4557078.892	-4557053.782	-4557053.838	
BS2	E	-4559749.363	-4559725.773	-4559719.299	
	E+ZPE	-4558100.516	-4558078.877	-4558073.815	
	G	-4558259.82	-4558234.216	-4558237.247	
BS2 / SOL	E	-4559852.077	-4559830.132	-4559823.679	
	E+ZPE	-4558203.23	-4558183.236	-4558178.195	
	G	-4558362.535	-4558338.574	-4558341.627	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))
BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))
BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

Table S6. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in quartet spin states (model A_{III}).

CAL	Energy	State			MUL
		P _{Hy,AIII}	TS _{Hy,AIII}	P _{Od,AIII}	
BS1	ΔE	0.000	23.095	32.545	4
	Δ(E+ZPE)	0.000	21.143	29.182	
	ΔG	0.000	25.110	25.054	
BS2	ΔE	0.000	23.590	30.064	
	Δ(E+ZPE)	0.000	21.638	26.701	
	ΔG	0.000	25.605	22.573	
BS2 / SOL	ΔE	0.000	21.946	28.398	
	Δ(E+ZPE)	0.000	19.994	25.035	
	ΔG	0.000	23.960	20.908	

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

Table S7. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathway **B'** in the singlet spin state.

CAL	Energy	State			MUL
		IM2 _{Hy,B'}	TS _{Hy,B'}	P _{OD,B'}	
BS1	ZPE	191.578	0.30208	0.300963	1
	E	-575189.4	-575159	-575185.5	
	E+ZPE	-574997.8	-574969.5	-574996.7	
	G	-575030.9	-574998.7	-575032	
BS2	E	-575344.4	-575314.5	-575343	
	E+ZPE	-575152.9	-575125	-575154.1	
	G	-575185.9	-575154.2	-575189.5	
BS2 / SOL	E	-575357.7	-575327.6	-575355.6	
	E+ZPE	-575166.1	-575138	-575166.8	
	G	-575199.2	-575167.2	-575202.1	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S)
BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S)
BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S)

Table S8. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathway **B'** in the singlet spin state.

CAL	Energy	State			MUL
		IM2 _{Hy,B'}	TS _{Hy,B'}	P _{OD,B'}	
BS1	ΔE	0.000	30.411	3.904	1
	Δ(E+ZPE)	0.000	28.391	1.183	
	ΔG	0.000	32.199	-1.118	
BS2	ΔE	0.000	29.896	1.451	
	Δ(E+ZPE)	0.000	27.877	-1.270	
	ΔG	0.000	31.684	-3.572	
BS2 / SOL	ΔE	0.000	30.164	2.078	
	Δ(E+ZPE)	0.000	28.144	-0.643	
	ΔG	0.000	31.952	-2.945	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S)
BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S)
BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S)

Table S9. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathway B'' in the singlet spin state.

CAL	Energy	State			MUL
		IM2 _{Hy,B''}	TS _{Hy,B''}	P _{OD,B''}	
BS1	ZPE	207.524294	205.147916	204.770783	1
	E	-623151.96	-623119.27	-623145.2	
	E+ZPE	-622944.44	-622914.12	-622940.43	
	G	-622980.03	-622945.43	-622978.15	
BS2	E	-623326.71	-623295.59	-623323.3	
	E+ZPE	-623119.19	-623090.44	-623118.53	
	G	-623154.78	-623121.75	-623156.25	
BS2 / SOL	E	-623341.01	-623310.2	-623337.5	
	E+ZPE	-623133.48	-623105.05	-623132.73	
	G	-623169.07	-623136.36	-623170.45	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S)
BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S)
BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S)

Table S10. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathway B'' in the singlet spin state.

CAL	Energy	State			MUL
		IM2 _{Hy,B''}	TS _{Hy,B''}	P _{OD,B''}	
BS1	ΔE	0.000	32.689	6.760	1
	Δ(E+ZPE)	0.000	30.312	4.007	
	ΔG	0.000	34.596	1.876	
BS2	ΔE	0.000	31.118	3.411	
	Δ(E+ZPE)	0.000	28.742	0.657	
	ΔG	0.000	33.026	-1.473	
BS2 / SOL	ΔE	0.000	30.810	3.502	
	Δ(E+ZPE)	0.000	28.433	0.749	
	ΔG	0.000	32.717	-1.382	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S)
BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S)
BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S)

Table S11. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathway B''' in the singlet spin state.

CAL	Energy	State			MUL
		IM2 _{Hy,B'''}	TS _{Hy,B'''}	P _{OD,B'''}	
BS1	ZPE	223.620	221.329	221.060	1
	E	-671114.476	-671085.325	-671104.970	
	E+ZPE	-670890.856	-670863.996	-670883.909	
	G	-670928.569	-670896.081	-670923.350	
BS2	E	-671308.806	-671281.962	-671300.539	
	E+ZPE	-671085.186	-671060.633	-671079.479	
	G	-671122.898	-671092.718	-671118.920	
BS2 / SOL	E	-671324.202	-671297.939	-671315.960	
	E+ZPE	-671100.582	-671076.610	-671094.899	
	G	-671138.294	-671108.694	-671134.340	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S)
BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S)
BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S)

Table S12. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathway B''' in the singlet spin state.

CAL	Energy	State			MUL
		IM2 _{Hy,B'''}	TS _{Hy,B'''}	P _{OD,B'''}	
BS1	ΔE	0.000	29.151	9.507	1
	Δ(E+ZPE)	0.000	26.860	6.947	
	ΔG	0.000	32.488	5.219	
BS2	ΔE	0.000	26.843	8.266	
	Δ(E+ZPE)	0.000	24.552	5.707	
	ΔG	0.000	30.181	3.978	
BS2 / SOL	ΔE	0.000	26.263	8.242	
	Δ(E+ZPE)	0.000	23.972	5.682	
	ΔG	0.000	29.600	3.954	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S)
BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S)
BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S)

Table S13. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through aromatic hydroxylation in the doublet and quartet spin states (model **A_{II}**).

CAL	Energy	State			MUL	
		Re _{All}	TS1 _{HA,II}	IM1 _{HA,II}		
BS1	ZPE	1696.224695	1694.291965	1697.8763	2	
	E	-4689820.631	-4689814.173	-4689867.041		
	E+ZPE	-4688124.406	-4688119.881	-4688169.165		
	G	-4688293.24	-4688283.953	-4688337.273		
BS2	E	-4691038.944	-4691029.509	-4691090.979		
	E+ZPE	-4689342.719	-4689335.218	-4689393.103		
	G	-4689511.553	-4689499.289	-4689561.21		
BS2 / SOL	E	-5406625.561	-5406620.369	-5406673.695		
	E+ZPE	-5404929.336	-5404926.077	-5404975.819		
	G	-5405098.17	-5405090.149	-5405143.927		
BS1	ZPE	1696.28117	1693.586017	1695.686291		4
	E	-4689820.551	-4689812.312	-4689834.788		
	E+ZPE	-4688124.27	-4688118.726	-4688139.101		
	G	-4688292.871	-4688283.757	-4688305.74		
BS2	E	-4691038.835	-4691028.566	-4691052.69		
	E+ZPE	-4689342.553	-4689334.98	-4689357.003		
	G	-4689511.155	-4689500.012	-4689523.642		
BS2 / SOL	E	-5406625.702	-5406616.215	-5406638.586		
	E+ZPE	-5404929.421	-5404922.629	-5404942.9		
	G	-5405098.022	-5405087.661	-5405109.538		

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

BS3 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // cc-PVTZ : (Fe)) in chlorobenzene

Table S14. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through aromatic hydroxylation in the doublet and quartet spin state (model A_{II}).

CAL	Energy	State			MUL
		Re _{All}	TS1 _{HA,II}	IM1 _{HA,II}	
BS1	ΔE	0.000	6.458	-46.410	2
	Δ(E+ZPE)	0.000	4.526	-44.758	
	ΔG	0.000	9.288	-44.032	
BS2	ΔE	0.000	9.435	-52.035	
	Δ(E+ZPE)	0.000	7.502	-50.383	
	ΔG	0.000	12.264	-49.657	
BS3 / SOL	ΔE	0.000	5.192	-48.134	
	Δ(E+ZPE)	0.000	3.259	-46.483	
	ΔG	0.000	8.021	-45.757	
BS1	ΔE	0.000	8.239	-14.237	4
	Δ(E+ZPE)	0.137	5.681	-14.695	
	ΔG	0.370	9.483	-12.499	
BS2	ΔE	0.110	10.378	-13.746	
	Δ(E+ZPE)	0.000	7.573	-14.450	
	ΔG	0.399	11.541	-12.088	
BS3 / SOL	ΔE	-0.141	9.346	-13.025	
	Δ(E+ZPE)	-0.084	6.707	-13.564	
	ΔG	0.148	10.509	-11.368	

CAL : calculation method
MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

BS3 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // cc-PVTZ : (Fe)) in chlorobenzene

Table S15. Absolute energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin state (model A_{II}).

CAL	Energy	State			MUL	
		Re _{All}	TS1 _{C6,II}	IM1 _{C6,II}		
BS1	ZPE	1696.224695	1697.123288	1698.151149	2	
	E	-4689820.631	-4689818.164	-4689844.582		
	E+ZPE	-4688124.406	-4688121.04	-4688146.431		
	G	-4688293.24	-4688283.892	-4688309.683		
BS2	E	-4691038.944	-4691033.812	-4691064.032		
	E+ZPE	-4689342.719	-4689336.688	-4689365.881		
	G	-4689511.553	-4689499.54	-4689529.132		
BS2 / SOL	E	-5406625.561	-5406619.993	-5406646.375		
	E+ZPE	-5404929.336	-5404922.87	-5404948.224		
	G	-5405098.17	-5405085.721	-5405111.476		
BS1	ZPE	1696.28117	1696.527154	1696.939428		4
	E	-4689820.551	-4689811.416	-4689833.192		
	E+ZPE	-4688124.27	-4688114.889	-4688136.252		
	G	-4688292.871	-4688278.996	-4688301.34		
BS2	E	-4691038.835	-4691026.562	-4691053.545		
	E+ZPE	-4689342.553	-4689330.035	-4689356.605		
	G	-4689511.155	-4689494.142	-4689521.693		
BS2 / SOL	E	-5406625.702	-5406613.849	-5406639.457		
	E+ZPE	-5404929.421	-5404917.322	-5404942.517		
	G	-5405098.022	-5405081.429	-5405107.605		

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe))

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // LANL2DZ : (Fe)) in chlorobenzene

BS3 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S) // cc-PVTZ : (Fe)) in chlorobenzene

Table S16. Relative energies in kcal mol⁻¹ of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin state (model A_{II}).

CAL	Energy	State			MUL
		Re _{All}	TS1 _{C6,II}	IM1 _{C6,II}	
BS1	ΔE	0.000	2.467	-23.951	2
	Δ(E+ZPE)	0.000	3.366	-22.025	
	ΔG	0.000	9.349	-16.443	
BS2	ΔE	0.000	5.133	-25.088	
	Δ(E+ZPE)	0.000	6.031	-23.161	
	ΔG	0.000	12.014	-17.579	
BS3 / SOL	ΔE	0.000	5.568	-20.814	
	Δ(E+ZPE)	0.000	6.466	-18.888	
	ΔG	0.000	12.449	-13.306	
BS1	ΔE	0.000	9.135	-12.641	4
	Δ(E+ZPE)	0.137	9.517	-11.846	
	ΔG	0.370	14.244	-8.100	
BS2	ΔE	0.110	12.382	-14.601	
	Δ(E+ZPE)	0.166	12.685	-13.886	
	ΔG	0.399	17.412	-10.140	
BS3 / SOL	ΔE	-0.141	11.712	-13.896	
	Δ(E+ZPE)	-0.084	12.014	-13.181	
	ΔG	0.148	16.741	-9.435	

CAL : calculation method

MUL : multiplicity

BS1 : uB3LYP (6-31G* : (C, H, O, N, and S)

BS2 : uB3LYP (6-311+G* : (C, H, O, N, and S)

BS2 / SOL : uB3LYP (6-311+G* : (C, H, O, N, and S)

Table S17. Group charges (doublet/quartet) of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through *aromatic hydroxylation* in the doublet and quartet spin state (model A_{III}).

Residue group	Composition	Re _{AIII}	TS _{C6,III}	IM1 _{C6,III}	IM2 _{C6,III}	P _{C6,III}
Compound I	Fe	0.479 / 0.475	0.266 / 0.406	0.209 / 0.372	0.206 / 0.367	0.184 / 0.412
	O	-0.378 / -0.375	-0.486 / -0.526	-0.551 / -0.548	-0.57 / -0.597	-0.638 / -0.637
	Fe-O*	0.101 / 0.1	-0.221 / -0.119	-0.342 / -0.177	-0.364 / -0.23	-0.454 / -0.225
	Por*	-0.187 / -0.186	-0.482 / -0.39	-0.57 / -0.765	-0.32 / -0.438	-0.486 / -0.459
	S	0.052 / 0.051	0.023 / 0.036	0.03 / 0.087	0.028 / -0.019	0.119 / -0.06
	S-Me*	0.013 / 0.012	-0.061 / -0.031	-0.056 / 0.018	-0.042 / -0.082	0.073 / -0.117
Melatonin	C ₆ *	-0.202 / -0.202	-0.087 / -0.02	0.102 / 0.083	0.321 / 0.333	0.325 / 0.325
	H _{C6} *	0.122 / 0.122	0.186 / 0.164	0.156 / 0.159	0.388 / 0.405	0.449 / 0.426
	H-Me*	0.196 / 0.196	0.177 / 0.172	0.189 / 0.179	0.178 / 0.186	0.177 / 0.181
	The rest atoms*	-0.148 / -0.147	0.357 / 0.112	0.348 / 0.37	-0.351 / -0.302	-0.282 / -0.305
Environment*		-1.895 / -1.894	-1.869 / -1.887	-1.825 / -1.867	-1.809 / -1.873	-1.802 / -1.827
Total**		-2 / -2	-2 / -2	-2 / -2	-2 / -2	-2 / -2

** is the summation of *

Table S18. Group spin densities (doublet/quartet) of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through *aromatic hydroxylation* in the doublet and quartet spin state (model A_{III}).

Residue group	Composition	Re _{AIII}	TS _{C6,III}	IM1 _{C6,III}	IM2 _{C6,III}	P _{C6,III}
Compound I	Fe	1.197 / 1.095	1.002 / 1.817	0.989 / 2.999	0.98 / 2.951	0.98 / 2.47
	O	0.888 / 0.917	0.13 / 0.436	0.039 / 0.003	0.05 / 0.052	0.05 / 0.006
	Fe-O*	2.085 / 2.013	1.132 / 2.254	1.028 / 3.003	1.03 / 3.003	1.03 / 2.476
	Por*	-0.361 / 0.294	-0.094 / -0.109	-0.08 / 0.182	-0.08 / 0.077	-0.08 / 0.021
	S	-0.709 / 0.675	0.019 / 0.157	0.046 / -0.207	0.055 / -0.051	0.055 / 0.488
	S-Me*	-0.722 / 0.687	0.017 / 0.163	0.045 / -0.214	0.054 / -0.047	0.054 / 0.503
Melatonin	C ₆ *	0 / 0	-0.031 / 0.021	-0.003 / -0.001	0.002 / 0.003	0.002 / -0.002
	H _{C6} *	0 / 0	0.003 / 0.013	0 / 0.001	0 / 0.001	0 / -0.002
	H-Me*	0 / -0.001	0 / 0.002	0 / 0	0 / 0	0 / 0
	The rest atoms*	-0.001 / 0.006	-0.026 / 0.651	0.011 / 0.03	-0.006 / -0.037	-0.006 / 0.004
Environment*		-0.001 / 0.001	0 / 0.004	0 / 0	0 / 0	0 / 0
Total**		1 / 3	1 / 3	1 / 3	1 / 3	1 / 3

** is the summation of *

Table S19 Group charges (doublet/quartet) of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin state (model A_{III}).

Residue group	Composition	Re _{AIII}	TS _{HA,III}	IM1 _{HA,III}	P _{Hy,III}
Compound I	Fe	0.479 / 0.475	0.358 / 0.401	0.325 / 0.334	0.175 / 0.423
	O	-0.378 / -0.375	-0.57 / -0.578	-0.688 / -0.687	-0.586 / -0.585
	Fe-O*	0.101 / 0.1	-0.212 / -0.177	-0.362 / -0.353	-0.411 / -0.162
	Por*	-0.187 / -0.186	-0.277 / -0.256	-0.194 / -0.19	-0.488 / -0.477
	S	0.052 / 0.051	0.024 / 0.067	0.092 / 0.084	0.132 / -0.056
	S-Me*	0.013 / 0.012	-0.048 / 0.024	0.054 / 0.046	0.085 / -0.116
Melatonin	C ₆ *	-0.202 / -0.202	-0.192 / -0.191	-0.22 / -0.221	-0.223 / -0.221
	H _{C6} *	0.122 / 0.122	0.15 / 0.14	0.139 / 0.137	0.177 / 0.171
	H-Me*	0.196 / 0.196	0.381 / 0.385	0.418 / 0.419	0.442 / 0.428
	The rest atoms*	-0.148 / -0.147	0.075 / -0.041	0.066 / 0.06	0.304 / 0.265
Environment*		-1.895 / -1.894	-1.878 / -1.883	-1.9 / -1.898	-1.886 / -1.886
Total**		-2 / -2	-2 / -2	-2 / -2	-2 / -2

** is the summation of *

Table S20. Group spin densities (doublet/quartet) of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin state (model A_{III}).

Residue group	Composition	Re _{AIII}	TS _{HA,III}	IM1 _{HA,III}	P _{Hy,III}
Compound I	Fe	1.197 / 1.095	1.457 / 0.858	0.98 / 0.856	1.047 / 2.505
	O	0.888 / 0.917	0.294 / 0.62	0.097 / 0.169	-0.003 / 0.011
	Fe-O*	2.085 / 2.013	1.751 / 1.478	1.077 / 1.025	1.044 / 2.516
	Por*	-0.361 / 0.294	-0.246 / 0.321	-0.479 / 0.406	-0.075 / -0.007
	S	-0.709 / 0.675	-0.316 / 0.647	-0.569 / 0.568	0.033 / 0.476
	S-Me*	-0.722 / 0.687	-0.319 / 0.659	-0.578 / 0.576	0.031 / 0.491
Melatonin	C ₆ *	0 / 0	-0.009 / 0.012	0.022 / 0.022	0 / 0
	H _{C6} *	0 / 0	0 / -0.001	-0.001 / -0.001	0 / 0
	H-Me*	0 / -0.001	-0.026 / -0.055	-0.005 / -0.005	0 / -0.001
	The rest atoms*	-0.001 / 0.006	-0.151 / 0.584	0.91 / 0.922	0 / 0.001
Environment*		-0.001 / 0.001	0 / 0.001	0.053 / 0.055	0 / 0
Total**		1 / 3	1 / 3	1 / 3	1 / 3

** is the summation of *

Table S21. Group charges (doublet/quartet) of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin states (model **A_{III}**).

Residue group	Composition	IM2 _{Hy,III}	TS _{A,III}	P _{OD,III}
Compound I	Fe	0 / 0.413	0 / 0.412	0 / 0.187
	O	0 / -0.604	0 / -0.598	0 / -0.32
	Fe-O*	0 / -0.191	0 / -0.186	0 / -0.132
	Por*	0 / -0.667	0 / -0.555	0 / -0.485
	S	0 / 0.09	0 / 0.025	0 / 0.139
	S-Me*	0 / 0.053	0 / -0.023	0 / 0.099
Melatonin	C ₆ *	0 / -0.233	0 / -0.21	0 / -0.26
	H _{C6} *	0 / 0.183	0 / 0.176	0 / 0.116
	H-Me*	0 / 0.447	0 / 0.463	0 / 0.475
	The rest atoms*	0 / 0.276	0 / 0.305	0 / 0.082
Environment*		0 / -1.869	0 / -1.971	0 / -1.895
Total**		0 / -2	0 / -2	0 / -2

** is the summation of *

Table S22. Group spin densities (doublet/quartet) of UB3LYP/BS1 optimised geometries for the metabolism of melatonin by CYP1A1 through O-demethylation in the doublet and quartet spin state (model **A_{III}**).

Residue group	Composition	IM2 _{Hy,III}	TS _{A,III}	P _{OD,III}
Compound I	Fe	0 / 3.396	0 / 3.165	0 / 1.062
	O	0 / 0.009	0 / 0.009	0 / 0.007
	Fe-O*	0 / 3.406	0 / 3.174	0 / 1.069
	Por*	0 / -0.017	0 / -0.063	0 / 1.911
	S	0 / -0.379	0 / -0.113	0 / 0.022
	S-Me*	0 / -0.39	0 / -0.112	0 / 0.02
Melatonin	C ₆ *	0 / 0	0 / 0	0 / 0.001
	H _{C6} *	0 / 0	0 / 0	0 / 0
	H-Me*	0 / 0	0 / 0	0 / 0
	The rest atoms*	0 / 0.001	0 / 0.001	0 / -0.001
Environment*		0 / 0	0 / 0.001	0 / 0
Total**		0 / 3	0 / 3	0 / 3

** is the summation of *

Table S23. Group charges (doublet/quartet) of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathways **B'**, **B''** and **B'''** in the singlet spin state.

Residue group	Composition	IM2 _{Hy}	TS _{Hy}	P _{OD}
Water	H ₁ *	0.152 / 0.445 / 0.409	0.166 / 0.438 / 0.435	0.143 / 0.449 / 0.451
	H ₂ *	0.4 / 0.397 / 0.427	0.365 / 0.355 / 0.399	0.403 / 0.396 / 0.408
	O*	-0.792 / -0.817 / -0.819	-0.897 / -0.896 / -0.815	-0.807 / -0.819 / -0.832
Melatonin	O-Me*	-0.628 / -0.644 / -0.659	-0.59 / -0.563 / -0.641	-0.359 / -0.39 / -0.375
	H-Me*	0.418 / 0.429 / 0.441	0.429 / 0.447 / 0.428	0.432 / 0.434 / 0.433
	The rest atoms*	0.451 / 0.18 / 0.193	0.527 / 0.242 / 0.184	0.189 / -0.092 / -0.11
Environment*		0 / 0.01 / 0.007	0 / -0.024 / 0.01	0 / 0.022 / 0.025
Total**		0 / 0 / 0	0 / 0 / 0	0 / 0 / 0

** is the summation of *

Table S24. Group spin densities (doublet/quartet) of UB3LYP/BS1 optimised geometries for the non-protein O-demethylation via pathways **B'**, **B''** and **B'''** in the singlet spin state.

Residue group	Composition	IM2 _{Hy}	TS _{Hy}	P _{OD}
Water	H ₁ *	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
	H ₂ *	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
	O*	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
Melatonin	O-Me*	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
	H-Me*	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
	The rest atoms*	0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
Environment*		0 / 0 / 0	0 / 0 / 0	0 / 0 / 0
Total**		0 / 0 / 0	0 / 0 / 0	0 / 0 / 0

Table S25. Imaginary frequencies (in cm⁻¹) of the UB3LYP/BS1 optimised transition states for the metabolism of melatonin by CYP1A1 through aromatic hydroxylation and O-demethylation.

State	Imaginary frequency
^{2,4} TS1 _{C6,III}	i428.4 (doublet), i475.9 (quartet)
^{2,4} TS1 _{HA,III}	i1735.2 (doublet), i1200.9 (quartet)
⁴ TS _{Hy,AIII}	i245.2 (quartet)
¹ TS _{B',B'',B'''}	i260.7 (B'), i169.6 (B''), i132.3 (B''')

Table S26. The comparison of computed bond distances r (Å) around the iron centre of CpdI and the spin densities of relating atoms from different studies. (doublet/quartet).

Calculation method	S complex	System	rFe-O	rFe-S	ρ FeO	ρ Scys	ρ Por
QM/MM	S-CH3	A	1.626/1.626	2.585/2.565	2.172/2.042	-0.349/0.282	-0.82/0.671
		B	-	2.550/2.550	-	-0.390/0.370	-
	S-H	A	1.626/1.627	2.589/2.560	2.041/2.177	-0.270/0.201	-0.915/0.763
QM	S-CH3	A	1.619/1.620	2.625/2.622	2.141/2.040	-0.777/0.719	-0.350/0.229
		C	1.629/1.629	2.607/2.619	2.100/2.030	-0.750/0.720	-0.340/0.240
		D	1.647/1.649	2.645/2.644	2.095/2.016	-0.712/0.680	0.301/-0.382
	S-H	C	1.648/1.651	2.600/2.581	2.09/2.020	-0.590/0.540	-0.500/0.440
		CYP1A1-MEL ^{AII}	1.640/1.642	2.525/2.512	2.109/2.049	-0.374/0.318	-0.375/0.267
		CYP1A1-MEL ^{AIII}	1.626/1.629	2.579/2.558	2.095/2.018	-0.490/0.438	-0.604/0.533
	S-CH2-CH3	CYP1A1-MEL ^{AII}	1.634/1.635	2.567/2.565	2.104/2.042	-0.587/0.534	-0.210/0.115
CYP1A1-MEL ^{AIII}		1.619/1.620	2.676/2.670	2.085/2.013	-0.709/0.675	-0.361/0.294	

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Cartesian Coordinates

2ReAll

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6	-15.649993000	-42.917351000	29.577253000
6	-21.006583000	-43.282485000	30.328524000
6	-22.422778000	-43.338789000	30.587199000
6	-22.603109000	-42.997771000	31.894526000
6	-21.292228000	-42.730428000	32.437363000
6	-19.795872000	-42.032338000	34.271573000
6	-19.569085000	-41.596165000	35.627979000
6	-18.220938000	-41.482693000	35.780580000
6	-17.628821000	-41.837657000	34.513485000
6	-15.681747000	-42.085248000	33.018329000
6	-14.262634000	-42.025760000	32.762094000
6	-14.091255000	-42.329863000	31.445668000
6	-15.405585000	-42.577275000	30.904037000
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6	-27.070649000	-40.040175000	29.568255000	6	-19.685281000	-34.054509000	37.738752000
8	-28.030168000	-40.732752000	29.187195000	6	-18.160441000	-33.997019000	37.905103000
6	-27.050879000	-40.949253000	31.924205000	8	-17.644883000	-33.759196000	39.001716000
8	-28.377837000	-41.447972000	31.831918000	6	-20.310702000	-33.017135000	36.776998000
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1	-28.583841000	-41.428486000	30.873523000	1	-19.969778000	-35.064355000	37.415336000
1	-26.923378000	-41.543708000	33.993571000	1	-21.333105000	-32.789625000	37.094788000
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7	-26.139995000	-39.557208000	28.712001000	6	-16.012913000	-34.244186000	36.717105000
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2TS1HA,III

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4P_{OD,AIII}

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6	-13.047985000	-32.536647000	25.351037000	1	-14.655934000	-37.916476000	20.921291000
6	-13.570597000	-33.724938000	25.868008000	1	-10.682608000	-38.521368000	23.055533000
1	-17.268364000	-28.044255000	27.971144000	1	-13.476561000	-40.642668000	31.038477000
1	-16.001305000	-29.955416000	28.330284000	1	-9.849396000	-38.329992000	31.983913000
1	-16.885331000	-30.213578000	26.021661000	1	-13.131283000	-37.310640000	34.318222000
1	-15.494909000	-29.330530000	25.378393000	1	-17.161489000	-39.213645000	33.731242000
1	-16.518028000	-32.510413000	27.081484000	1	-17.110720000	-34.325815000	37.823726000
1	-13.366350000	-30.427503000	25.033357000	1	-14.559629000	-29.130923000	27.695173000
1	-15.246766000	-34.623795000	26.887722000	1	-21.156392000	-25.716335000	26.382482000
1	-12.070872000	-32.534854000	24.872796000	1	-16.187010000	-24.948814000	27.804903000
1	-13.004592000	-34.651744000	25.800268000	8	-20.988531000	-42.094781000	26.764279000
6	-17.689586000	-33.978518000	36.961464000	1	-20.611824000	-40.361876000	27.310041000
6	-18.837826000	-34.988357000	36.836522000	1	-20.510101000	-42.626288000	26.102361000
8	-19.302842000	-35.520603000	37.846589000	'1IM2Hy,B'			
6	-16.750900000	-33.773575000	35.749100000	6	1.025718000	-0.782467000	-1.575773000
6	-17.312189000	-32.798927000	34.696541000	6	0.941877000	-0.159255000	-0.334595000
8	-16.939681000	-31.601422000	34.789005000	6	-0.114085000	0.747035000	-0.106202000
8	-18.131223000	-33.271223000	33.838738000	6	0.074648000	-0.519525000	-2.590214000
1	-18.123449000	-33.013273000	37.260586000	6	-0.969130000	0.367508000	-2.383606000
1	-15.815159000	-33.341929000	36.118757000	6	-1.055679000	0.997350000	-1.137001000
1	-16.532188000	-34.746451000	35.296689000	6	-0.489057000	1.559760000	1.026502000
7	-19.294794000	-35.223292000	35.576089000	6	-1.616907000	2.249656000	0.644826000
6	-20.380474000	-36.146709000	35.310793000	7	-1.966381000	1.914593000	-0.648364000
6	-19.998060000	-37.286797000	34.343930000	8	2.010786000	-1.679788000	-1.926853000
8	-19.055545000	-38.180119000	34.911854000	6	0.190842000	1.620158000	2.365657000
6	-19.542541000	-36.767802000	32.975607000	6	-0.100816000	0.401208000	3.267191000
1	-18.930280000	-34.638165000	34.814185000	6	-0.100816000	0.401208000	3.267191000
1	-21.244816000	-35.605246000	34.893207000	7	-1.514349000	0.256696000	3.567500000
1	-20.910778000	-37.887523000	34.203518000	6	-2.026209000	0.386014000	4.829831000
1	-18.195102000	-37.719436000	35.008967000	6	-3.539991000	0.250028000	4.933207000
1	-19.323770000	-37.604848000	32.303590000	8	-1.330422000	0.582638000	5.819180000
1	-20.316519000	-36.143621000	32.510524000	1	1.666826000	-0.352886000	0.447368000
1	-18.635376000	-36.161501000	33.073006000	1	0.189362000	-1.025264000	-3.543860000
6	-14.034828000	-36.791023000	34.647010000	1	-1.691056000	0.564461000	-3.171712000
6	-15.291403000	-37.633280000	34.487591000	1	-2.196160000	2.975316000	1.200261000
8	-16.366987000	-37.250013000	34.963972000	1	-0.117753000	2.526707000	2.899550000
1	-13.940543000	-36.503134000	35.698225000	1	1.279432000	1.689592000	2.231521000
1	-14.153957000	-35.867351000	34.069367000	1	0.265833000	-0.515097000	2.785933000
7	-15.132189000	-38.787549000	33.796966000	1	0.407047000	0.507765000	4.228157000
6	-16.216499000	-39.725766000	33.538950000	1	-2.147712000	0.157720000	2.786747000
6	-16.123738000	-40.986650000	34.405474000	1	-2.727790000	2.319271000	-1.169895000
1	-14.205177000	-39.007865000	33.432575000	1	-3.773172000	-0.608204000	5.571350000
1	-16.190268000	-39.997170000	32.475215000	1	-3.940673000	1.140207000	5.427469000
1	-16.940513000	-41.677058000	34.160506000	1	-4.041923000	0.119256000	3.968934000
1	-15.171145000	-41.508904000	34.250171000	6	3.030609000	-1.999486000	-0.950266000
1	-16.203037000	-40.726814000	35.466270000	1	3.550056000	-1.079475000	-0.660320000
6	-10.717622000	-37.698393000	31.746737000	1	2.526473000	-2.437830000	-0.073088000
6	-11.910761000	-38.655847000	31.677872000	8	3.948241000	-2.842391000	-1.529237000
8	-12.381451000	-39.127194000	32.726593000	1	3.467601000	-3.662241000	-1.783956000
6	-10.390081000	-36.830670000	30.520090000	8	1.992660000	-4.451913000	-2.641031000
6	-11.410362000	-35.725951000	30.164504000	1	1.643212000	-3.539153000	-2.632621000
6	-11.520426000	-34.663002000	31.268722000	1	2.311774000	-4.573164000	-3.548928000
6	-11.038578000	-35.079679000	28.821004000	'1TSB'			
1	-10.877049000	-37.079108000	32.635008000	6	1.205524000	-0.899392000	-1.354223000
1	-9.416831000	-36.350662000	30.700571000	6	1.068771000	-0.151843000	-0.196900000
1	-10.235722000	-37.474785000	29.643164000	6	-0.095463000	0.622160000	-0.048328000
1	-12.398562000	-36.194426000	30.048192000	6	0.239814000	-0.919771000	-2.379157000
1	-12.238326000	-33.884249000	30.987382000	6	-0.910715000	-0.152512000	-2.252766000
1	-11.853638000	-35.083771000	32.224090000	6	-1.068128000	0.607152000	-1.088397000
1	-10.550906000	-34.173974000	31.436565000	6	-0.572082000	1.518250000	0.978676000
1	-11.750699000	-34.291169000	28.551460000	6	-1.782114000	1.994285000	0.533914000
1	-10.041268000	-34.620467000	28.874948000	7	-2.087769000	1.450034000	-0.700004000
1	-11.034330000	-35.810072000	28.003905000	8	2.371142000	-1.675056000	-1.519369000
7	-12.347239000	-39.006345000	30.453152000	6	0.100070000	1.843174000	2.282892000
6	-13.462396000	-39.916315000	30.221411000	6	-0.014029000	0.723423000	3.340162000
6	-13.318325000	-40.630010000	28.872704000	7	-1.388434000	0.432477000	3.708107000
6	-13.268728000	-39.712461000	27.634425000	6	-1.914083000	0.762162000	4.929164000
8	-12.950079000	-38.488218000	27.834981000	6	-3.389382000	0.431258000	5.112324000
8	-13.523946000	-40.214387000	26.514594000	8	-1.252508000	1.269575000	5.826585000
1	-12.085356000	-38.484418000	29.621287000	1	1.854412000	-0.159948000	0.552453000
1	-14.413040000	-39.366508000	30.255703000	1	0.433377000	-1.525005000	-3.259394000
1	-12.396655000	-41.229280000	28.867095000				

1	-1.660291000	-0.146544000	-3.039279000
1	-2.453718000	2.701355000	1.002363000
1	-0.328837000	2.759576000	2.704580000
1	1.167279000	2.043790000	2.114810000
1	0.463274000	-0.192790000	2.969349000
1	0.491698000	1.023796000	4.260289000
1	-2.005334000	0.090326000	2.985307000
1	-2.900848000	1.676510000	-1.251122000
1	-3.487592000	-0.302760000	5.918456000
1	-3.916379000	1.335523000	5.431086000
1	-3.871423000	0.033401000	4.213319000
6	2.295581000	-3.143410000	-0.912008000
1	2.446741000	-3.003483000	0.160003000
1	1.262909000	-3.427135000	-1.158590000
8	3.268128000	-3.847423000	-1.486997000
1	3.124841000	-3.670742000	-2.508045000
8	2.613666000	-2.669752000	-3.577217000
1	2.532184000	-1.949778000	-2.533013000
1	3.323450000	-2.376085000	-4.165370000

1Pod,B'

6	1.219462000	-0.574574000	-1.350539000
6	1.017379000	0.185946000	-0.202803000
6	-0.187795000	0.895054000	-0.058610000
6	0.230423000	-0.642620000	-2.360750000
6	-0.966135000	0.053371000	-2.237543000
6	-1.166508000	0.817947000	-1.085694000
6	-0.710122000	1.770765000	0.965876000
6	-1.951331000	2.174518000	0.530487000
7	-2.237252000	1.603862000	-0.694057000
8	2.401497000	-1.257239000	-1.467868000
6	-0.046906000	2.143363000	2.262287000
6	-0.062452000	1.013533000	3.313011000
7	-1.414565000	0.612275000	3.661771000
6	-1.897422000	0.631949000	4.939867000
6	-3.358092000	0.223298000	5.087157000
8	-1.218349000	0.944243000	5.911703000
1	1.798151000	0.223511000	0.551088000
1	0.419111000	-1.251225000	-3.240688000
1	-1.718714000	-0.001839000	-3.020155000
1	-2.655932000	2.848211000	1.000463000
1	-0.537478000	3.025055000	2.692234000
1	1.000736000	2.421147000	2.081392000
1	0.495626000	0.147025000	2.933245000
1	0.412016000	1.340567000	4.240879000
1	-2.038544000	0.388981000	2.898720000
1	-3.059695000	1.789436000	-1.245519000
1	-3.413955000	-0.656373000	5.736102000
1	-3.900994000	1.030865000	5.587810000
1	-3.853737000	-0.005670000	4.138059000
6	2.882628000	-4.408142000	-0.658165000
1	3.004269000	-5.017151000	0.257644000
1	2.717075000	-3.324341000	-0.530672000
8	2.934109000	-4.928045000	-1.757418000
1	2.654736000	-3.712670000	-3.137784000
8	2.551451000	-2.885538000	-3.658978000
1	2.438420000	-1.721554000	-2.340239000
1	3.382624000	-2.793144000	-4.148650000

1IM2Hy,B''

6	1.087983000	-1.000452000	-1.475550000
6	1.000646000	-0.292694000	-0.281350000
6	-0.059560000	0.622850000	-0.119750000
6	0.141308000	-0.814685000	-2.510890000
6	-0.902061000	0.085719000	-2.371028000
6	-0.995235000	0.799849000	-1.171217000
6	-0.443351000	1.510807000	0.952040000
6	-1.570535000	2.169709000	0.517451000
7	-1.910438000	1.746719000	-0.752211000
8	2.085491000	-1.908721000	-1.756368000
6	0.227639000	1.666391000	2.288058000
6	-0.045418000	0.498938000	3.260663000
7	-1.458156000	0.342576000	3.558790000
6	-1.983020000	0.530176000	4.808146000
6	-3.494390000	0.366747000	4.907809000
8	-1.299875000	0.794738000	5.790583000
1	1.731685000	-0.422295000	0.508664000
1	0.249163000	-1.401308000	-3.417947000
1	-1.623553000	0.222799000	-3.172101000
1	-2.155620000	2.929108000	1.019071000
1	-0.102613000	2.597586000	2.763363000
1	1.315632000	1.749361000	2.155776000
1	0.344553000	-0.436739000	2.838642000
1	0.452076000	0.674837000	4.216831000
1	-2.082587000	0.187521000	2.779931000
1	-2.673695000	2.107359000	-1.302501000
1	-3.714468000	-0.476117000	5.570836000
1	-3.915469000	1.263530000	5.371971000
1	-3.987625000	0.195757000	3.945354000
6	2.940642000	-2.375632000	-0.678801000
1	3.571913000	-1.541473000	-0.352267000
1	2.284600000	-2.698705000	0.144141000
8	3.751054000	-3.368886000	-1.160499000

1	3.220130000	-4.203096000	-1.243659000
8	1.880274000	-3.775247000	-3.849517000
1	1.969008000	-3.057023000	-3.184143000
1	2.724284000	-3.749102000	-4.326456000
8	2.155078000	-5.495332000	-1.739626000
1	2.659234000	-6.287696000	-1.978133000
1	1.937308000	-5.057047000	-2.600555000

1TSB''

6	1.077578000	-1.196303000	-1.299188000
6	1.008325000	-0.372494000	-0.187888000
6	-0.092890000	0.494777000	-0.081863000
6	0.108624000	-1.203075000	-2.320520000
6	-0.977339000	-0.341461000	-2.236298000
6	-1.070845000	0.492711000	-1.117047000
6	-0.494670000	1.481821000	0.892675000
6	-1.669385000	2.019641000	0.424467000
7	-2.022573000	1.430197000	-0.775464000
8	2.177068000	-2.077058000	-1.401261000
6	0.208831000	1.833031000	2.173368000
6	0.044360000	0.775976000	3.286764000
7	-1.340761000	0.577124000	3.674880000
6	-1.834638000	0.970150000	4.890334000
6	-3.323832000	0.726179000	5.095814000
8	-1.137213000	1.466399000	5.766623000
1	1.797835000	-0.393932000	0.557216000
1	0.261769000	-1.865526000	-3.167465000
1	-1.727951000	-0.321892000	-3.021679000
1	-2.283823000	2.799851000	0.853621000
1	-0.164373000	2.792084000	2.550957000
1	1.283759000	1.964789000	1.986942000
1	0.471155000	-0.181482000	2.960758000
1	0.571821000	1.094798000	4.188280000
1	-1.982279000	0.244641000	2.969144000
1	-2.821704000	1.682532000	-1.335638000
1	-3.453704000	0.021500000	5.923377000
1	-3.797290000	1.666589000	5.393240000
1	-3.836104000	0.330372000	4.212773000
6	2.001261000	-3.489205000	-0.564809000
1	1.755677000	-3.086991000	0.418303000
1	1.144818000	-3.918934000	-1.095600000
8	3.127092000	-4.159613000	-0.602863000
1	3.168822000	-4.699562000	-1.505637000
8	2.272994000	-2.988577000	-3.589905000
1	2.298035000	-2.376472000	-2.334942000
1	2.880277000	-2.547041000	-4.201300000
8	3.037248000	-5.233867000	-2.877775000
1	3.926996000	-5.408572000	-3.220384000
1	2.719061000	-4.302279000	-3.328456000

1Pod,B''

6	1.213633000	-0.884437000	-1.395227000
6	1.059328000	-0.078435000	-0.270369000
6	-0.106629000	0.696559000	-0.141388000
6	0.215128000	-0.933543000	-2.398134000
6	-0.941479000	-0.171265000	-2.289790000
6	-1.094648000	0.637542000	-1.160767000
6	-0.575264000	1.631038000	0.856518000
6	-1.796555000	2.084718000	0.414153000
7	-2.119637000	1.490745000	-0.789910000
8	2.354404000	-1.637678000	-1.489638000
6	0.115354000	2.011765000	2.136138000
6	0.052557000	0.918862000	3.223505000
7	-1.314063000	0.593920000	3.593661000
6	-1.787894000	0.691724000	4.872088000
6	-3.266271000	0.364236000	5.042529000
8	-1.088219000	1.012159000	5.826270000
1	1.850059000	-0.050056000	0.473824000
1	0.371223000	-1.572720000	-3.261973000
1	-1.700334000	-0.209059000	-3.067327000
1	-2.462100000	2.808944000	0.865447000
1	-0.328307000	2.929847000	2.539951000
1	1.173889000	2.232108000	1.940059000
1	0.566270000	0.014501000	2.869934000
1	0.548485000	1.253127000	4.137441000
1	-1.953817000	0.372084000	2.843418000
1	-2.936045000	1.699561000	-1.342141000
1	-3.364048000	-0.457370000	5.758763000
1	-3.772436000	1.233229000	5.474535000
1	-3.770259000	0.084601000	4.111556000
6	2.254326000	-3.701998000	0.059860000
1	2.506454000	-2.975747000	0.849332000
1	1.223133000	-3.656185000	-0.327639000
8	3.055476000	-4.542630000	-0.307767000
1	2.705461000	-5.375314000	-1.863664000
8	2.411419000	-3.067540000	-3.788924000
1	2.378024000	-2.122270000	-2.358825000
1	3.224780000	-2.891751000	-4.284534000
8	2.576819000	-5.604894000	-2.813954000
1	3.373547000	-6.101552000	-3.053130000
1	2.460268000	-4.026000000	-3.530329000

1IM2Hy,B'''

6	0.878032000	-1.065328000	-1.551219000
6	0.861475000	-0.360849000	-0.351277000
6	-0.150514000	0.600044000	-0.147975000
6	-0.095661000	-0.827681000	-2.550467000
6	-1.092202000	0.117459000	-2.371311000
6	-1.112391000	0.827073000	-1.165171000
6	-0.456703000	1.496101000	0.941897000
6	-1.566863000	2.208879000	0.550442000
7	-1.968563000	1.811553000	-0.709386000
8	1.815003000	-2.019253000	-1.874778000
6	0.265590000	1.608215000	2.255312000
6	-0.031295000	0.446602000	3.227866000
7	-1.439617000	0.356392000	3.570631000
6	-1.912426000	0.535962000	4.841656000
6	-3.426212000	0.447505000	4.988782000
8	-1.184535000	0.738537000	5.806580000
1	1.610991000	-0.527784000	0.414048000
1	-0.046802000	-1.414170000	-3.462530000
1	-1.833354000	0.292442000	-3.146643000
1	-2.099254000	2.990069000	1.076694000
1	-0.002282000	2.550169000	2.748451000
1	1.351217000	1.639181000	2.086472000
1	0.299353000	-0.502689000	2.785761000
1	0.504839000	0.588931000	4.168646000
1	-2.096417000	0.250944000	2.810279000
1	-2.733432000	2.210165000	-1.230467000
1	-3.667908000	-0.399071000	5.639413000
1	-3.784807000	1.352921000	5.487423000
1	-3.958987000	0.325863000	4.039990000
6	2.705477000	-2.475727000	-0.845455000
1	3.390950000	-1.665627000	-0.568243000
1	2.105391000	-2.775468000	0.026085000
8	3.459264000	-3.522921000	-1.343136000
1	2.886437000	-4.345345000	-1.369426000
8	1.885745000	-5.434735000	-4.274715000
1	2.419595000	-6.073737000	-4.769565000
1	2.407043000	-4.586514000	-4.319701000
8	3.370941000	-3.170307000	-4.111431000
1	2.707550000	-2.470905000	-3.988066000
1	3.668228000	-3.300533000	-3.182261000
8	1.906980000	-5.674378000	-1.588147000
1	2.382089000	-6.491600000	-1.376008000
1	1.802543000	-5.683641000	-2.580354000

1TS_B''''

6	1.156178000	-1.348139000	-1.213850000
6	1.202181000	-0.776910000	0.046548000
6	0.383637000	0.338636000	0.293664000
6	0.335028000	-0.868091000	-2.251955000
6	-0.474056000	0.237883000	-2.025578000
6	-0.444259000	0.826779000	-0.756663000
6	0.175454000	1.189721000	1.441678000
6	-0.748230000	2.130099000	1.053281000
7	-1.127775000	1.915868000	-0.259334000
8	1.981818000	-2.466298000	-1.466090000
6	0.815602000	1.061052000	2.795346000
6	0.233581000	-0.082367000	3.654278000
7	-1.181366000	0.089123000	3.933225000
6	-1.662241000	0.360577000	5.181913000
6	-3.166947000	0.569485000	5.270577000
8	-0.955856000	0.418704000	6.160287000
1	1.871188000	-1.180569000	0.800316000
1	0.359373000	-1.353732000	-3.224236000
1	-1.105010000	0.630910000	-2.817954000
1	-1.160424000	2.957808000	1.614898000
1	0.705278000	2.000416000	3.349488000
1	1.894633000	0.886237000	2.684047000
1	0.391114000	-1.045323000	3.151295000
1	0.734371000	-0.118063000	4.624106000
1	-1.812118000	0.128415000	3.145165000
1	-1.755884000	2.501708000	-0.786975000
1	-3.588295000	-0.189376000	5.937305000
1	-3.361380000	1.545283000	5.726013000
1	-3.681141000	0.516149000	4.305409000
6	1.308591000	-3.829574000	-1.254321000
1	1.237428000	-3.899667000	-0.166668000
1	0.322586000	-3.732491000	-1.722654000
8	2.086406000	-4.796760000	-1.768705000
1	1.766778000	-4.998298000	-2.701983000
8	1.137118000	-2.787079000	-4.997992000
1	1.316242000	-2.535159000	-5.915520000
1	2.006346000	-2.554299000	-4.450289000
8	3.075013000	-2.294286000	-3.483479000
1	2.516899000	-2.408309000	-2.385432000
1	3.745460000	-2.992159000	-3.525895000
8	0.992744000	-5.249875000	-4.123222000
1	1.511470000	-5.836327000	-4.693283000
1	0.986972000	-4.354962000	-4.588067000

1POD_B''''

6	1.282454000	-0.863069000	-1.454465000
6	1.257795000	-0.218029000	-0.220873000
6	0.249539000	0.726717000	0.035269000

6	0.305959000	-0.580702000	-2.438917000
6	-0.696794000	0.353687000	-2.206737000
6	-0.717765000	1.001000000	-0.969374000
6	-0.056255000	1.571796000	1.167106000
6	-1.167810000	2.300464000	0.812580000
7	-1.576504000	1.961032000	-0.462368000
8	2.275457000	-1.779816000	-1.673509000
6	0.671302000	1.622833000	2.481342000
6	0.368552000	0.422860000	3.403705000
7	-1.041559000	0.329918000	3.740620000
6	-1.513224000	0.416716000	5.021054000
6	-3.029726000	0.358759000	5.158806000
8	-0.784636000	0.521731000	6.001059000
1	2.027829000	-0.447197000	0.509787000
1	0.347698000	-1.107045000	-3.388111000
1	-1.439181000	0.567648000	-2.971607000
1	-1.697707000	3.057466000	1.375800000
1	-0.412955000	2.545071000	3.015563000
1	1.756031000	1.650983000	2.308496000
1	0.693955000	-0.507919000	2.920278000
1	0.905189000	0.519301000	4.350027000
1	-1.698454000	0.306550000	2.973164000
1	-2.331952000	2.396544000	-0.966993000
1	-3.294167000	-0.506672000	5.774506000
1	-3.369377000	1.252069000	5.691920000
1	-3.561236000	0.288745000	4.204023000
6	1.954849000	-4.240682000	-0.576208000
1	1.832047000	-3.671977000	0.361179000
1	1.118047000	-4.187102000	-1.293110000
8	2.943169000	-4.919321000	-0.781319000
1	3.022950000	-5.473185000	-2.555450000
8	0.141743000	-4.907899000	-3.698455000
1	-0.522401000	-5.168161000	-4.353494000
1	0.550923000	-4.088321000	-4.045343000
8	2.168495000	-3.026694000	-4.125328000
1	2.245235000	-2.110791000	-2.603300000
1	2.631178000	-2.653167000	-4.890495000
8	2.850160000	-5.492738000	-3.523713000
1	2.615691000	-3.911889000	-3.929151000
1	1.894054000	-5.702774000	-3.589267000

2ReaII

6	43.219075000	47.597348000	31.763620000
6	44.065572000	46.638525000	30.924275000
8	43.822277000	46.448796000	29.729483000
6	41.708486000	47.377667000	31.550340000
6	40.900914000	48.534105000	32.171748000
6	41.272397000	46.005415000	32.087169000
6	39.403619000	48.518925000	31.838922000
1	43.480741000	47.528038000	32.826299000
1	41.546698000	47.385938000	30.463607000
1	41.028497000	48.520357000	33.264201000
1	41.327965000	49.486253000	31.825643000
1	40.218268000	45.800138000	31.868899000
1	41.862806000	45.202152000	31.634228000
1	41.403210000	45.948252000	33.175987000
1	38.901489000	47.639084000	32.256229000
1	38.902300000	49.405988000	32.244994000
1	39.241592000	48.511800000	30.753074000
7	45.095370000	46.034383000	31.573186000
6	46.034428000	45.181054000	30.855952000
6	45.584569000	43.729378000	30.693417000
8	45.597181000	43.077957000	31.947943000
1	45.290007000	46.279461000	32.541761000
1	46.987065000	45.202781000	31.395965000
1	44.584925000	43.719947000	30.233198000
1	46.277636000	43.239501000	29.987906000
1	45.305916000	42.140272000	31.811279000
6	36.139429000	39.103105000	34.909639000
6	35.067969000	39.694004000	35.812706000
8	34.793853000	39.172913000	36.898813000
6	37.466156000	38.950139000	35.682961000
8	37.356075000	38.034259000	36.756610000
1	35.804747000	38.108239000	34.592353000
1	38.234763000	38.561129000	35.007890000
1	37.804069000	39.938014000	36.030699000
1	36.546821000	38.285800000	37.243124000
7	34.443842000	40.819846000	35.362560000
6	33.548118000	41.612460000	36.193722000
6	34.176539000	42.944001000	36.664192000
6	35.442424000	42.755636000	37.472153000
6	35.379736000	42.371118000	38.818660000
6	36.703045000	42.904048000	36.879097000
6	36.543602000	42.124092000	39.546753000
6	37.872502000	42.654522000	37.603040000
6	37.794958000	42.257879000	38.940015000
1	34.795798000	41.241226000	34.513918000
1	33.297536000	40.983809000	37.050664000
1	34.382581000	43.572959000	35.787186000
1	33.416528000	43.474395000	37.253702000
1	34.409631000	42.254645000	39.298183000
1	36.773255000	43.219091000	35.839544000
1	36.474315000	41.822133000	40.588477000

1	38.842157000	42.763666000	37.125582000	1	45.373077000	44.176563000	41.132200000
1	38.704820000	42.042200000	39.490809000	1	42.532126000	45.260110000	40.738915000
6	45.989337000	53.512411000	38.170169000	1	43.669134000	45.850988000	41.925741000
6	44.697457000	54.287112000	37.899818000	7	43.557327000	41.858678000	41.793840000
8	44.292717000	55.144079000	38.680143000	6	43.014262000	40.931423000	42.776877000
6	45.801203000	52.409525000	39.225220000	6	43.302092000	39.465374000	42.433472000
6	45.086771000	51.164711000	38.684755000	6	42.884025000	38.540488000	43.572138000
7	45.065722000	50.108064000	39.499936000	8	42.575070000	39.063365000	41.264283000
8	44.566304000	51.163026000	37.550468000	1	43.752864000	41.521860000	40.853509000
1	46.398170000	53.080114000	37.251538000	1	41.925138000	41.057382000	42.865579000
1	46.775886000	52.106766000	39.627735000	1	44.379960000	39.345197000	42.249575000
1	45.228154000	52.809654000	40.071851000	1	43.039935000	39.430929000	40.476675000
1	45.445775000	50.115518000	40.444966000	1	41.812463000	38.648180000	43.779287000
1	44.558075000	49.244411000	39.278238000	1	43.082631000	37.500135000	43.298829000
7	44.053097000	53.960094000	36.735977000	1	43.442460000	38.768511000	44.486336000
6	42.724720000	54.455847000	36.426483000	6	38.965161000	33.123525000	42.298322000
6	41.556376000	53.460950000	36.573218000	6	37.661727000	33.239125000	41.498396000
8	40.438124000	53.794757000	36.185733000	8	36.611674000	32.755405000	41.923728000
1	44.363809000	53.105645000	36.289821000	6	39.962483000	34.286274000	42.199678000
1	42.534700000	55.294927000	37.100889000	6	41.115248000	34.122059000	43.194665000
7	41.858441000	52.270319000	37.144703000	8	40.451364000	34.326830000	40.862177000
6	40.897166000	51.191453000	37.312513000	1	38.669051000	32.969191000	43.340257000
6	41.323343000	49.931131000	36.528720000	1	39.430033000	35.225358000	42.433072000
6	40.446296000	48.735541000	36.830016000	1	41.071050000	35.096514000	40.783583000
6	39.222125000	48.557109000	36.169583000	1	41.637411000	33.173020000	43.023946000
6	40.827177000	47.794688000	37.798685000	1	41.838929000	34.932746000	43.064578000
6	38.399743000	47.467939000	36.463645000	1	40.752521000	34.142254000	44.230270000
6	40.005950000	46.703217000	38.091985000	7	37.775715000	33.869009000	40.296407000
6	38.788983000	46.534820000	37.426890000	6	36.668582000	34.007055000	39.366748000
1	42.824968000	52.053323000	37.376799000	6	36.271924000	35.466849000	39.057537000
1	39.927902000	51.563442000	36.972247000	6	35.796279000	36.200065000	40.325891000
1	41.299619000	50.164652000	35.456643000	6	35.214681000	35.476030000	37.941865000
1	42.365066000	49.704521000	36.783333000	6	35.650087000	37.718808000	40.168435000
1	38.915957000	49.276724000	35.412557000	1	38.708810000	34.200218000	40.050929000
1	41.772961000	47.912103000	38.324179000	1	35.824162000	33.470052000	39.810173000
1	37.457646000	47.345064000	35.934044000	1	37.164852000	35.984443000	38.674789000
1	40.320886000	45.979335000	38.839641000	1	34.838222000	35.765410000	40.648877000
1	38.157002000	45.679723000	37.651237000	1	36.509482000	35.994326000	41.133418000
6	46.820611000	50.351680000	32.504177000	1	34.952301000	36.491886000	37.631914000
6	48.205843000	49.714979000	32.559406000	1	35.579854000	34.947639000	37.052209000
7	48.245929000	48.500947000	33.169499000	1	34.294660000	34.975264000	38.274537000
8	49.196091000	50.266818000	32.085459000	1	35.336492000	38.179976000	41.113178000
1	46.058788000	49.763785000	33.023090000	1	36.605015000	38.177767000	39.882142000
1	46.529830000	50.469215000	31.454630000	1	34.913755000	37.994815000	39.406044000
1	49.134840000	48.020881000	33.190563000	6	50.314192000	32.133239000	42.768921000
1	47.411777000	48.037152000	33.538381000	6	48.894016000	32.678302000	42.608148000
6	49.253129000	38.869761000	34.752481000	16	48.866090000	34.477839000	42.288895000
6	47.789695000	38.523559000	35.033420000	1	50.907841000	32.312594000	41.866198000
8	47.400015000	38.329030000	36.204479000	1	48.388575000	32.187907000	41.766651000
6	49.517221000	39.841190000	33.585637000	1	48.289638000	32.470891000	43.498734000
6	48.886979000	41.243256000	33.728113000	6	40.360070000	47.243862000	42.450564000
6	49.529141000	42.054248000	34.863849000	6	41.200321000	48.336524000	43.103627000
6	48.958039000	41.997834000	32.393205000	8	40.862771000	48.853681000	44.173049000
1	49.657004000	39.259596000	35.691626000	6	40.463103000	45.862525000	43.138084000
1	50.606679000	39.949701000	33.476160000	6	40.125487000	45.793625000	44.640681000
1	49.168953000	39.394437000	32.645930000	6	38.723206000	46.329337000	44.963418000
1	47.821063000	41.115293000	33.958925000	6	40.298269000	44.346230000	45.129985000
1	49.439008000	41.555675000	35.836540000	1	39.322876000	47.596229000	42.477868000
1	50.598666000	42.219301000	34.670823000	1	39.789400000	45.180473000	42.596565000
1	49.053002000	43.037291000	34.954529000	1	41.473831000	45.462047000	43.000108000
1	50.000703000	42.142819000	32.074430000	1	40.847069000	46.424649000	45.174964000
1	48.418160000	41.443267000	31.619595000	1	38.656719000	47.399784000	44.747739000
1	48.481795000	42.979988000	32.479620000	1	37.953068000	45.802626000	44.381292000
7	46.985627000	38.398445000	33.967202000	1	38.487380000	46.186713000	46.026350000
6	45.541371000	38.204877000	34.073237000	1	41.285246000	43.951119000	44.862847000
6	44.904162000	38.294581000	32.673605000	1	40.179862000	44.280215000	46.219526000
6	45.350363000	39.587863000	31.948215000	1	39.542453000	43.688887000	44.676828000
8	46.544960000	39.612936000	31.561082000	7	42.327441000	48.702367000	42.427850000
8	44.501274000	40.528367000	31.847474000	6	43.206057000	49.748264000	42.923794000
1	47.271333000	38.750795000	33.045440000	6	44.629355000	49.272304000	43.266686000
1	45.112658000	38.970547000	34.732726000	6	44.658519000	48.130411000	44.284632000
1	45.225508000	37.432958000	32.075679000	8	45.382291000	48.941368000	42.096258000
1	43.815350000	38.254136000	32.777992000	1	42.595178000	48.237240000	41.557042000
6	45.837106000	41.062531000	37.854892000	1	42.724807000	50.157869000	43.815799000
6	44.925404000	40.007349000	38.445212000	1	45.152357000	50.138846000	43.695150000
8	44.126338000	40.302086000	39.360438000	1	44.859402000	48.317903000	41.537791000
1	46.266523000	41.659206000	38.664245000	1	45.695221000	47.867973000	44.519810000
1	45.238370000	41.732741000	37.227841000	1	44.145435000	48.416923000	45.210437000
7	44.999304000	38.779996000	37.908250000	1	44.163088000	47.236754000	43.891151000
6	44.171828000	37.668308000	38.372875000	8	44.948448000	35.755861000	41.497159000
6	43.977063000	36.615059000	37.287665000	26	46.441657000	35.222579000	41.891253000
1	45.742524000	38.586514000	37.234220000	7	45.744974000	33.530132000	42.746940000
1	43.204551000	38.073911000	38.670102000	7	46.441380000	36.130099000	43.693841000
1	44.934038000	36.192201000	36.961641000	7	46.678562000	34.230605000	40.143084000
1	43.362965000	35.801786000	37.687515000	6	45.709536000	32.067583000	40.777092000
1	43.467981000	37.041597000	36.416236000	6	45.411249000	34.354108000	45.034280000
6	44.298029000	44.033591000	40.957460000	6	47.421102000	38.287088000	43.056002000
6	43.745365000	43.169567000	42.092549000	6	47.583875000	36.053294000	38.767419000
8	43.498161000	43.639212000	43.208657000	6	45.449872000	32.351710000	42.113595000
6	43.606097000	45.398400000	40.933047000	6	45.936364000	35.628698000	44.863794000
6	44.118761000	46.396838000	39.885342000	6	47.641228000	38.016145000	41.713586000
8	43.841282000	47.630409000	40.121996000	6	47.121496000	34.758443000	38.954573000
8	44.726595000	45.961492000	38.884923000	6	44.834105000	31.430319000	43.037053000

6	46.034461000	36.616483000	45.912241000	1	40.228415000	45.822945000	31.884186000
6	48.169760000	38.968285000	40.762911000	1	41.869216000	45.215934000	31.645714000
6	47.020760000	33.771375000	37.906126000	1	41.417407000	45.965415000	33.188209000
6	44.752185000	32.072979000	44.235678000	1	38.923302000	47.670559000	32.282377000
6	46.606638000	37.720293000	45.357018000	1	38.934950000	49.437496000	32.264793000
6	48.195112000	38.345167000	39.554324000	1	39.261055000	48.535964000	30.774352000
6	46.501747000	32.647364000	38.471104000	7	45.104265000	46.028388000	31.574697000
6	45.318028000	33.386100000	44.042686000	6	46.038196000	45.172114000	30.854331000
6	46.853441000	37.404774000	43.969702000	6	45.583663000	43.721695000	30.693929000
6	47.696389000	37.006432000	39.770650000	8	45.600114000	43.070487000	31.948545000
6	46.277143000	32.947519000	39.865468000	1	45.300315000	46.269237000	32.544037000
7	47.368873000	36.824909000	41.089296000	1	46.993075000	45.191154000	31.390520000
1	45.424416000	31.085584000	40.411448000	1	44.581857000	43.715006000	30.238247000
1	45.036504000	34.096135000	46.020326000	1	46.272032000	43.229653000	29.985386000
1	47.690853000	39.274781000	43.417152000	1	45.309109000	42.132655000	31.812788000
1	47.858629000	36.361806000	37.763766000	6	36.149580000	39.144049000	34.914470000
6	43.471421000	42.641622000	34.266162000	6	35.075870000	39.725741000	35.820831000
6	42.340282000	41.919722000	36.081696000	8	34.795266000	39.190740000	36.898473000
6	41.731016000	41.674678000	37.314830000	6	37.472216000	38.976313000	35.691866000
6	41.666713000	39.687551000	35.288986000	8	37.354539000	38.044713000	36.751061000
6	42.304812000	40.908722000	35.072330000	1	35.813541000	38.154629000	34.581935000
6	43.097233000	43.027474000	35.541663000	1	38.243329000	38.595913000	35.014823000
6	41.101378000	40.436474000	37.537633000	1	37.810489000	39.958130000	36.055432000
6	41.063021000	39.452666000	36.528718000	1	36.543110000	38.290786000	37.236695000
7	42.991127000	41.391140000	33.978292000	7	34.457325000	40.859672000	35.383346000
6	43.456012000	44.314529000	36.228203000	6	33.561318000	41.644475000	36.221570000
6	44.370121000	45.181074000	35.356779000	6	34.193966000	42.965505000	36.715439000
7	44.897996000	46.319781000	36.097128000	6	35.455191000	42.759377000	37.526259000
6	45.644585000	47.251377000	35.493813000	6	35.384775000	42.357994000	38.867410000
8	45.852187000	47.249938000	34.256157000	6	36.719163000	42.909004000	36.940536000
6	46.218263000	48.331663000	36.387290000	6	36.544322000	42.096401000	39.597396000
8	40.553458000	40.279453000	38.777142000	6	37.884228000	42.644724000	37.666223000
6	39.974922000	39.022248000	39.119732000	6	37.798887000	42.231880000	38.997772000
1	44.082095000	43.147168000	33.526497000	1	34.813796000	41.290872000	34.541539000
1	41.759662000	42.395385000	38.126110000	1	33.302269000	41.004312000	37.067414000
1	47.228026000	48.578950000	36.046717000	1	34.407058000	43.606666000	35.849010000
1	40.713227000	38.213607000	39.058816000	1	33.433703000	43.490489000	37.309430000
1	39.116326000	38.785687000	38.479474000	1	34.412073000	42.240100000	39.341279000
1	39.655528000	39.123282000	40.157703000	1	36.795476000	43.236818000	35.905384000
1	41.636914000	38.925187000	34.514597000	1	36.469113000	41.782145000	40.635055000
1	40.565069000	38.507206000	36.706534000	1	38.856344000	42.755129000	37.194090000
1	42.552660000	44.885829000	36.489845000	1	38.705253000	42.006546000	39.550399000
1	43.957772000	44.113293000	37.185072000	6	45.968122000	53.514542000	38.168401000
1	43.824503000	45.540587000	34.477580000	6	44.676197000	54.286261000	37.889983000
1	45.206021000	44.579799000	34.975708000	8	44.266399000	55.144830000	38.665898000
1	46.242704000	48.020716000	37.435053000	6	45.776045000	52.410448000	39.221539000
1	45.607540000	49.239290000	36.318356000	6	45.069564000	51.163185000	38.676016000
1	43.325292000	40.880119000	33.142529000	7	45.045558000	50.107267000	39.492081000
1	44.817264000	46.321415000	37.124557000	8	44.558476000	51.158757000	37.537433000
8	42.278586000	36.340423000	40.701931000	1	46.383928000	53.083743000	37.252185000
1	43.178797000	36.021099000	40.914714000	1	46.749014000	52.110523000	39.630271000
1	42.289553000	37.290768000	40.962880000	1	45.196315000	52.808191000	40.064732000
1	50.828996000	32.612217000	43.609214000	1	45.415818000	50.117955000	40.441059000
1	50.291078000	31.051170000	42.957261000	1	44.544231000	49.241093000	39.266707000
1	48.486420000	38.725303000	38.584156000	7	44.037608000	53.954442000	36.724349000
1	48.459103000	39.982641000	41.007191000	6	42.709338000	54.446067000	36.408099000
1	46.841975000	38.668415000	45.823882000	1	41.542379000	53.449934000	36.557258000
1	45.701870000	36.468078000	46.932012000	8	40.423775000	53.780711000	36.168283000
1	44.342933000	31.709975000	45.170204000	1	44.352591000	53.099607000	36.281835000
1	44.506524000	30.430005000	42.782790000	1	42.515613000	55.288528000	37.077189000
1	46.271816000	31.699047000	38.001546000	7	41.845976000	52.261646000	37.132973000
1	47.310724000	33.940300000	36.876870000	6	40.886526000	51.181558000	37.302668000
1	43.446925000	41.184859000	43.750780000	6	41.309380000	49.923442000	36.513509000
1	44.205094000	43.530139000	39.990298000	6	40.434846000	48.726640000	36.817378000
1	43.283500000	50.548134000	42.174386000	6	39.200668000	48.555902000	36.173593000
1	40.630774000	47.132228000	41.393558000	6	40.827469000	47.778064000	37.773710000
1	36.299192000	39.711544000	34.010540000	6	38.379573000	47.467197000	36.472775000
1	32.623934000	41.816441000	35.637026000	6	40.007855000	46.686597000	38.071501000
1	36.925828000	33.502420000	38.423502000	6	38.780505000	46.526466000	37.423769000
1	39.481709000	32.210092000	41.969044000	1	42.813174000	52.045964000	37.363275000
1	46.186753000	45.608309000	29.858605000	1	39.915286000	51.553622000	36.968216000
1	43.482525000	48.614406000	31.439614000	1	41.279550000	50.159560000	35.442130000
1	46.873435000	51.353753000	32.941995000	1	42.352680000	49.696992000	36.761785000
1	40.807654000	50.943555000	38.378392000	1	38.885119000	49.281669000	35.426370000
1	42.682255000	54.837615000	35.400204000	1	41.780278000	47.890479000	38.287432000
1	46.707357000	54.244021000	38.553887000	1	37.428078000	47.351150000	35.958585000
1	44.619412000	37.214919000	39.264947000	1	40.331603000	45.956969000	38.809727000
1	46.635462000	40.631072000	37.246355000	1	38.148390000	45.672909000	37.653478000
1	45.330229000	37.232845000	34.534406000	6	46.829321000	50.349786000	32.518655000
1	49.779659000	37.922928000	34.562510000	6	48.213888000	49.711565000	32.572624000
				7	48.253298000	48.497261000	33.182308000
				8	49.204473000	50.262995000	32.098945000
				1	46.066243000	49.760277000	33.033868000
				1	46.540072000	50.472675000	31.469320000
				1	49.141294000	48.015332000	33.199990000
				1	47.418221000	48.031370000	33.546425000
				6	49.263824000	38.873543000	34.748853000
				6	47.801289000	38.525061000	35.031528000
				8	47.412764000	38.332501000	36.203255000
				6	49.525418000	39.842648000	33.579521000
				6	46.892813000	41.243946000	33.718854000
				6	49.533766000	42.058753000	34.852510000
				6	48.962364000	41.995359000	32.382062000

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6	43.238751000	47.603469000	31.770121000
6	44.077896000	46.640807000	30.927934000
8	43.832481000	46.455577000	29.732892000
6	41.726389000	47.392216000	31.561094000
6	40.927526000	48.553427000	32.184747000
6	41.284193000	46.022591000	32.099664000
6	39.428554000	48.545834000	31.859355000
1	43.503010000	47.532220000	32.832000000
1	41.561299000	47.401238000	30.474853000
1	41.060290000	48.540315000	33.276586000
1	41.357929000	49.502897000	31.835465000

1	49.667461000	39.266397000	35.686834000	6	40.457482000	45.833657000	43.099759000
1	50.614617000	39.952813000	33.469148000	6	40.098198000	45.765091000	44.597287000
1	49.177419000	39.393000000	32.641098000	6	38.680170000	46.272975000	44.894930000
1	47.827145000	41.114802000	33.950115000	6	40.294098000	44.323954000	45.096079000
1	49.444461000	41.562424000	35.826420000	1	39.296611000	47.545678000	42.418476000
1	50.603019000	42.225039000	34.659041000	1	39.805091000	45.136419000	42.551568000
1	49.056050000	43.041248000	34.940778000	1	41.477558000	45.451757000	42.978775000
1	50.004740000	42.142025000	32.063123000	1	40.797771000	46.413798000	45.139604000
1	48.424036000	41.437389000	31.609792000	1	38.595098000	47.340879000	44.673032000
1	48.483627000	42.976489000	32.465956000	1	37.930403000	45.728089000	44.303073000
7	46.996645000	38.395793000	33.966176000	1	38.430198000	46.130428000	45.954617000
6	45.552852000	38.199631000	34.074070000	1	41.296944000	43.952776000	44.854887000
6	44.913934000	38.286266000	32.675027000	1	40.150136000	44.258084000	46.182573000
6	45.357004000	39.579577000	31.947855000	1	39.567338000	43.646207000	44.625768000
8	46.550554000	39.605819000	31.557883000	7	42.286214000	48.694473000	42.395694000
8	44.506641000	40.519275000	31.849139000	6	43.147775000	49.752161000	42.896379000
1	47.281029000	38.746694000	33.043548000	6	44.571863000	49.292113000	43.257377000
1	45.123537000	38.965320000	34.733142000	6	44.601292000	48.158217000	44.284118000
1	45.236322000	37.424526000	32.077861000	8	45.339311000	48.958680000	42.097064000
1	43.825307000	38.243847000	32.780651000	1	42.569342000	48.227019000	41.531086000
6	45.857610000	41.062461000	37.859391000	1	42.652189000	50.161167000	43.780796000
6	44.942189000	40.009797000	38.448525000	1	45.082998000	50.166444000	43.684313000
8	44.143127000	40.306582000	39.363068000	1	44.827468000	48.326856000	41.537595000
1	46.291129000	41.655065000	38.669553000	1	45.638277000	47.901559000	44.524259000
1	45.260891000	41.736984000	37.235129000	1	44.084726000	48.450471000	45.206206000
7	45.013195000	38.782272000	37.911471000	1	44.109242000	47.260063000	43.896824000
6	44.183043000	37.672641000	38.376087000	8	44.948370000	35.762396000	41.503245000
6	43.988784000	36.618166000	37.292087000	26	46.443458000	35.216629000	41.876610000
1	45.755880000	38.587203000	37.237334000	7	45.739405000	33.523981000	42.727831000
1	43.215806000	38.080014000	38.670922000	7	46.446055000	36.118862000	43.685218000
1	44.945555000	36.192268000	36.969474000	7	46.677252000	34.231457000	40.129051000
1	43.371883000	35.806873000	37.691647000	6	45.700631000	32.068407000	40.754201000
1	43.482898000	37.044378000	36.418656000	6	45.410159000	34.341278000	45.018661000
6	44.327598000	44.033794000	40.972369000	6	47.430608000	38.275038000	43.054027000
6	43.774024000	43.167411000	42.105130000	6	47.593349000	36.053628000	38.759194000
8	43.524414000	43.635072000	43.221477000	6	45.439269000	32.349019000	42.091105000
6	43.627616000	45.394418000	40.944062000	6	45.937890000	35.615408000	44.852600000
6	44.126101000	46.389162000	39.886101000	6	47.651662000	38.007258000	41.711285000
8	43.836950000	47.621763000	40.113274000	6	47.127872000	34.759648000	38.943066000
8	44.733623000	45.951389000	38.886473000	6	44.819602000	31.427120000	43.011463000
1	45.401018000	44.182898000	41.151763000	6	46.034975000	36.600662000	45.903803000
1	42.553401000	45.248196000	40.757760000	6	48.185606000	38.960524000	40.764723000
1	43.693877000	45.853737000	41.933489000	6	47.029975000	33.774205000	37.893124000
7	43.587092000	41.856913000	41.803863000	6	44.741570000	32.065926000	44.212387000
6	43.040011000	40.928295000	42.783527000	6	46.609596000	37.705021000	45.352314000
6	43.318570000	39.462086000	42.433558000	6	48.210789000	38.341550000	39.554021000
6	42.898305000	38.535586000	43.570174000	6	46.505772000	32.650600000	38.454067000
8	42.585978000	39.068499000	41.264998000	6	45.313068000	33.377325000	44.023614000
1	43.782225000	41.522235000	40.862685000	6	46.858987000	37.392019000	43.964696000
1	41.951900000	41.060777000	42.874533000	6	47.706719000	37.004024000	39.765049000
1	44.395232000	39.336324000	42.246339000	6	46.275044000	32.948969000	39.847622000
1	43.050389000	39.436788000	40.477562000	7	47.375331000	36.819235000	41.081951000
1	41.827663000	38.647750000	43.779750000	1	45.413514000	31.088556000	40.384411000
1	43.091691000	37.495233000	43.293366000	1	45.034472000	34.080888000	46.003728000
1	43.459648000	38.758144000	44.483920000	1	47.702722000	39.261013000	43.418120000
6	38.954757000	33.153466000	42.319521000	1	47.871392000	36.363239000	37.756822000
6	37.648983000	33.274097000	41.524216000	6	43.478735000	42.628797000	34.269680000
8	36.597983000	32.797227000	41.954853000	6	42.349584000	41.904447000	36.085563000
6	39.958785000	34.309800000	42.213469000	6	41.740781000	41.657956000	37.318501000
6	41.114423000	34.141150000	43.204375000	6	41.676859000	39.672448000	35.291003000
8	40.442640000	34.343450000	40.873964000	6	42.314218000	40.894285000	35.075313000
1	38.661746000	33.004156000	43.363058000	6	43.105263000	43.013387000	35.545724000
1	39.433115000	35.252844000	42.446272000	6	41.111264000	40.419168000	37.540165000
1	41.066921000	35.108957000	40.790707000	6	41.073422000	39.436109000	36.530506000
1	41.630038000	33.188460000	43.034135000	7	42.999377000	41.377999000	33.981348000
1	41.842616000	34.946980000	43.069416000	6	43.462895000	44.300798000	36.232129000
1	40.755922000	34.166378000	44.241332000	6	44.374510000	45.169402000	35.359941000
7	37.761714000	33.899966000	40.319951000	7	44.900367000	46.309065000	36.100261000
6	36.652138000	34.038737000	39.393316000	6	45.648961000	47.239723000	35.497844000
6	36.261881000	35.498669000	39.076645000	8	45.859828000	47.236846000	34.260766000
6	35.797595000	36.242979000	40.342649000	6	46.220365000	48.320962000	36.391665000
6	35.198449000	35.505476000	37.966800000	8	40.563217000	40.261145000	38.779229000
6	35.654656000	37.760998000	40.175289000	6	39.982473000	39.004413000	39.120315000
1	38.695852000	34.224341000	40.069399000	1	44.088222000	43.135548000	33.529866000
1	35.806410000	33.508986000	39.842928000	1	41.769428000	42.377613000	38.130690000
1	37.155510000	36.008693000	38.685330000	1	47.230681000	48.568520000	36.052997000
1	34.840577000	35.813767000	40.675901000	1	40.719699000	38.194694000	39.060501000
1	36.516004000	36.040785000	41.146459000	1	39.124453000	38.769526000	38.478687000
1	34.938691000	36.520309000	37.651330000	1	39.661380000	39.105687000	40.157736000
1	35.556156000	34.969377000	37.078721000	1	41.647449000	38.910793000	34.515917000
1	34.278042000	35.011198000	38.307952000	1	40.576438000	38.490058000	36.707827000
1	35.349947000	38.229445000	41.119371000	1	42.558741000	44.870452000	36.494707000
1	36.608182000	38.215732000	39.877960000	1	43.965908000	44.100345000	37.188539000
1	34.912784000	38.033619000	39.417076000	1	43.827364000	45.527780000	34.481181000
6	50.304299000	32.114085000	42.745948000	1	45.211429000	44.570030000	34.978126000
6	48.885632000	32.662731000	42.584154000	1	46.242749000	48.010757000	37.439698000
16	48.862023000	34.465412000	42.281889000	1	45.609225000	49.228196000	36.320603000
1	50.902164000	32.301077000	41.847550000	1	43.333273000	40.867947000	33.144589000
1	48.383496000	32.180675000	41.735888000	1	44.818732000	46.311032000	37.127724000
1	48.277302000	32.447684000	43.470210000	8	42.280282000	36.346707000	40.699947000
6	40.339396000	47.209568000	42.404067000	1	43.178753000	36.024408000	40.915772000
6	41.156378000	48.317511000	43.060789000	1	42.294111000	37.297063000	40.960886000
8	40.799864000	48.835139000	44.123743000	1	50.816068000	32.584515000	43.592905000

1	50.278917000	31.030297000	42.924031000
1	48.505543000	38.723781000	38.585734000
1	48.478695000	39.972804000	41.013135000
1	46.844900000	38.651914000	45.821692000
1	45.699669000	36.450409000	46.922416000
1	44.331631000	31.701384000	45.146020000
1	44.487477000	30.429150000	42.753903000
1	46.275921000	31.703446000	37.982132000
1	47.325158000	33.943993000	36.865497000
1	43.475572000	41.174622000	43.758002000
1	44.241255000	43.529986000	40.004810000
1	43.225400000	50.549111000	42.143892000
1	40.623109000	47.097228000	41.350554000
1	36.315188000	39.764455000	34.024677000
1	32.641469000	41.861907000	35.662809000
1	36.903144000	33.527133000	38.452129000
1	39.464587000	32.235936000	41.991173000
1	46.187532000	45.598888000	29.856385000
1	43.506847000	48.619211000	31.445797000
1	46.882426000	51.349699000	32.961396000
1	40.802851000	50.930937000	38.368336000
1	42.669386000	54.821978000	35.379562000
1	46.681784000	54.247677000	38.557221000
1	44.628123000	37.219782000	39.269819000
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1	40.776231000	40.841069000	39.629464000	6	49.545215000	43.898647000	38.028980000
1	41.373578000	40.597169000	41.275128000	8	48.985485000	44.579062000	38.907266000
1	39.553531000	42.089764000	41.821614000	1	50.313019000	45.465609000	36.790559000
7	42.618688000	44.078347000	42.240439000	1	48.923591000	44.613929000	36.106523000
6	42.709669000	44.835749000	43.485621000	7	49.892588000	42.613951000	38.221485000
6	43.949692000	44.473297000	44.326785000	6	49.632793000	41.913565000	39.477918000
6	43.931059000	43.070378000	44.899056000	6	49.500681000	40.409971000	39.246502000
6	43.061604000	42.742004000	45.950331000	1	50.384598000	42.123980000	37.473518000
6	44.778513000	42.071915000	44.398563000	1	48.721336000	42.321873000	39.924249000
6	43.034405000	41.455937000	46.489638000	1	50.406028000	39.993173000	38.787571000
6	44.756376000	40.783123000	44.941655000	1	49.338862000	39.899422000	40.202176000
6	43.886123000	40.469042000	45.986536000	1	48.652366000	40.185610000	38.590657000
1	43.258224000	44.342839000	41.488469000	6	46.199551000	46.547737000	37.697897000
1	41.793678000	44.632613000	44.043978000	6	46.531245000	47.401291000	38.916404000
1	44.850375000	44.627646000	43.723003000	8	45.859790000	48.394698000	39.240330000
1	43.997181000	45.202644000	45.148339000	6	45.562586000	45.201136000	38.131020000
1	42.397119000	43.505424000	46.350915000	6	44.259347000	45.426727000	38.911404000
1	45.460606000	42.297511000	43.580267000	8	44.371401000	45.528831000	40.186536000
1	42.350805000	41.224944000	47.303415000	8	43.188805000	45.554043000	38.270529000
1	45.427041000	40.024521000	44.544456000	1	45.512380000	47.102221000	37.053865000
1	43.870423000	39.465943000	46.406391000	1	45.346179000	44.623822000	37.230562000
6	42.837813000	51.722732000	36.182132000	1	46.279093000	44.636916000	38.734520000
6	41.570614000	52.533315000	36.474854000	7	47.573156000	46.933656000	39.637559000
8	41.630604000	53.673522000	36.925728000	6	47.824741000	47.270321000	41.028573000
6	43.289738000	50.837870000	37.363866000	6	47.749359000	46.006947000	41.903832000
6	42.561837000	49.493910000	37.454108000	6	48.214425000	46.282769000	43.330649000
7	43.223732000	48.518955000	38.083134000	8	46.423822000	45.474526000	41.987990000
8	41.417611000	49.331630000	36.980260000	1	48.087517000	46.127372000	39.267911000
1	42.707805000	51.104591000	35.286668000	1	47.084300000	48.011988000	41.339863000
1	44.367982000	50.652102000	37.300992000	1	48.406436000	45.250405000	41.448683000
1	43.132896000	51.378121000	38.307558000	1	45.887443000	45.606744000	41.165240000
1	44.172368000	48.628570000	38.456709000	1	47.604838000	47.068945000	43.791007000
1	42.794915000	47.602300000	38.209638000	1	48.115220000	45.376718000	43.936610000
7	40.395543000	51.890476000	36.190738000	1	49.265182000	46.595598000	43.345820000
6	39.113418000	52.417143000	36.617522000	6	36.845603000	39.354800000	44.503283000
6	38.434478000	51.717052000	37.810966000	6	35.518480000	39.402732000	43.733704000
8	37.315897000	52.086150000	38.162532000	8	34.444382000	39.599416000	44.300595000
1	40.481207000	50.893672000	36.013212000	6	38.001308000	40.141472000	43.861988000
1	39.271981000	53.462497000	36.894489000	6	39.189124000	40.309619000	44.810923000
7	39.145340000	50.726545000	38.407587000	8	38.400867000	39.441771000	42.676260000
6	38.621793000	49.918272000	39.497549000	1	36.634143000	39.741344000	45.503946000
6	38.471764000	48.438098000	39.085123000	1	37.628783000	41.140998000	43.586066000
6	38.048130000	47.554318000	40.238101000	1	38.847549000	40.085355000	42.069390000
6	36.710750000	47.528754000	40.659343000	1	39.596509000	39.329771000	45.087495000
6	38.980101000	46.757355000	40.921233000	1	39.981297000	40.895555000	44.333347000
6	36.310511000	46.730173000	41.731779000	1	38.889296000	40.833930000	45.726763000
6	38.582060000	45.947151000	41.990169000	7	35.647205000	39.198777000	42.392822000
6	37.245542000	45.934471000	42.398668000	6	34.564494000	39.367134000	41.440620000
1	40.012985000	50.413820000	37.980988000	6	34.935131000	40.347287000	40.307737000
1	37.657966000	50.347846000	39.780381000	6	35.133805000	41.784973000	40.830800000
1	37.736647000	48.380875000	38.272075000	6	33.883081000	40.280490000	39.190959000
1	39.426510000	48.090374000	38.673248000	6	35.987797000	42.673869000	39.917764000
1	35.975699000	48.136292000	40.134741000	1	36.605897000	39.120546000	42.055170000
1	40.023440000	46.762854000	40.609946000	1	33.695114000	39.723642000	42.002767000
1	35.267781000	46.722500000	42.040914000	1	35.895256000	40.007394000	39.886439000
1	39.304837000	45.303729000	42.484729000	1	34.145413000	42.241577000	40.990785000
1	36.934683000	45.300069000	43.224892000	1	35.611239000	41.740734000	41.817238000
6	40.273588000	46.655263000	30.477272000	1	34.126648000	40.962376000	38.369238000
6	40.799781000	45.494460000	29.631299000	1	33.805664000	39.269242000	38.772395000
7	41.513110000	44.570516000	30.320302000	1	32.892286000	40.560614000	39.573192000
8	40.580465000	45.440040000	28.422849000	1	36.038254000	43.698263000	40.303417000
1	40.490716000	46.546413000	31.543721000	1	37.015453000	42.295221000	39.860624000
1	39.190686000	46.732464000	30.334729000	1	35.585724000	42.725139000	38.898165000
1	41.881819000	43.749091000	29.844098000	6	41.451973000	32.171448000	39.377166000
1	41.650900000	44.647744000	31.324370000	6	41.881442000	33.635190000	39.510755000
6	52.282234000	41.780216000	33.646883000	16	42.749457000	34.197311000	37.992477000
6	51.525101000	41.068236000	34.772482000	1	40.777659000	32.033995000	38.524393000
8	51.419891000	41.590655000	35.894901000	1	41.007337000	34.271051000	39.685960000
6	51.714992000	41.606092000	32.224655000	1	42.550561000	33.751169000	40.369687000
6	50.275129000	42.122274000	32.014145000	6	39.624217000	49.305716000	44.530731000
6	50.197602000	43.655033000	32.076877000	6	40.757431000	49.978094000	43.758468000
6	49.705363000	41.586416000	30.692535000	8	41.242194000	51.051631000	44.122301000
1	52.326400000	42.835748000	33.931648000	6	40.096117000	48.656999000	45.851367000
1	52.385174000	42.125964000	31.523513000	6	40.757945000	49.590643000	46.885643000
1	51.754309000	40.547666000	31.938108000	6	39.849892000	50.762208000	47.286994000
1	49.647740000	41.714834000	32.818623000	6	41.184763000	48.778606000	48.118210000
1	50.556863000	44.051461000	33.034161000	1	38.876086000	50.077854000	44.738769000
1	50.801081000	44.109599000	31.278612000	1	39.223116000	48.175523000	46.317430000
1	49.164537000	43.998040000	31.946253000	1	40.797171000	47.845377000	45.610223000
1	50.314863000	41.915283000	29.838210000	1	41.656227000	50.019027000	46.424896000
1	49.675347000	40.492438000	30.711979000	1	39.680182000	51.431202000	46.438646000
1	48.680517000	41.941242000	30.537376000	1	38.877106000	50.406427000	47.655725000
7	51.041760000	39.846230000	34.483690000	1	40.311547000	51.353141000	48.088273000
6	50.173654000	39.101590000	35.390098000	1	41.857204000	47.955909000	47.844984000
6	49.672234000	37.823817000	34.691568000	1	41.707879000	49.410105000	48.847251000

1	40.313128000	48.340151000	48.623966000	1	42.552880000	42.501219000	40.194545000	
7	41.192602000	49.292635000	42.665688000	1	42.731717000	45.898264000	43.227527000	
6	42.310545000	49.705041000	41.831365000	1	34.294062000	38.393731000	41.003126000	
6	43.351688000	48.585784000	41.693706000	1	37.165311000	38.308510000	44.611228000	
6	44.153283000	48.358540000	42.978906000	1	44.749393000	40.085435000	28.800236000	
8	42.624815000	47.420018000	41.305868000	1	42.249912000	42.285230000	32.326939000	
1	40.777872000	48.398500000	42.437099000	1	40.715484000	47.589546000	30.113551000	
1	42.740307000	50.601235000	42.284578000	1	39.289966000	49.991424000	40.365513000	
1	44.049574000	48.875830000	40.897731000	1	38.391444000	52.399305000	35.792703000	
1	43.236737000	46.762223000	40.896372000	1	43.619896000	52.458869000	35.978372000	
1	44.830522000	47.506357000	42.856872000	1	50.450204000	42.113811000	40.186994000	
1	44.753323000	49.244969000	43.222758000	1	50.525159000	43.834695000	36.079060000	
1	43.486727000	48.156774000	43.825309000	1	50.722469000	38.849070000	36.305666000	
8	44.137627000	38.180885000	38.487536000	1	53.318965000	41.413654000	33.669580000	
26	43.464508000	36.478486000	38.343662000	2IM1C6,II				
7	41.841550000	36.954298000	39.392823000	6	41.464714000	42.393825000	31.361866000	
7	44.391827000	35.884189000	40.047787000	6	42.507762000	42.265228000	30.256897000	
7	42.525054000	36.973840000	36.626317000	8	42.528733000	43.005010000	29.268137000	
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6	46.503943000	35.067796000	39.090256000	6	39.508309000	41.460385000	30.043473000	
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6	40.654803000	37.433755000	38.893598000	1	41.467773000	41.495418000	31.995727000	
6	43.917287000	36.011831000	41.324917000	1	40.110139000	43.519409000	30.155266000	
6	46.242574000	35.337185000	37.751608000	1	39.031908000	42.216409000	32.706502000	
6	43.055679000	36.961668000	35.362460000	1	39.614907000	43.870336000	32.567260000	
6	39.751572000	37.736995000	39.976999000	1	38.523890000	41.666149000	29.608589000	
6	44.896010000	35.523165000	42.267269000	1	40.183779000	41.208093000	29.218522000	
6	47.183941000	35.127123000	36.675230000	1	39.411488000	40.574461000	30.686847000	
6	42.075633000	37.435706000	34.410524000	1	37.143796000	42.730242000	31.117735000	
6	40.405896000	37.448916000	41.135358000	1	37.152345000	43.877621000	32.461956000	
6	45.965262000	35.097902000	41.537210000	1	37.784362000	44.364320000	30.880767000	
6	46.581718000	35.564201000	35.532367000	7	43.436599000	41.288670000	30.437549000	
6	40.950316000	37.725495000	35.117242000	6	44.641875000	41.202042000	29.624127000	
6	41.709970000	36.954589000	40.763496000	6	45.497572000	40.046664000	30.131762000	
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6	45.267248000	36.026182000	35.912654000	1	43.512186000	40.847009000	31.345436000	
6	41.246560000	37.439352000	36.503602000	1	45.207283000	42.142281000	29.684054000	
7	45.086910000	35.882922000	37.260364000	1	44.975459000	39.092423000	29.948919000	
1	39.375469000	38.027816000	37.312797000	1	46.442338000	40.023215000	29.567373000	
1	42.420443000	36.580565000	42.723643000	1	46.131558000	39.448812000	31.931711000	
1	47.470585000	34.634807000	39.330968000	6	40.665775000	41.514049000	40.576441000	
1	44.622249000	36.601765000	33.977608000	6	40.950334000	42.443883000	41.749016000	
6	45.823643000	40.964589000	34.285225000	8	40.050583000	42.706583000	42.573703000	
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6	44.895716000	41.398580000	37.792193000	8	38.595202000	40.682888000	41.598108000	
6	46.260318000	38.952110000	37.206202000	1	40.084638000	42.085505000	39.840511000	
6	45.991004000	39.859913000	36.213418000	1	39.639927000	39.648531000	40.172554000	
6	45.180451000	41.774357000	35.221955000	1	40.435585000	39.709557000	41.750419000	
6	45.121176000	40.482955000	38.792641000	1	38.816915000	41.476150000	42.145865000	
6	45.687671000	39.167204000	38.509276000	7	42.189492000	42.966151000	41.824283000	
7	46.311475000	39.833265000	34.864998000	6	42.595416000	43.978236000	42.803327000	
6	44.545280000	43.108161000	34.943754000	6	43.819331000	43.566679000	43.629671000	
6	43.089701000	43.225727000	35.453217000	6	43.678886000	42.358021000	44.539779000	
7	42.606496000	44.598911000	35.484011000	6	42.463689000	41.981791000	45.130788000	
6	42.043594000	45.190023000	34.409092000	6	44.826019000	41.607264000	44.845591000	
8	41.899341000	44.605725000	33.322001000	6	42.403451000	40.902591000	46.016515000	
6	41.580161000	46.623878000	34.597267000	6	44.768560000	40.532407000	45.733777000	
8	44.765901000	40.857718000	40.058988000	6	43.555119000	40.177671000	46.328844000	
6	44.790651000	39.881139000	41.108242000	1	42.867292000	42.679442000	41.126535000	
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1	44.436114000	42.346850000	38.047493000	1	44.675361000	43.408319000	42.962032000	
1	42.134525000	47.268979000	33.906664000	1	44.088410000	44.442594000	44.238826000	
1	45.823180000	39.644317000	41.393170000	1	41.550007000	42.515225000	44.885329000	
1	44.262015000	38.977730000	40.797821000	1	45.765673000	41.867056000	44.363146000	
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1	46.149711000	38.635930000	39.332547000	1	43.506588000	39.342045000	47.023145000	
1	45.133082000	43.910742000	35.409005000	6	43.819505000	52.966486000	36.549105000	
1	44.557228000	43.312932000	33.867230000	6	42.426405000	53.557809000	36.792059000	
1	43.007790000	42.836648000	36.470078000	8	42.263986000	54.526703000	37.527627000	
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1	40.522875000	46.687882000	34.320081000	7	44.189702000	49.490532000	37.960360000	
1	46.810979000	39.083782000	34.358960000	8	42.644929000	50.361191000	36.550652000	
1	42.738093000	45.108152000	36.361958000	1	43.898952000	52.547993000	35.539847000	
8	46.708957000	42.620628000	41.559109000	1	45.309538000	51.805775000	37.627996000	
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1	46.572146000	43.578787000	41.717589000	1	45.049781000	49.564859000	38.509611000	
1	42.319362000	31.518945000	39.226977000	1	43.849675000	48.538892000	37.794740000	
1	40.926012000	31.841357000	40.283990000	7	41.406955000	52.931373000	36.125015000	
1	46.981136000	35.622854000	34.528161000	6	40.013698000	53.210747000	36.419316000	
1	48.176857000	34.711971000	36.797536000	6	39.253247000	52.170672000	37.267323000	
1	46.895298000	34.669049000	41.889785000	8	38.062126000	52.354284000	37.508837000	
1	44.764959000	35.513621000	43.342352000	1	41.648011000	52.032515000	35.719819000	
1	40.045917000	37.590311000	42.145652000	1	39.983780000	54.159232000	36.961120000	
1	38.755029000	38.141398000	39.855365000	7	39.977494000	51.107999000	37.696908000	
1	40.002965000	38.104664000	34.755036000	6	39.426447000	50.021628000	38.491026000	
1	42.245659000	37.521713000	33.344482000	6	39.460713000	48.676029000	37.730081000	
1	48.822482000	47.718630000	41.135928000	6	39.178956000	47.502024000	38.642281000	
1	47.112819000	46.336942000	37.128884000	6	37.867711000	47.165296000	39.009329000	
1	41.939931000	49.963858000	40.830613000	6	40.236681000	46.760842000	39.189785000	
1	39.135293000	48.538987000	43.918081000					

6	37.617018000	46.121987000	39.903742000	1	38.103570000	39.661028000	46.312131000
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6	38.678096000	45.397170000	40.453790000	6	33.859691000	38.426017000	41.824683000
1	40.937581000	50.997707000	37.382900000	6	34.191834000	39.498256000	40.765890000
1	38.403784000	50.299433000	38.756201000	6	34.321012000	40.903171000	41.389662000
1	38.735151000	48.719030000	36.907722000	6	33.148958000	39.460979000	39.639257000
1	40.453406000	48.562625000	37.278467000	6	35.130699000	41.892112000	40.541445000
1	37.035302000	47.726592000	38.588583000	1	35.905383000	38.219303000	42.444986000
1	41.265133000	46.985727000	38.916270000	1	32.971432000	38.702035000	42.402351000
1	36.592145000	45.875028000	40.171500000	1	35.168562000	39.232471000	40.330369000
1	40.827777000	45.173134000	40.505125000	1	33.312486000	41.300489000	41.578405000
1	38.496692000	44.587395000	41.155578000	1	34.801474000	40.812933000	42.371452000
6	40.995166000	48.118382000	30.405242000	1	33.368134000	40.202165000	38.863253000
6	41.336683000	46.943950000	29.486981000	1	33.115512000	38.475950000	39.157412000
7	41.824032000	45.848312000	30.118815000	1	32.145548000	39.675753000	40.030709000
8	41.185253000	47.028863000	28.269798000	1	35.130561000	42.889663000	40.996780000
1	40.997379000	47.854905000	31.466842000	1	36.174728000	41.567068000	40.459662000
1	40.009792000	48.505213000	30.128578000	1	34.725302000	41.996414000	39.527555000
1	42.050997000	45.012651000	29.582848000	6	42.728898000	32.050800000	41.311005000
1	41.912728000	45.799123000	31.131503000	6	42.649396000	33.529929000	40.924437000
6	51.771560000	41.357077000	33.338817000	16	44.315311000	34.172269000	40.487995000
6	50.956452000	40.750414000	34.485219000	1	43.120972000	31.448720000	40.483249000
8	50.998730000	41.244721000	35.624370000	1	41.977158000	33.656896000	40.069700000
6	51.112118000	41.334160000	31.947152000	1	42.238166000	34.111538000	41.756023000
6	49.783488000	42.113937000	31.833757000	6	39.415784000	48.588031000	43.427797000
6	50.001859000	43.633238000	31.894984000	6	40.736667000	49.264796000	43.065785000
6	49.032416000	41.705143000	30.558510000	8	41.140903000	50.259243000	43.673816000
1	52.015337000	42.378529000	33.645659000	6	39.498132000	47.750351000	44.723595000
1	51.828932000	41.745082000	31.220639000	6	39.927754000	48.493610000	46.005227000
1	50.941861000	40.295897000	31.635703000	6	39.029130000	49.699400000	46.316322000
1	49.149173000	41.825785000	32.683603000	6	39.963070000	47.512009000	47.186776000
1	50.503976000	43.944362000	32.818976000	1	38.671164000	49.382766000	43.542605000
1	50.615605000	43.973859000	31.049517000	1	38.509140000	47.297928000	44.891955000
1	49.045526000	44.167033000	31.844954000	1	40.188988000	46.912299000	44.554719000
1	49.641261000	41.895925000	29.663205000	1	40.942371000	48.878574000	45.845805000
1	48.778888000	40.640862000	30.597704000	1	39.138016000	50.470155000	45.548242000
1	48.098223000	42.269689000	30.456914000	1	37.971190000	49.405692000	46.375633000
7	50.252725000	39.641166000	34.193033000	1	39.302458000	50.147863000	47.280079000
6	49.332062000	39.013486000	35.134714000	1	40.624558000	46.660656000	46.983469000
6	48.608108000	37.841506000	34.447541000	1	40.321440000	48.003980000	48.099869000
6	47.932732000	38.285671000	33.132893000	1	38.962105000	47.110314000	47.397264000
8	48.687763000	38.592093000	32.181759000	7	41.422077000	48.678866000	42.047860000
8	46.654809000	38.338439000	33.117024000	6	42.732856000	49.108570000	41.587404000
1	50.080015000	39.367523000	33.221536000	6	43.753758000	47.959400000	41.643842000
1	48.605831000	39.754790000	35.495256000	6	44.202349000	47.624605000	43.067977000
1	49.344319000	37.064689000	34.205308000	8	43.152351000	46.818196000	41.029867000
1	47.878302000	37.414437000	35.139733000	1	41.058323000	47.841034000	41.610685000
6	50.109976000	44.407134000	36.403524000	1	43.036635000	49.951198000	42.213327000
6	49.654658000	43.896619000	37.760314000	1	44.631886000	48.271922000	41.062562000
8	49.230400000	44.675631000	38.631805000	1	43.790839000	46.437286000	40.374153000
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1	49.236958000	44.770620000	35.848727000	1	44.661953000	48.496000000	43.552155000
7	49.722467000	42.565309000	37.945102000	1	43.346940000	47.308793000	43.676639000
6	49.307716000	41.919487000	39.189506000	8	43.913472000	38.267182000	39.214532000
6	48.884145000	40.474012000	38.940446000	26	44.139291000	36.373287000	39.809331000
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1	48.486101000	42.491386000	39.629100000	7	45.720437000	36.814414000	41.001066000
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1	48.598576000	39.998155000	39.884282000	6	40.727643000	36.534642000	40.125051000
1	48.024686000	40.428460000	38.262240000	6	44.490281000	37.248436000	43.084133000
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6	47.289778000	47.972420000	38.863180000	6	43.807509000	35.192615000	36.639682000
8	46.684813000	48.925273000	39.379741000	6	41.487731000	36.819202000	41.253894000
6	46.280281000	46.198651000	37.321440000	6	45.656158000	37.123645000	42.334453000
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8	45.081553000	45.878273000	39.365698000	6	42.639989000	35.492407000	37.333690000
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6	48.109534000	45.880499000	41.598504000	6	46.297289000	35.063188000	36.357955000
6	48.481527000	45.860877000	43.077799000	6	40.441505000	35.762681000	37.750536000
8	46.729588000	45.523191000	41.509772000	6	43.194172000	37.106232000	42.598596000
1	48.612394000	46.418280000	39.036597000	6	47.053773000	36.773469000	40.679943000
1	47.708246000	48.010981000	41.372392000	6	45.103606000	35.363586000	37.115530000
1	48.714199000	45.135930000	41.060329000	6	41.243828000	36.125378000	38.899223000
1	46.358625000	45.706755000	40.610372000	7	45.442963000	35.891456000	38.335746000
1	47.914217000	46.620305000	43.628325000	1	39.647588000	36.600701000	40.219730000
1	48.247601000	44.881905000	43.508136000	1	44.598946000	37.516118000	44.131003000
1	49.552432000	46.051544000	43.214899000	1	48.651637000	36.368035000	39.341822000
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8	33.700275000	38.438317000	44.689049000	6	44.748510000	41.228334000	36.680032000
6	37.238278000	39.134368000	44.379735000	6	44.470769000	41.573342000	38.027388000
6	38.411902000	39.215415000	45.358264000	6	45.169235000	38.875567000	37.269942000
8	37.674640000	38.602159000	43.123427000	6	45.109245000	39.857814000	36.349237000
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1	36.838926000	40.149070000	44.223563000	6	44.528454000	40.609962000	39.002240000
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1	38.814531000	38.214530000	45.553452000	7	45.339541000	39.818304000	34.966371000
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7	42.898605000	45.299428000	35.239984000	6	43.685771000	42.424393000	44.507011000
6	42.478177000	45.936076000	34.124724000	6	42.489116000	42.054476000	45.138385000
8	42.139221000	45.346397000	33.085043000	6	44.840998000	41.673882000	44.781735000
6	42.425737000	47.451178000	34.221976000	6	42.455388000	40.983675000	46.035422000
8	44.282803000	41.034570000	40.256032000	6	44.810066000	40.606972000	45.681015000
6	44.486949000	40.146083000	41.387085000	6	43.615848000	40.260388000	46.318313000
1	45.331131000	41.240174000	33.424696000	1	42.834165000	42.718120000	41.098275000
1	44.229033000	42.596572000	38.301981000	1	41.691662000	44.198654000	43.407546000
1	42.998360000	47.878282000	33.392159000	1	44.650684000	43.479801000	42.914220000
1	45.557478000	40.083931000	41.599765000	1	44.061965000	44.512355000	44.191276000
1	44.065302000	39.174093000	41.155994000	1	41.569369000	42.588177000	44.917209000
1	43.978461000	40.623524000	42.222736000	1	45.764832000	41.928808000	44.267237000
1	45.388319000	37.848599000	37.010811000	1	41.516431000	40.715351000	46.513937000
1	45.866302000	38.995049000	39.241399000	1	45.719566000	40.045004000	45.881619000
1	45.066697000	43.998613000	36.064408000	1	43.588669000	39.432848000	47.023501000
1	44.949771000	43.755235000	34.327895000	6	43.771646000	53.045359000	36.568002000
1	42.589599000	43.516333000	36.271968000	6	42.371256000	53.620395000	36.808187000
1	42.493169000	43.404923000	34.507384000	8	42.195466000	54.583887000	37.547772000
1	42.805436000	47.848655000	35.166061000	6	44.176731000	51.974611000	37.600733000
1	41.386688000	47.776153000	34.100482000	6	43.594362000	50.587064000	37.318957000
1	45.769430000	39.053820000	34.397707000	7	44.171161000	49.565230000	37.961683000
1	43.209021000	45.852101000	36.047761000	8	42.623953000	50.428179000	36.550257000
8	46.579383000	42.719346000	41.523354000	1	43.859913000	52.633730000	35.556657000
1	45.878836000	42.517343000	40.883359000	1	45.269675000	51.893540000	37.644954000
1	46.614866000	43.704284000	41.542793000	1	43.857956000	52.289677000	38.603331000
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1	41.733934000	31.664787000	41.574280000	1	43.840250000	48.611297000	37.789599000
1	46.306234000	34.646888000	35.358281000	7	41.361329000	52.986304000	36.133984000
1	48.414443000	35.337415000	36.915392000	6	39.964016000	53.250157000	36.423199000
1	48.936995000	37.161383000	41.843000000	6	39.209968000	52.198051000	37.261879000
1	47.210071000	37.584622000	43.890149000	8	38.016019000	52.368778000	37.498907000
1	41.997592000	37.611035000	44.431752000	1	41.613527000	52.091958000	35.725572000
1	39.881951000	37.266930000	42.771025000	1	39.922171000	54.195221000	36.970164000
1	39.359969000	35.809025000	37.713454000	7	39.942302000	51.139876000	37.688993000
1	41.087684000	35.018725000	35.777492000	6	39.397503000	50.044933000	38.475657000
1	49.416291000	47.555926000	41.198768000	6	39.442464000	48.703763000	37.707567000
1	48.001951000	47.445209000	36.892876000	6	39.164313000	47.523434000	38.612802000
1	42.655666000	49.456462000	40.549035000	6	37.854456000	47.185271000	38.983735000
1	39.073301000	47.938973000	42.613059000	6	40.224024000	46.777974000	39.150450000
1	41.587363000	41.179444000	40.089644000	6	37.607132000	46.136841000	39.873052000
1	42.826854000	44.908386000	42.270668000	6	39.978739000	45.732815000	40.044953000
1	33.636530000	37.474830000	41.317328000	6	38.670298000	45.407629000	40.413351000
1	36.462272000	37.202974000	44.910840000	1	40.904830000	51.040197000	37.378909000
1	44.368574000	41.052492000	28.573947000	1	38.372342000	50.314008000	38.740169000
1	41.777594000	43.235746000	31.995282000	1	38.719446000	48.747014000	36.882965000
1	41.719393000	48.924684000	30.240460000	1	40.437276000	48.598201000	37.258749000
1	40.001301000	49.925738000	39.421271000	1	37.020490000	47.749859000	38.570547000
1	39.441852000	53.340446000	35.493017000	1	41.251345000	47.005119000	38.874562000
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1	50.134253000	41.948834000	39.914832000	1	40.819545000	45.180268000	40.452069000
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				1	40.250343000	48.627672000	29.975664000
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				6	51.863702000	41.245521000	33.464406000
				6	50.987636000	40.707318000	34.599649000
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				6	51.252373000	41.196462000	32.051440000
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				6	50.214730000	43.524972000	31.900090000
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				1	52.131453000	42.268166000	33.745848000
				1	52.006712000	41.561338000	31.338454000
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				1	50.683791000	43.844533000	32.838430000
				1	50.876398000	43.825692000	31.075824000
				1	49.278324000	44.085092000	31.793527000
				1	49.892482000	41.746879000	29.695415000
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				7	50.265828000	39.605626000	34.322427000
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				8	48.759716000	38.532689000	32.284917000
				8	46.677796000	38.381361000	33.130367000
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1	44.768221000	34.913923000	44.384306000	1	44.433171000	47.462613000	36.258101000	
1	45.166038000	36.123664000	45.609854000	8	47.324927000	43.438056000	40.817904000	
6	41.469623000	47.989108000	42.813990000	1	46.498506000	43.934907000	40.644046000	
6	42.991207000	48.036891000	42.934758000	1	48.016387000	44.121907000	40.693829000	
8	43.545223000	48.309187000	44.002224000	1	47.532127000	35.232102000	45.713565000	
6	40.864212000	46.666225000	43.335656000	1	46.344604000	33.967168000	46.093422000	
6	41.178200000	46.289458000	44.797720000	1	46.811326000	37.006681000	38.004172000	
6	40.750589000	47.379716000	45.791052000	1	47.689948000	39.448624000	38.802726000	
6	40.522692000	44.942507000	45.139518000	1	46.987224000	42.391922000	43.037792000	
1	41.079643000	48.833489000	43.390929000	1	45.695605000	42.069400000	45.431055000	
1	39.772345000	46.727661000	43.212287000	1	42.209348000	38.596572000	47.274928000	
1	41.197884000	45.848375000	42.681262000	1	40.976350000	36.408014000	46.244808000	
1	42.265383000	46.173975000	44.889678000	1	41.481758000	33.582192000	41.852127000	
1	41.340055000	48.289011000	45.644396000	1	43.180851000	33.642923000	39.723829000	
1	39.685110000	47.626724000	45.678562000	1	51.932840000	47.167290000	39.549493000	
1	40.905421000	47.045036000	46.824774000	1	49.501992000	48.537822000	35.999491000	
1	40.846682000	44.151715000	44.451111000	1	45.486952000	48.165177000	40.846112000	
1	40.778130000	44.623767000	46.157788000	1	41.153034000	48.129039000	41.774174000	
1	39.427390000	45.008577000	45.077917000	1	41.035813000	38.173772000	40.712772000	
7	43.675715000	47.745155000	41.792266000	1	39.498943000	38.851756000	36.432315000	
6	45.126355000	47.639839000	41.738172000	1	39.448943000	32.209282000	38.379030000	
6	45.653085000	46.192786000	41.710829000	1	38.734196000	31.593772000	42.845855000	
6	45.133411000	45.349927000	42.868627000	1	40.912968000	42.880003000	29.857290000	
8	45.289476000	45.529963000	40.492008000	1	40.969602000	45.862549000	33.544705000	
1	43.155741000	47.465207000	40.970814000	1	41.763533000	51.057652000	30.831745000	
1	45.510534000	48.154815000	42.622680000	1	42.517309000	50.570921000	40.632987000	
1	46.750202000	46.258190000	41.771906000	1	42.314648000	55.641952000	39.254933000	
1	45.807370000	45.958741000	39.759866000	1	47.434029000	54.957995000	39.115186000	
1	45.602246000	44.363130000	42.851204000	1	49.655778000	43.277090000	38.104342000	
1	45.342137000	45.835081000	43.827945000	1	50.607144000	43.338410000	33.747515000	
1	44.050117000	45.214880000	42.780382000	1	47.683664000	39.370821000	35.286864000	
8	43.065213000	38.624119000	41.750124000	1	50.038037000	40.027576000	31.499728000	
26	44.411212000	37.890971000	42.573907000	4TS1HA,II				
7	43.343151000	37.687961000	44.273665000	6	40.290528000	45.164631000	33.305191000	
7	45.184567000	39.595241000	43.245939000	6	40.552178000	44.592289000	31.916501000	
7	43.635800000	36.127410000	41.900993000	8	40.164578000	45.149263000	30.882706000	
6	42.010234000	35.701235000	43.686017000	6	38.889048000	45.782530000	33.468773000	
6	44.139400000	39.678705000	45.466703000	6	38.833768000	46.587876000	34.782475000	
6	46.595112000	40.203491000	41.323025000	6	37.795215000	44.708201000	33.376883000	
6	44.931580000	35.903372000	39.834060000	6	37.542463000	47.386105000	34.996644000	
6	42.369728000	36.750172000	44.524641000	1	40.456963000	44.395635000	34.072427000	
6	44.969875000	40.175628000	44.475093000	1	38.750799000	46.482467000	32.634518000	
6	46.394422000	39.045484000	40.582881000	1	38.984893000	45.908215000	35.634827000	
6	43.964405000	35.484511000	40.739532000	1	39.684652000	47.280924000	34.793362000	
6	41.769843000	37.003469000	45.810419000	1	36.791419000	45.144977000	33.427889000	
6	45.706957000	41.414454000	44.568679000	1	37.866905000	44.160447000	32.430625000	
6	47.015545000	38.771459000	39.309885000	1	37.885731000	43.982985000	34.198011000	
6	43.124375000	34.321477000	40.566115000	1	36.664633000	46.735805000	35.091503000	
6	42.391603000	38.100957000	46.329432000	1	37.608732000	47.984952000	35.912714000	
6	46.361327000	41.580566000	43.386787000	1	37.359631000	48.072883000	34.160254000	
6	46.574804000	37.546682000	38.912417000	7	41.260001000	43.433435000	31.885378000	
6	42.276962000	34.282422000	41.632596000	6	41.756103000	42.843916000	30.651064000	
6	43.359377000	38.531926000	45.352409000	6	42.295568000	41.448521000	30.944441000	
6	46.046912000	40.429229000	42.575739000	8	43.301798000	41.569747000	31.926540000	
6	45.666469000	37.076062000	39.930879000	1	41.707516000	43.095012000	32.728840000	
6	42.615532000	35.412894000	42.468101000	1	42.554755000	43.465861000	30.221492000	
7	45.589547000	37.997952000	40.946543000	1	41.471707000	40.803921000	31.292798000	
1	41.197256000	35.053439000	43.999927000	1	42.684820000	41.012912000	30.009208000	
1	44.054497000	40.253400000	46.383927000	1	43.456451000	40.686812000	32.359357000	
1	47.218279000	40.991207000	40.911501000	6	40.075288000	37.581331000	40.673319000	
1	45.093290000	35.287236000	38.954769000	6	39.195169000	37.969262000	39.498136000	
6	43.890394000	42.608746000	35.023676000	8	38.063963000	37.461268000	39.364839000	
6	43.740035000	42.526718000	37.267480000	6	39.261759000	37.547136000	41.973214000	
6	43.755246000	42.690194000	38.664930000	8	38.202834000	36.581948000	41.917248000	
6	43.152123000	40.134854000	37.538989000	1	40.464671000	36.572600000	40.481195000	
6	43.430892000	41.238353000	36.722601000	1	39.912017000	37.271353000	42.806391000	
6	44.028335000	43.392419000	36.152280000	1	38.840697000	38.541019000	42.183607000	
6	43.457291000	41.586258000	39.457095000	1	37.817466000	36.705547000	41.016873000	
6	43.162026000	40.311944000	38.919482000	7	39.696484000	38.868894000	38.624012000	
7	43.517783000	41.326500000	35.357214000	6	38.961820000	39.361500000	37.464353000	
6	44.412739000	44.848321000	36.185828000	6	38.999887000	40.897812000	37.353389000	
6	43.343207000	45.755919000	35.555767000	6	38.409769000	41.617384000	38.549146000	
7	43.772677000	47.148778000	35.540024000	6	37.033849000	41.564464000	38.814214000	
6	43.230904000	48.061222000	34.708932000	6	39.229577000	42.341196000	39.425178000	
8	42.353792000	47.783625000	33.874758000	6	36.492200000	42.211739000	39.925153000	
6	43.772869000	49.475276000	34.845225000	6	38.691669000	42.990325000	40.540408000	
8	43.552322000	41.776537000	40.833335000	6	37.320453000	42.926282000	40.794029000	
6	42.697060000	41.118270000	41.661538000	1	40.611854000	39.264941000	38.805458000	
1	44.033097000	42.856712000	33.979220000	1	37.938153000	38.996403000	37.571163000	
1	44.022825000	43.628315000	39.145327000	1	40.036427000	41.221330000	37.200759000	
1	44.174497000	49.795804000	33.877808000	1	38.454634000	41.168903000	36.439300000	
1	42.925642000	39.827973000	41.728574000	1	36.379326000	41.011667000	38.143224000	
1	41.656675000	41.098544000	41.313525000	1	40.297422000	42.402758000	39.228739000	
1	42.841261000	41.461665000	42.684943000					

1	35.422117000	42.160039000	40.111006000	8	45.658196000	47.940376000	37.600031000
1	39.346426000	43.545228000	41.207398000	1	48.337365000	49.511245000	36.737997000
1	36.900181000	43.431973000	41.659560000	1	47.238505000	47.655588000	35.607672000
6	46.695427000	54.244497000	38.940482000	1	48.282657000	46.464762000	36.405920000
6	45.505746000	54.749842000	39.763541000	7	50.267146000	47.377565000	38.384764000
8	45.659453000	55.212815000	40.890065000	6	50.823110000	47.031594000	39.682919000
6	47.087620000	52.793284000	39.274546000	6	50.371344000	45.635641000	40.139681000
6	46.170362000	51.744199000	38.638919000	6	51.039014000	45.237167000	41.452570000
7	46.613479000	50.484036000	38.677517000	8	48.966776000	45.581639000	40.350868000
8	45.071091000	52.056782000	38.138434000	1	50.381197000	46.697819000	37.629129000
1	46.499917000	54.336168000	37.866677000	1	50.488304000	47.790362000	40.394544000
1	48.118738000	52.598418000	38.954953000	1	50.661850000	44.917422000	39.355529000
1	47.077553000	52.651894000	40.363266000	1	48.470889000	45.955588000	39.583224000
1	47.558821000	50.226627000	38.976380000	1	50.783908000	45.954026000	42.241594000
1	46.052642000	49.732923000	38.267314000	1	50.690630000	44.248274000	41.767832000
7	44.288343000	54.654868000	39.142536000	1	52.129504000	45.202608000	41.345386000
6	43.041558000	54.886334000	39.849029000	6	37.740785000	31.881394000	42.304570000
6	42.150281000	53.655400000	40.109230000	6	37.644463000	31.615516000	40.795416000
8	41.013329000	53.825532000	40.545621000	8	37.004285000	30.661755000	40.355150000
1	44.272941000	54.066208000	38.316885000	6	37.690913000	33.353463000	42.738159000
1	43.301538000	55.326627000	40.815704000	6	37.520216000	33.503595000	44.251489000
7	42.707618000	52.448841000	39.843444000	8	38.904103000	33.983535000	42.314231000
6	41.996998000	51.186427000	39.973257000	1	36.920679000	31.322210000	42.763961000
6	41.826259000	50.490157000	38.603702000	1	36.837196000	33.838224000	42.239015000
6	41.245990000	49.098093000	38.727793000	1	38.714908000	34.950973000	42.202546000
6	39.871452000	48.914019000	38.938084000	1	38.347794000	33.013557000	44.778500000
6	42.069839000	47.962497000	38.663703000	1	37.519950000	34.564885000	44.523530000
6	39.329718000	47.634925000	39.081891000	1	36.577211000	33.059552000	44.593789000
6	41.529526000	46.680348000	38.811674000	7	38.338193000	32.493075000	40.018378000
6	40.157754000	46.511578000	39.020503000	6	37.837853000	32.428737000	38.567779000
1	43.627043000	52.405014000	39.411041000	6	37.824680000	33.690946000	37.871949000
1	41.029309000	51.404592000	40.430966000	6	36.323092000	33.881313000	38.158899000
1	41.182092000	51.118356000	37.974946000	6	38.130775000	33.616005000	36.368427000
1	42.806914000	50.447478000	38.116254000	6	35.751399000	35.222069000	37.679976000
1	39.218766000	49.783885000	38.981442000	1	38.822378000	33.240263000	40.512265000
1	43.138119000	48.074768000	38.485329000	1	37.801914000	31.544588000	38.278704000
1	38.260295000	47.514702000	39.237733000	1	38.354222000	34.564417000	38.284057000
1	42.181055000	45.812089000	38.758024000	1	35.764631000	33.049173000	37.704123000
1	39.737375000	45.515216000	39.126898000	1	36.166074000	33.795672000	39.241487000
6	41.209652000	50.519619000	31.318766000	1	37.815206000	34.524561000	35.846187000
6	40.606546000	49.297387000	30.623171000	1	39.205251000	33.488953000	36.187489000
7	40.896797000	48.114738000	31.215949000	1	37.611758000	32.765681000	35.905233000
8	39.924666000	49.416676000	29.606553000	1	34.705136000	35.330828000	37.991319000
1	41.742618000	50.270500000	32.240841000	1	36.317999000	36.062094000	38.098011000
1	40.406058000	51.228325000	31.544982000	1	35.774758000	35.310839000	36.587327000
1	40.522037000	47.244488000	30.844522000	6	47.660023000	35.943945000	45.559276000
1	41.452254000	48.072313000	32.065785000	6	46.350138000	36.546067000	45.047359000
6	49.219882000	40.642911000	31.688714000	16	46.314125000	36.643488000	43.222725000
6	48.685161000	40.601475000	33.124148000	1	47.803879000	34.924970000	45.183103000
8	49.197779000	41.304328000	34.010825000	1	45.484664000	35.967904000	45.388137000
6	48.187361000	40.454184000	30.561591000	1	46.221524000	37.565881000	45.431064000
6	47.075449000	41.523123000	30.490289000	6	41.426562000	47.789292000	42.765942000
6	47.620675000	42.895883000	30.067902000	6	42.935988000	47.972074000	42.909999000
6	45.950320000	41.055310000	29.556424000	8	43.449545000	48.296497000	43.982893000
1	49.743507000	41.598215000	31.587672000	6	40.947582000	46.384701000	43.197259000
1	48.728510000	40.441851000	29.603120000	6	41.291938000	45.951726000	44.636553000
1	47.720304000	39.465092000	30.647541000	6	40.763389000	46.936620000	45.689730000
1	46.630587000	41.624730000	31.488891000	6	40.765695000	44.531153000	44.892340000
1	48.393644000	43.265338000	30.752357000	1	40.954089000	48.556389000	43.387148000
1	48.058894000	42.850705000	29.060620000	1	39.855105000	46.350035000	43.067736000
1	46.817902000	43.642075000	30.047443000	1	41.360727000	45.643801000	42.498584000
1	46.331658000	40.856188000	28.544074000	1	42.385372000	45.931382000	44.729442000
1	45.491495000	40.143349000	29.951943000	1	41.264240000	47.904716000	45.600091000
1	45.167802000	41.818506000	29.480335000	1	39.679476000	47.088435000	45.584787000
7	47.688531000	39.730517000	33.361813000	1	40.947862000	46.557489000	46.703093000
6	46.970051000	39.664123000	34.630568000	1	41.158014000	43.819349000	44.154868000
6	45.818514000	38.645813000	34.518371000	1	41.053966000	44.173762000	45.888870000
6	44.930269000	38.949841000	33.287359000	1	39.668738000	44.498652000	44.833581000
8	45.439598000	38.720317000	32.164302000	7	43.657915000	47.734618000	41.777626000
8	43.778537000	39.453452000	33.501466000	6	45.113116000	47.733525000	41.740602000
1	47.173238000	39.296177000	32.589752000	6	45.734371000	46.324816000	41.741114000
1	46.573823000	40.655069000	34.886784000	6	45.322102000	45.492976000	42.949935000
1	46.239942000	37.639680000	34.398994000	8	45.358861000	45.600451000	40.563492000
1	45.235426000	38.672199000	35.443749000	1	43.174522000	47.395003000	40.956212000
6	50.887755000	44.219541000	34.206765000	1	45.452596000	48.291243000	42.617567000
6	50.333279000	44.392927000	35.612061000	1	46.826867000	46.459811000	41.749620000
8	50.661099000	45.372040000	36.305282000	1	45.858714000	45.997355000	39.801574000
1	51.979693000	44.290562000	34.249629000	1	45.873631000	44.549430000	42.951832000
1	50.533408000	45.047657000	33.582390000	1	45.517786000	46.033312000	43.882022000
7	49.482147000	43.438358000	36.029984000	1	44.252529000	45.263203000	42.902113000
6	48.884437000	43.452223000	37.364271000	8	42.903033000	38.598199000	41.897741000
6	47.773358000	42.417035000	37.492262000	26	44.257665000	37.679550000	42.484808000
1	49.284213000	42.650205000	35.413149000	7	43.332951000	37.313929000	44.235940000
1	48.487196000	44.449450000	37.573476000	7	45.060248000	39.384940000	43.271878000
1	48.151071000	41.406763000	37.289178000	7	43.482709000	36.001422000	41.712134000
1	47.373936000	42.453310000	38.510733000	6	42.032554000	35.335786000	43.571694000
1	46.954121000	42.620684000	36.794333000	6	44.079843000	39.283705000	45.511186000
6	48.803915000	48.526187000	36.813085000	6	46.323492000	40.175345000	41.320637000
6	49.445039000	48.436124000	38.196903000	6	44.664201000	35.972160000	39.568073000
8	49.217009000	49.278656000	39.079051000	6	42.416539000	36.320480000	44.478482000
6	47.759740000	47.414252000	36.540040000	6	44.856880000	39.891168000	44.531522000
6	46.727649000	47.266647000	37.670115000	6	46.112597000	39.068925000	40.506521000
8	47.030127000	46.477261000	38.615023000	6	43.751988000	35.460678000	40.484772000

6	41.873251000	36.464174000	45.805309000	1	39.006706000	47.436529000	32.196519000
6	45.539381000	41.159463000	44.674965000	1	36.785389000	44.314012000	32.513106000
6	46.665785000	38.922693000	39.182916000	1	37.931627000	43.293286000	31.637469000
6	42.942635000	34.281703000	40.267985000	1	38.320332000	43.863711000	33.275767000
6	42.460464000	37.566637000	46.354619000	1	36.381812000	46.374612000	33.413636000
6	46.141740000	41.421285000	43.482568000	1	36.988614000	48.031999000	33.480052000
6	46.230255000	37.726038000	38.701707000	1	36.483584000	47.336271000	31.930482000
6	42.178050000	34.119792000	41.382748000	7	41.326093000	43.333400000	30.341376000
6	43.352736000	38.103290000	45.358462000	6	41.728154000	42.384664000	29.315441000
6	45.845137000	40.301938000	42.618536000	6	42.421165000	41.175173000	29.929734000
6	45.389357000	37.147893000	39.721947000	8	43.562276000	41.619486000	30.630471000
6	42.539656000	35.190114000	42.286595000	1	41.978925000	43.471917000	31.101252000
7	45.350611000	37.966954000	40.822196000	1	42.414132000	42.862704000	28.600336000
1	41.263986000	34.633765000	43.880667000	1	41.715006000	40.650425000	30.595432000
1	43.991149000	39.797465000	46.464277000	1	42.688869000	40.477117000	29.117647000
1	46.895934000	41.011794000	40.928132000	1	43.969363000	40.825749000	31.073265000
1	44.787452000	35.433058000	38.633320000	6	41.397681000	36.183367000	38.754383000
6	43.914785000	42.630835000	35.059161000	6	40.073696000	36.952410000	38.700412000
6	43.688857000	42.725854000	37.296503000	8	39.027276000	36.424063000	39.069905000
6	43.650190000	43.007850000	38.674625000	6	42.675669000	36.985791000	38.982683000
6	43.045788000	40.380557000	37.742523000	8	42.709289000	37.633742000	40.258218000
6	43.370127000	41.405997000	36.845683000	1	41.284273000	35.431891000	39.540838000
6	44.037601000	43.494251000	36.129647000	1	43.532625000	36.310607000	38.976880000
6	43.309019000	41.983029000	39.548521000	1	42.839218000	37.717413000	38.179670000
6	43.014775000	40.673706000	39.104911000	1	41.981998000	38.277160000	40.305710000
7	43.501409000	41.386645000	35.477637000	7	40.115682000	38.228188000	38.209779000
6	44.459112000	44.938305000	36.081152000	6	38.883318000	38.948761000	37.888070000
6	43.386983000	45.857351000	35.473460000	6	39.086215000	40.468467000	37.806033000
7	43.831612000	47.246119000	35.460065000	6	39.330408000	41.168722000	39.129795000
6	43.304154000	48.167861000	34.630618000	6	38.350657000	41.157411000	40.134471000
8	42.431372000	47.905197000	33.787123000	6	40.513050000	41.882163000	39.358523000
6	43.856661000	49.576902000	34.781053000	6	38.551417000	41.840139000	41.334710000
8	43.347723000	42.300984000	40.902504000	6	40.720649000	42.574892000	40.556395000
6	42.514267000	41.671349000	41.764834000	6	39.736794000	42.551378000	41.547359000
1	44.091286000	42.797018000	34.003725000	1	40.966411000	38.563801000	37.773882000
1	43.918401000	43.977471000	39.086093000	1	38.152238000	38.685894000	38.655460000
1	44.285693000	49.894434000	33.824378000	1	39.906928000	40.692213000	37.111768000
1	43.035411000	39.557669000	42.072530000	1	38.181031000	40.879889000	37.338235000
1	41.536857000	41.367624000	41.392561000	1	37.417811000	40.620090000	39.972814000
1	42.625827000	42.038672000	42.779201000	1	41.276661000	41.918707000	38.586374000
1	42.868907000	39.366468000	37.391776000	1	37.778139000	41.825260000	42.099486000
1	42.856576000	39.884216000	39.833395000	1	41.639189000	43.138459000	40.702354000
1	44.702964000	45.281688000	37.092797000	1	39.891578000	43.091398000	42.478005000
1	45.380345000	45.047788000	35.492722000	6	46.907845000	52.772816000	39.298209000
1	42.448018000	45.763162000	36.036136000	6	45.743842000	53.738807000	39.541694000
1	43.172772000	45.559075000	34.443612000	8	45.694990000	54.440805000	40.547111000
1	44.613938000	49.659194000	35.565284000	6	46.690782000	51.388366000	39.940849000
1	43.030995000	50.258420000	35.010564000	6	45.774134000	50.463750000	39.133708000
1	43.493402000	40.561011000	34.853967000	7	45.781889000	49.176024000	39.483404000
1	44.487881000	47.547376000	36.187600000	8	45.045518000	50.906099000	38.218382000
8	47.206547000	43.375643000	40.913156000	1	47.104224000	52.654647000	38.227118000
1	46.411085000	43.923415000	40.741134000	1	47.656198000	50.887033000	40.081462000
1	47.933590000	44.016460000	40.768778000	1	46.266502000	51.509981000	40.946301000
1	48.519314000	36.544381000	45.242764000	1	46.446162000	48.764826000	40.144990000
1	47.654293000	35.901734000	46.656451000	1	45.226461000	48.499452000	38.948854000
1	46.425666000	37.276567000	37.736238000	7	44.789476000	53.757263000	38.557349000
1	47.291729000	39.660711000	38.699818000	6	43.509426000	54.412698000	38.755485000
1	46.724770000	42.275467000	43.162565000	6	42.324794000	53.523483000	39.190660000
1	45.529698000	41.765613000	45.572449000	8	41.235290000	54.045897000	39.417435000
1	42.297018000	38.000389000	47.333448000	1	44.839782000	52.982408000	37.902911000
1	41.131972000	35.806214000	46.241451000	1	43.647482000	55.166183000	39.534014000
1	41.427136000	33.371028000	41.596225000	7	42.586828000	52.197586000	39.288619000
1	42.964678000	33.676479000	39.370149000	6	41.609005000	51.201969000	39.694988000
1	51.921648000	47.056350000	39.637750000	6	41.406810000	50.119579000	38.611803000
1	49.585395000	48.460092000	36.045720000	6	40.627617000	48.928583000	39.128255000
1	45.442102000	48.265986000	40.840508000	6	39.254582000	49.031561000	39.398011000
1	41.108823000	47.961927000	41.731409000	6	41.270128000	47.706807000	39.384462000
1	40.946074000	38.230666000	40.805622000	6	38.541393000	47.947458000	39.913558000
1	39.378598000	38.924322000	36.547022000	6	40.559376000	46.620625000	39.905993000
1	39.416894000	32.267357000	38.242312000	6	39.193003000	46.739131000	40.172813000
1	38.680448000	31.448915000	42.677732000	1	43.500372000	51.846804000	39.013925000
1	40.941563000	42.806402000	29.920770000	1	40.677851000	51.730531000	39.911892000
1	41.043378000	45.946347000	33.474282000	1	40.900663000	50.576076000	37.750901000
1	41.897402000	51.019260000	30.627306000	1	42.392459000	49.790122000	38.264106000
1	42.551933000	50.524273000	40.650066000	1	38.738860000	49.968839000	39.196206000
1	42.416232000	55.610761000	39.314265000	1	42.328426000	47.583925000	39.157372000
1	47.534405000	54.899484000	39.193468000	1	37.476057000	48.047113000	40.109890000
1	49.664777000	43.260445000	38.114144000	1	41.086323000	45.694018000	40.111596000
1	50.591890000	43.269418000	33.755871000	1	38.642305000	45.890000000	40.569880000
1	47.662090000	39.380418000	35.432888000	6	40.938788000	50.375677000	31.038803000
1	49.990489000	39.862162000	31.608662000	6	41.708013000	49.526963000	30.030054000
6	40.002997000	45.098991000	31.392018000	7	42.398760000	48.489833000	30.579863000
6	40.185432000	44.074193000	30.268873000	8	41.681506000	49.761822000	28.825858000
8	39.370712000	43.952407000	29.353026000	1	41.170000000	50.120746000	32.077220000
6	38.528516000	45.384999000	31.721832000	1	39.864887000	50.235977000	30.871806000
6	38.420430000	46.619514000	32.638913000	1	42.930552000	47.903204000	29.951498000
6	37.851056000	44.143306000	32.322606000	1	42.492852000	48.335132000	31.584792000
6	36.988990000	47.114453000	32.879638000	6	49.898827000	41.522341000	31.891008000
1	40.541594000	44.778472000	32.295009000	6	49.178919000	40.878191000	33.080826000
1	38.031694000	45.612415000	30.769093000	8	49.484971000	41.189720000	34.244223000
1	38.897950000	46.398552000	33.604611000	6	49.087771000	41.691274000	30.592839000
6				6	47.849644000	42.610402000	30.694209000
6				6	48.242217000	44.085276000	30.870430000

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6	46.936539000	42.414262000	29.475149000	8	43.083186000	48.154253000	44.840977000
1	50.269488000	42.486525000	32.252241000	6	39.979231000	48.082713000	44.076592000
1	49.762041000	42.089890000	29.819666000	6	40.008909000	47.800981000	45.592489000
1	48.769542000	40.707879000	30.224532000	6	40.199893000	49.077350000	46.424803000
1	47.272550000	42.305623000	31.577884000	6	38.730020000	47.057118000	46.007378000
1	48.861059000	44.249011000	31.760915000	1	41.294393000	49.812817000	43.920834000
1	48.806302000	44.446400000	29.998781000	1	39.087575000	48.684668000	43.845202000
1	47.350785000	44.715293000	30.971732000	1	39.847290000	47.132541000	43.540966000
1	47.463223000	42.667231000	28.543080000	1	40.867569000	47.149386000	45.797268000
1	46.592925000	41.376573000	29.425062000	1	41.186391000	49.511069000	46.244472000
1	46.043937000	43.045713000	29.545951000	1	39.432769000	49.828321000	46.184335000
7	48.259877000	39.940278000	32.791529000	1	40.121883000	48.857413000	47.497569000
6	47.374924000	39.358659000	33.796565000	1	38.598632000	46.132103000	45.432079000
6	46.354243000	38.427645000	33.113212000	1	38.753809000	46.789797000	47.071408000
6	45.654799000	39.136607000	31.926995000	1	37.839505000	47.679363000	45.841548000
8	46.358430000	39.324474000	30.905000000	7	43.013963000	47.381828000	42.691743000
8	44.449029000	39.508594000	32.097162000	6	44.195606000	46.535832000	42.767954000
1	47.918424000	39.810865000	31.833853000	6	43.860749000	45.062763000	42.461329000
1	46.853960000	40.159714000	34.335945000	6	42.930949000	44.442749000	43.501301000
1	46.876936000	37.544645000	32.725040000	8	43.230731000	44.954491000	41.190106000
1	45.622900000	38.098985000	33.858110000	1	42.469984000	47.312475000	41.840223000
6	50.669664000	43.875470000	35.897162000	1	44.606327000	46.650947000	43.774572000
6	49.911918000	43.397218000	37.124613000	1	44.809707000	44.505754000	42.452344000
8	49.960255000	44.034156000	38.191939000	1	43.936384000	45.048509000	40.498777000
1	50.259205000	44.841885000	35.583135000	1	42.745816000	43.389662000	43.262705000
1	50.608453000	43.167876000	35.066889000	1	43.365270000	44.505417000	44.505828000
7	49.203946000	42.262912000	36.976367000	1	41.967672000	44.964972000	43.511732000
6	48.425330000	41.689022000	38.070686000	8	44.954979000	37.841025000	42.063005000
6	47.579281000	40.516733000	37.590446000	26	46.349645000	36.314707000	42.502306000
1	49.199727000	41.795718000	36.068976000	7	44.840806000	35.346240000	43.428400000
1	47.781173000	42.461934000	38.503806000	7	46.759063000	37.365121000	44.180809000
1	48.206257000	39.719214000	37.173084000	7	45.857595000	35.361605000	40.792380000
1	47.005359000	40.110385000	38.427546000	6	43.970914000	33.999812000	41.572606000
1	46.867959000	40.834719000	36.822550000	6	45.138657000	36.288881000	45.679085000
6	48.007422000	46.778798000	38.546456000	6	48.576263000	38.794900000	43.374614000
6	48.031041000	46.515122000	40.046045000	6	47.571396000	36.341761000	39.325722000
8	47.550590000	47.312198000	40.867064000	6	43.967393000	34.431583000	42.893438000
6	46.899801000	45.949883000	37.840548000	6	46.169451000	37.179579000	45.401816000
6	45.552179000	45.972551000	38.589357000	6	48.599885000	38.340278000	42.061634000
8	45.425817000	45.138181000	39.537803000	6	46.507956000	35.484755000	39.589467000
8	44.679695000	46.816086000	38.232995000	6	43.065059000	33.948516000	43.912533000
1	47.832989000	47.846458000	38.397074000	6	46.762888000	38.063768000	46.381825000
1	46.765319000	46.348889000	36.830262000	6	49.533524000	38.793699000	41.056222000
1	47.234951000	44.912160000	37.757883000	6	45.918329000	34.599036000	38.613686000
7	48.566079000	45.322558000	40.397453000	6	43.411198000	34.575412000	45.071294000
6	48.419305000	44.749212000	41.721349000	6	47.718992000	38.781463000	45.733210000
6	47.970347000	43.283349000	41.650393000	6	49.255693000	38.095852000	39.922237000
6	47.968259000	42.642007000	43.036337000	6	44.901483000	33.941500000	39.241479000
8	46.659937000	43.120439000	41.109358000	6	44.518873000	35.450811000	44.755755000
1	49.002975000	44.756565000	39.666056000	6	47.714173000	38.330405000	44.359605000
1	47.690400000	45.354645000	42.267224000	6	48.148625000	37.219487000	40.233034000
1	48.691506000	42.746056000	41.010995000	6	44.870662000	34.425707000	40.600761000
1	46.414289000	43.827492000	40.459826000	7	47.762772000	37.388726000	41.539010000
1	47.301241000	43.191228000	43.710580000	1	43.231942000	33.258322000	41.283654000
1	47.613974000	41.607995000	42.976033000	1	44.780044000	36.245009000	46.703398000
1	48.976916000	42.636913000	43.467156000	1	49.296572000	39.557066000	43.654613000
6	40.248990000	37.451515000	48.174594000	1	47.980480000	36.328641000	38.319989000
6	39.165782000	36.805495000	47.296330000	6	44.128788000	42.534124000	33.857330000
8	37.974119000	36.931523000	47.569421000	6	44.076968000	42.512645000	36.104961000
6	41.435539000	38.085053000	47.438289000	6	44.081005000	42.745468000	37.488858000
6	42.297753000	38.948645000	48.358677000	6	43.897090000	40.088624000	36.504234000
8	42.213685000	37.001334000	46.897643000	6	43.960731000	41.172654000	35.622393000
1	39.736015000	38.207848000	48.774546000	6	44.197005000	43.369051000	34.951935000
1	41.054172000	38.704933000	46.612903000	6	44.000666000	41.663790000	38.359910000
1	42.850832000	37.352210000	46.252813000	6	43.926233000	40.339149000	37.878666000
1	42.668656000	38.354447000	49.201782000	7	43.973610000	41.222597000	34.245475000
1	43.161766000	39.348975000	47.814799000	6	44.394217000	44.856606000	34.938137000
1	41.725875000	39.796964000	48.751680000	6	43.144462000	45.674887000	35.330887000
7	39.632531000	36.084913000	46.238995000	7	43.459611000	47.085086000	35.523703000
6	38.770410000	35.483631000	45.233007000	6	43.272064000	48.026176000	34.573623000
6	39.132494000	35.914338000	43.796181000	8	42.757533000	47.784030000	33.469338000
6	38.958079000	37.432130000	43.601965000	6	43.718537000	49.434326000	34.939018000
6	38.312242000	35.096358000	42.786561000	8	43.961095000	42.006025000	39.701872000
6	39.540549000	37.974399000	42.292332000	6	44.125380000	41.039748000	40.703601000
1	40.639555000	36.070300000	46.105851000	1	44.182010000	42.766102000	32.801166000
1	37.746329000	35.776246000	45.483877000	1	44.156632000	43.739938000	37.913105000
1	40.197379000	35.673822000	43.640038000	1	44.442996000	49.777149000	34.192038000
1	37.886928000	37.676809000	43.661349000	1	44.228388000	37.614699000	41.443451000
1	39.433422000	37.949830000	44.444742000	1	43.480249000	40.168839000	40.548202000
1	38.583553000	35.332941000	41.752745000	1	43.831848000	41.561181000	41.620802000
1	38.463695000	34.019179000	42.934828000	1	43.865538000	39.066818000	36.131400000
1	37.239063000	35.299011000	42.903739000	1	43.950609000	39.509389000	38.574131000
1	39.449943000	39.065072000	42.246232000	1	45.199484000	45.126228000	35.633612000
1	40.605828000	37.719128000	42.207960000	1	44.720754000	45.182486000	33.942790000
1	39.033108000	37.562127000	41.414994000	1	42.725409000	45.294866000	36.267666000
6	47.951885000	32.441013000	41.604193000	1	42.379860000	45.601751000	34.554227000
6	47.340844000	33.099582000	42.842995000	1	44.162434000	49.522986000	35.935008000
16	47.922135000	34.823486000	43.119791000	1	42.852944000	50.103161000	34.879355000
1	47.664903000	32.974863000	40.693547000	1	44.037306000	40.436823000	33.582812000
1	46.250804000	33.095904000	42.785557000	1	43.933289000	47.307281000	36.400469000
1	47.619043000	32.538084000	43.743540000	8	45.444027000	40.548259000	40.789141000
6	41.203038000	48.814341000	43.480532000	1	45.359945000	38.661154000	41.703364000
6	42.523676000	48.092434000	43.742117000	1	46.009362000	41.348687000	40.913303000

1	49.046330000	32.436964000	41.660468000
1	47.611761000	31.399205000	41.514405000
1	49.737497000	38.160742000	38.955138000
1	50.293131000	39.548623000	41.215076000
1	48.374382000	39.547475000	46.128260000
1	46.469350000	38.115472000	47.423111000
1	42.965024000	34.482999000	46.052845000
1	42.279807000	33.221385000	43.746751000
1	44.227765000	33.197006000	38.835346000
1	46.248295000	34.506967000	37.586355000
1	49.370478000	44.793338000	42.273554000
1	48.974286000	46.513325000	38.104560000
1	44.947205000	46.883174000	42.048253000
1	41.034758000	48.945036000	42.405271000
1	41.495144000	35.639428000	37.803208000
1	38.485379000	38.582772000	36.929951000
1	38.825028000	34.386940000	45.307036000
1	40.643614000	36.695269000	48.868124000
1	40.827239000	42.089297000	28.771260000
1	40.491785000	46.027134000	31.061250000
1	41.163094000	51.431723000	30.859728000
1	41.946538000	50.722068000	40.623515000
1	43.201556000	54.931879000	37.840396000
1	47.783987000	53.237632000	39.759234000
1	49.106849000	41.365785000	38.870319000
1	51.716146000	44.042288000	36.173356000
1	47.966704000	38.807690000	34.537884000
1	50.790936000	40.912048000	31.686633000

4IM1 HA,II

6	40.965197000	45.187746000	29.942632000
6	40.990369000	43.960703000	29.032507000
8	40.092293000	43.742730000	28.218637000
6	39.662905000	45.281469000	30.765525000
6	39.577524000	46.647818000	31.474805000
6	39.548252000	44.101298000	31.743506000
6	38.228622000	46.927673000	32.149271000
1	41.834902000	45.207664000	30.613460000
1	38.836493000	45.209993000	30.044306000
1	40.379768000	46.733654000	32.220504000
1	39.768879000	47.438012000	30.734876000
1	38.603598000	44.126416000	32.297398000
1	39.591615000	43.142905000	31.214118000
1	40.365149000	44.115770000	32.477526000
1	38.029087000	46.232349000	32.972329000
1	38.208247000	47.940661000	32.567296000
1	37.400214000	46.843420000	31.433139000
7	42.069982000	43.145504000	29.185420000
6	42.247044000	41.886799000	28.481403000
6	42.601479000	40.775685000	29.465654000
8	43.720003000	41.200836000	30.215074000
1	42.747541000	43.331120000	29.912028000
1	43.054114000	41.982745000	27.740902000
1	41.732144000	40.573986000	30.114709000
1	42.815849000	39.852787000	28.902098000
1	43.986422000	40.447062000	30.810129000
6	41.500571000	36.824151000	38.542090000
6	40.419529000	37.884969000	38.299625000
8	39.240690000	37.638045000	38.547820000
6	42.905146000	37.312071000	38.887439000
8	42.945728000	38.056223000	40.111618000
1	41.122810000	36.181056000	39.341913000
1	43.562806000	36.455641000	39.046508000
1	43.335653000	37.901995000	38.067824000
1	42.359716000	38.828145000	40.027509000
7	40.834696000	39.078297000	37.782701000
6	39.893246000	40.115426000	37.367978000
6	40.140061000	41.471756000	38.043991000
6	40.005067000	41.501864000	39.556249000
6	38.927040000	40.896165000	40.220911000
6	40.941383000	42.212907000	40.320862000
6	38.776141000	41.025018000	41.602936000
6	40.794865000	42.347248000	41.704289000
6	39.702562000	41.761154000	42.347862000
1	41.800730000	39.205930000	37.501327000
1	38.897935000	39.728052000	37.589912000
1	41.133323000	41.840163000	37.762170000
1	39.424085000	42.181347000	37.602686000
1	38.198682000	40.315915000	39.661131000
1	41.792532000	42.681059000	39.834244000
1	37.928900000	40.556454000	42.097900000
1	41.534112000	42.922401000	42.254984000
1	39.568487000	41.882292000	43.419941000
6	46.341195000	52.714918000	39.388806000
6	45.289834000	53.539711000	40.138307000
8	45.553557000	54.103394000	41.196160000
6	46.410952000	51.251164000	39.866527000
6	45.310749000	50.353532000	39.291740000
7	45.478816000	49.040928000	39.472873000
8	44.311388000	50.831210000	38.712927000
1	46.166987000	52.742361000	38.307759000
1	47.383993000	50.816948000	39.606372000
1	46.351801000	51.217091000	40.962320000

1	46.346912000	48.628363000	39.833100000
1	44.801844000	48.381795000	39.081371000
7	44.059176000	53.595132000	39.536768000
6	42.892689000	54.106392000	40.233156000
6	41.905749000	53.064499000	40.800308000
8	40.891826000	53.451442000	41.377995000
1	43.920974000	52.929542000	38.783036000
1	43.256500000	54.702732000	41.073295000
7	42.247594000	51.766478000	40.614716000
6	41.443501000	50.640170000	41.057908000
6	40.962067000	49.778991000	39.867981000
6	40.374110000	48.460246000	40.320152000
6	39.088949000	48.401072000	40.879778000
6	41.121213000	47.274478000	40.233262000
6	38.562906000	47.193932000	41.345740000
6	40.599705000	46.066820000	40.707382000
6	39.319369000	46.022145000	41.265682000
1	43.064766000	51.539788000	40.054375000
1	40.601361000	51.042766000	41.625634000
1	40.229002000	50.357643000	39.291031000
1	41.818363000	49.596875000	39.208570000
1	38.494050000	49.310307000	40.946339000
1	42.111110000	47.276736000	39.778865000
1	37.561798000	47.169279000	41.770361000
1	41.204655000	45.167809000	40.649359000
1	38.917501000	45.078990000	41.626419000
6	39.959080000	50.847956000	33.185593000
6	40.971753000	51.014940000	32.056428000
7	41.953963000	50.077062000	32.035939000
8	40.894528000	51.934614000	31.244663000
1	40.131573000	49.948728000	33.783183000
1	38.953674000	50.811315000	32.753659000
1	42.633499000	50.135834000	31.290426000
1	41.996520000	49.298116000	32.700280000
6	49.916713000	40.176789000	31.402767000
6	49.127948000	39.919383000	32.690840000
8	49.495382000	40.426470000	33.764394000
6	49.107967000	40.232697000	30.092918000
6	48.042484000	41.348174000	30.013083000
6	48.675970000	42.745300000	29.929477000
6	47.086996000	41.093981000	28.838186000
1	50.467104000	41.107746000	31.569022000
1	49.817240000	40.357631000	29.260615000
1	48.618957000	39.266059000	29.918672000
1	47.436988000	41.303400000	30.928164000
1	49.323110000	42.962405000	30.787951000
1	49.282811000	42.845659000	29.018337000
1	47.901564000	43.520765000	29.898273000
1	47.628715000	41.092126000	27.880744000
1	46.579938000	40.133172000	28.968679000
1	46.309485000	41.864452000	28.792867000
7	48.075620000	39.087541000	32.593135000
6	47.131204000	38.870470000	33.685255000
6	45.952454000	38.015700000	33.182222000
6	45.345478000	38.623758000	31.895575000
8	46.030619000	38.502369000	30.851543000
8	44.235557000	39.237180000	32.006535000
1	47.692768000	38.831247000	31.677506000
1	46.765214000	39.837382000	34.055066000
1	46.312284000	37.005340000	32.952676000
1	45.201803000	37.944008000	33.975269000
6	49.740362000	43.664079000	34.668478000
6	49.348471000	43.245944000	36.075522000
8	49.324314000	44.070545000	37.003986000
1	48.899846000	44.194310000	34.205053000
1	49.999575000	42.808148000	34.040920000
7	49.020079000	41.949902000	36.235028000
6	48.583185000	41.416379000	37.520849000
6	48.009809000	40.011951000	37.367307000
1	49.085542000	41.321191000	35.433174000
1	47.831153000	42.086812000	37.950419000
1	48.753506000	39.323646000	36.946450000
1	47.695405000	39.633232000	38.344087000
1	47.133416000	40.018868000	36.712346000
6	47.509831000	46.797694000	37.792664000
6	48.018168000	46.633986000	39.219305000
8	47.799041000	47.471480000	40.108365000
6	46.317394000	45.851150000	37.490118000
6	45.219139000	45.904597000	38.568564000
8	45.435374000	45.243944000	39.627618000
8	44.198531000	46.624324000	38.349942000
1	47.211630000	47.840733000	37.661038000
1	45.895122000	46.132101000	36.520129000
1	46.692252000	44.826588000	37.414816000
7	48.688720000	45.480845000	39.449599000
6	48.959561000	44.987822000	40.786020000
6	48.513357000	43.528882000	40.942894000
6	48.894224000	42.984515000	42.317070000
8	47.104731000	43.359697000	40.789915000
1	48.884602000	44.868946000	38.655377000
1	48.428755000	45.634876000	41.489938000
1	49.030774000	42.936162000	40.169881000
1	46.682498000	44.054884000	40.218633000

1	48.437882000	43.590629000	43.107919000
1	48.536652000	41.956561000	42.428077000
1	49.982827000	42.989225000	42.452447000
6	39.590998000	39.876051000	46.575726000
6	38.359036000	39.029931000	46.225944000
8	37.223161000	39.427614000	46.475863000
6	40.798882000	39.790904000	45.636655000
6	41.864140000	40.832618000	45.975316000
8	41.343249000	38.459880000	45.764828000
1	39.240967000	40.910514000	46.633883000
1	40.461814000	39.939937000	44.600819000
1	42.012611000	38.335382000	45.071081000
1	42.192392000	40.720722000	47.015203000
1	42.740676000	40.719143000	45.326803000
1	41.478473000	41.849573000	45.840693000
7	38.621076000	37.818686000	45.661107000
6	37.577330000	36.854535000	45.355491000
6	37.942286000	35.947586000	44.166386000
6	38.043023000	36.738466000	42.846496000
6	36.932977000	34.792335000	44.078680000
6	38.687460000	35.964149000	41.690517000
1	39.598877000	37.559238000	45.565906000
1	36.661659000	37.419019000	45.150593000
1	38.934141000	35.511011000	44.374074000
1	37.034252000	37.068253000	42.556206000
1	38.620526000	37.653561000	43.027161000
1	37.182278000	34.100624000	43.267744000
1	36.903880000	34.216088000	45.011843000
1	35.920662000	35.174106000	43.890877000
1	38.755448000	36.578694000	40.786597000
1	39.704604000	35.646660000	41.958031000
1	38.115625000	35.064777000	41.430592000
6	47.912331000	33.130731000	42.313368000
6	47.104994000	33.832243000	43.407776000
16	47.637433000	35.562147000	43.729534000
1	47.780855000	33.627729000	41.348146000
1	46.038805000	33.820073000	43.169072000
1	47.225410000	33.304723000	44.362383000
6	41.317072000	47.869790000	44.506097000
6	42.793501000	47.494622000	44.395691000
8	43.562548000	47.620323000	45.352522000
6	40.460229000	46.769609000	45.172711000
6	40.899547000	46.305673000	46.576216000
6	40.982890000	47.463856000	47.581097000
6	39.952628000	45.204923000	47.079254000
1	41.268673000	48.791607000	45.094491000
1	39.426118000	47.141670000	45.229258000
1	40.429600000	45.898245000	44.504109000
1	41.906816000	45.878418000	46.489635000
1	41.775464000	48.161972000	47.298121000
1	40.031091000	48.011373000	47.638520000
1	41.210363000	47.089223000	48.587446000
1	39.904829000	44.363067000	46.376456000
1	40.278841000	44.812830000	48.050528000
1	38.930449000	45.588971000	47.202881000
7	43.181605000	47.007070000	43.184796000
6	44.514654000	46.483497000	42.924738000
6	44.540765000	44.950513000	42.771164000
6	44.065495000	44.221469000	44.024109000
8	43.716101000	44.537957000	41.683466000
1	42.480880000	46.845329000	42.471655000
1	45.147471000	46.799943000	43.757977000
1	45.584037000	44.666543000	42.567029000
1	44.186574000	44.802683000	40.853044000
1	44.166061000	43.138106000	43.894594000
1	44.646479000	44.527116000	44.901101000
1	43.011313000	44.447978000	44.219673000
8	45.147292000	38.539410000	41.816921000
26	46.310958000	37.063147000	42.641742000
7	44.607176000	36.242607000	43.373871000
7	46.499697000	38.253916000	44.276314000
7	46.087311000	35.922172000	40.972232000
6	44.059872000	34.660980000	41.589183000
6	44.477403000	37.508787000	45.475751000
6	48.603939000	39.399862000	43.726889000
6	48.047723000	36.760708000	39.721176000
6	43.825219000	35.261527000	42.817088000
6	45.635718000	38.297454000	45.348712000
6	48.803165000	38.850071000	42.471091000
6	46.906955000	35.936089000	39.864098000
6	42.715883000	34.945566000	43.691952000
6	46.095838000	39.225282000	46.323412000
6	49.923926000	39.156154000	41.604641000
6	46.464622000	34.994237000	38.902195000
6	42.831052000	35.753748000	44.779746000
6	47.276257000	39.751497000	45.838844000
6	49.754056000	38.428092000	40.471430000
6	45.340814000	34.381409000	39.437669000
6	44.012751000	36.564665000	44.578558000
6	47.501334000	39.136068000	44.575294000
6	48.536652000	37.662585000	40.642015000
6	45.127552000	34.975380000	40.709095000
7	47.966621000	37.946913000	41.866195000

1	43.360266000	33.896689000	41.263402000
1	43.889756000	37.654340000	46.378144000
1	49.345300000	40.106422000	44.087238000
1	48.605036000	36.655000000	38.794543000
6	43.477969000	42.365898000	33.527045000
6	43.730814000	42.521321000	35.753003000
6	43.894436000	42.873399000	37.099730000
6	44.081295000	40.153783000	36.319676000
6	43.808614000	41.147488000	35.373011000
6	43.522355000	43.288845000	34.551501000
6	44.158133000	41.881114000	38.039964000
6	44.268276000	40.526290000	37.657932000
7	43.625839000	41.083506000	34.008486000
6	43.519266000	44.787637000	34.473960000
6	42.407503000	45.474959000	35.309921000
7	42.786123000	46.804771000	35.774925000
6	42.570917000	47.917616000	35.050879000
8	40.808611000	47.898624000	33.938335000
6	43.034285000	49.222589000	35.673990000
8	44.287182000	42.345172000	39.331357000
6	44.481141000	41.469309000	40.410703000
1	43.380047000	42.510514000	32.458500000
1	43.832043000	43.900199000	37.442553000
1	43.668106000	49.754758000	34.957038000
1	44.450766000	38.247123000	41.186356000
1	43.790823000	40.620633000	40.363736000
1	44.271960000	42.091611000	41.283736000
1	44.197299000	39.114110000	36.020233000
1	44.556845000	39.780671000	38.388855000
1	44.483914000	45.160204000	34.848021000
1	43.446102000	45.125007000	33.433542000
1	42.180985000	44.879397000	36.197447000
1	41.490273000	45.562744000	34.722399000
1	43.576172000	49.096952000	36.613900000
1	42.160413000	49.856204000	35.861237000
1	43.778650000	40.269132000	33.938060000
1	43.295051000	46.860027000	36.665498000
8	45.783565000	40.925271000	40.452982000
1	45.602554000	39.313408000	41.405878000
1	46.387705000	41.696172000	40.604661000
1	48.981727000	33.133468000	42.553063000
1	47.588974000	32.085017000	42.208505000
1	50.382514000	38.393504000	39.590488000
1	50.718869000	39.848694000	41.850200000
1	47.918641000	40.494770000	46.293430000
1	45.592918000	39.449627000	47.255606000
1	42.188633000	35.814897000	45.648971000
1	41.957462000	34.202312000	43.480115000
1	44.726446000	33.604634000	38.999676000
1	46.935994000	34.811881000	37.944651000
1	50.033623000	45.049827000	41.017802000
1	48.314905000	46.568302000	37.085458000
1	44.904612000	46.930519000	42.002862000
1	40.892555000	48.087151000	43.519277000
1	41.559341000	36.205936000	37.634460000
1	39.964030000	40.246091000	36.280486000
1	37.369791000	36.229726000	46.239385000
1	39.921983000	39.593753000	47.585679000
1	41.315797000	41.673041000	27.950765000
1	41.041196000	46.069642000	29.292905000
1	40.001183000	51.729482000	33.834795000
1	42.040724000	50.015432000	41.735128000
1	42.313271000	54.770158000	39.580907000
1	47.302140000	53.195083000	39.594508000
1	49.430719000	41.405171000	38.222005000
1	50.579918000	44.362296000	34.729265000
1	47.638422000	38.378635000	34.523952000
1	50.675881000	39.384477000	31.326227000

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6	43.273741000	47.689290000	31.720244000
6	44.076487000	46.685430000	30.891075000
8	43.816825000	46.485286000	29.701573000
6	41.753827000	47.522205000	31.528131000
6	41.001196000	48.728539000	32.122739000
6	41.270862000	46.185151000	32.115140000
6	39.495273000	48.752234000	31.832876000
1	43.545007000	47.633110000	32.781170000
1	41.579827000	47.504488000	30.443446000
1	41.160004000	48.753772000	33.210964000
1	41.450596000	49.650700000	31.727279000
1	40.209531000	46.009791000	31.902090000
1	41.831228000	45.346520000	31.684793000
1	41.402468000	46.160981000	33.201593000
1	38.975298000	47.912423000	32.306868000
1	39.038368000	49.675695000	32.209101000
1	39.300160000	48.699499000	30.753698000
7	45.091398000	46.056881000	31.541061000
6	46.003254000	45.173316000	30.824951000
6	45.523112000	43.729039000	30.686015000
8	45.554277000	43.087045000	31.945487000
1	45.296251000	46.305463000	32.506624000
1	46.963136000	45.180752000	31.352419000

1	44.512603000	43.734030000	30.249776000	6	44.914227000	38.278896000	32.653702000
1	46.190169000	43.219923000	29.969588000	6	45.347054000	39.589762000	31.952866000
1	45.275038000	42.144482000	31.817874000	8	46.539807000	39.635239000	31.564459000
6	36.161207000	38.936398000	34.888074000	8	44.487843000	40.524156000	31.871429000
6	35.063075000	39.543278000	35.746725000	1	47.278473000	38.752752000	33.038759000
8	34.784285000	39.065858000	36.851623000	1	45.114075000	38.921678000	34.724649000
6	37.479786000	38.859144000	35.686327000	1	45.246589000	37.431901000	32.041279000
8	37.379671000	37.993780000	36.801711000	1	43.825604000	38.224164000	32.754657000
1	35.857686000	37.918048000	34.617694000	6	45.866906000	41.033291000	37.838676000
1	38.269085000	38.460328000	35.041374000	6	44.931655000	39.990274000	38.413763000
1	37.783590000	39.872506000	35.989205000	8	44.118952000	40.298414000	39.312483000
1	36.552997000	38.239742000	37.261051000	1	46.311995000	41.605033000	38.657760000
7	34.422246000	40.634387000	35.238341000	1	45.283365000	41.729921000	37.226426000
6	33.500273000	41.442764000	36.024675000	7	45.001957000	38.759479000	37.884298000
6	34.100001000	42.799630000	36.458544000	6	44.158230000	37.658162000	38.345383000
6	35.361426000	42.662227000	37.284034000	6	43.970407000	36.596931000	37.266881000
6	35.296363000	42.289210000	38.633702000	1	45.753570000	38.554219000	37.223095000
6	36.622873000	42.851990000	36.705138000	1	43.189975000	38.074737000	38.623769000
6	36.459098000	42.096744000	39.379644000	1	44.927853000	36.163880000	36.956535000
6	37.791666000	42.655429000	37.446440000	1	43.345836000	35.791502000	37.666112000
6	37.712348000	42.272103000	38.787237000	1	43.475947000	37.018462000	36.384489000
1	34.776379000	41.025517000	34.376229000	6	44.299124000	44.030676000	40.913546000
1	33.243586000	40.840615000	36.898602000	6	43.777982000	43.163251000	42.061283000
1	34.304140000	43.404251000	35.564293000	8	43.555847000	43.630289000	43.183526000
1	33.324234000	43.334625000	37.023002000	6	43.628585000	45.405527000	40.929172000
1	34.325652000	42.139436000	39.102347000	6	44.104750000	46.402595000	39.863475000
1	36.694286000	43.157886000	35.662908000	8	43.820212000	47.634333000	40.099904000
1	36.387650000	41.803578000	40.423668000	8	44.693673000	45.967837000	38.851199000
1	38.762307000	42.796395000	36.979248000	1	45.382699000	44.154895000	41.044277000
1	38.621774000	42.097729000	39.353271000	1	42.544339000	45.285885000	40.788402000
6	45.948056000	53.532894000	38.172835000	1	43.746547000	45.850943000	41.920353000
6	44.639060000	54.295038000	37.956978000	7	43.589128000	41.851942000	41.765569000
8	44.233390000	55.109910000	38.780615000	6	43.078577000	40.919247000	42.761148000
6	45.802317000	52.408996000	39.211483000	6	43.352654000	39.455831000	42.396834000
6	45.071220000	51.174340000	38.670543000	6	42.966666000	38.520609000	43.538012000
7	45.053962000	50.110889000	39.477403000	8	42.591429000	39.068044000	41.244075000
8	44.538350000	51.186052000	37.542344000	1	43.766032000	41.516824000	40.821157000
1	46.335498000	53.123006000	37.234998000	1	41.993626000	41.047377000	42.888356000
1	46.792102000	52.100039000	39.570289000	1	44.424243000	39.335079000	42.180237000
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7	43.979719000	54.009097000	36.790402000	1	43.538584000	38.751739000	44.443096000
6	42.638902000	54.496592000	36.524883000	6	38.963931000	33.215160000	42.430503000
6	41.488295000	53.478314000	36.649601000	6	37.661446000	33.314305000	41.627063000
8	40.359200000	53.809716000	36.292654000	8	36.605340000	32.862474000	42.072089000
1	44.296288000	53.182991000	36.297870000	6	39.978216000	34.358295000	42.283872000
1	42.448846000	55.303446000	37.237546000	6	41.134296000	34.210704000	43.277743000
7	41.817453000	52.270304000	37.166723000	8	40.459478000	34.343828000	40.943170000
6	40.870958000	51.176256000	37.319959000	1	38.667110000	33.107928000	43.478136000
6	41.326354000	49.927018000	36.535499000	1	39.461947000	35.313379000	42.486771000
6	40.460915000	48.718319000	36.816870000	1	41.081678000	35.108054000	40.830348000
6	39.255770000	48.520860000	36.127613000	1	41.638098000	33.246631000	43.139973000
6	40.831967000	47.785425000	37.797106000	1	41.872023000	35.002266000	43.113528000
6	38.441412000	47.421550000	36.405619000	1	40.778340000	34.276287000	44.313815000
6	40.018090000	46.684402000	38.075209000	7	37.782905000	33.890234000	40.398937000
6	38.819621000	46.497603000	37.382025000	6	36.679409000	33.995899000	39.461255000
1	42.788971000	52.061531000	37.385248000	6	36.269774000	35.443954000	39.115207000
1	39.899794000	51.534840000	36.970808000	6	35.771798000	36.198520000	40.362293000
1	41.315717000	50.166638000	35.464537000	6	35.225164000	35.416016000	37.988013000
1	42.367135000	49.713445000	36.804712000	6	35.608949000	37.711625000	40.170419000
1	38.957473000	49.233955000	35.361348000	1	38.719902000	34.200281000	40.140874000
1	41.763980000	47.916483000	38.343726000	1	35.837259000	33.462038000	39.912805000
1	37.513022000	47.284250000	35.855759000	1	37.161112000	35.963414000	38.731308000
1	40.324329000	45.968131000	38.833822000	1	34.815877000	35.759132000	40.684789000
1	38.191952000	45.636824000	37.596529000	1	36.478742000	36.018931000	41.181347000
6	46.767560000	50.492946000	32.641576000	1	34.954875000	36.421458000	37.651927000
6	48.151197000	49.850616000	32.628961000	1	35.606428000	34.871367000	37.115014000
7	48.201640000	48.604360000	33.169526000	1	34.307100000	34.912163000	38.321402000
8	49.132463000	50.427187000	32.166176000	1	35.281592000	38.189315000	41.102210000
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1	46.467373000	50.700858000	31.608962000	1	34.876084000	37.961776000	39.395852000
1	49.089807000	48.123029000	33.143882000	16	48.742564000	34.318213000	42.277284000
1	47.373983000	48.117681000	33.523003000	6	40.353004000	47.253628000	42.467979000
6	49.255639000	38.847668000	34.753009000	6	41.194150000	48.357316000	43.101080000
6	47.793531000	38.487477000	35.022693000	8	40.864169000	48.883929000	44.168105000
8	47.400837000	38.267550000	36.187910000	6	40.494136000	45.874921000	43.154763000
6	49.515587000	39.848683000	33.610833000	6	40.193737000	45.802921000	44.665210000
6	48.877282000	41.243432000	33.788754000	6	38.790701000	46.315233000	45.020139000
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6	48.925727000	42.024399000	32.468026000	1	39.311955000	47.590936000	42.520493000
1	49.656072000	39.217132000	35.701697000	1	39.818884000	45.180967000	42.630557000
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1	49.171489000	39.422614000	32.660034000	1	40.916910000	46.447333000	45.181299000
1	47.815436000	41.102869000	34.031927000	1	38.701830000	47.384520000	44.806884000
1	49.458159000	41.516065000	35.895396000	1	38.016134000	45.776132000	44.455616000
1	50.593991000	42.214445000	34.726652000	1	38.581818000	46.168611000	46.088040000
1	49.046182000	43.012598000	35.051048000	1	41.394523000	43.984849000	44.870868000
1	49.963330000	42.179774000	32.138071000	1	40.301333000	44.291104000	46.242537000
1	48.377661000	41.482459000	31.691218000	1	39.656055000	43.686195000	44.707986000
1	48.447084000	43.002970000	32.579241000	7	42.315153000	48.718376000	42.412715000
7	46.992626000	38.379813000	33.951757000	6	43.199064000	49.766760000	42.894338000
6	45.550258000	38.171425000	34.052248000	6	44.620682000	49.288023000	43.240398000

6	44.644615000	48.154726000	44.267731000
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1	42.721560000	50.188637000	43.782618000
1	45.148637000	50.155608000	43.660446000
1	44.839820000	48.321797000	41.517082000
1	45.679985000	47.885740000	44.501006000
1	44.137169000	48.453452000	45.192799000
1	44.139353000	47.262531000	43.883591000
8	44.918212000	35.792449000	41.549451000
26	46.402495000	35.191912000	41.906248000
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7	46.477810000	36.112954000	43.702809000
7	46.555631000	34.189423000	40.157559000
6	45.550784000	32.057894000	40.830819000
6	45.449219000	34.364662000	45.079877000
6	47.460978000	38.254025000	43.020036000
6	47.519807000	35.963447000	38.761959000
6	45.330827000	32.355737000	42.171835000
6	45.999789000	35.625523000	44.891025000
6	47.663694000	37.962370000	41.679805000
6	47.009410000	34.686485000	38.964532000
6	44.738063000	31.444619000	43.122030000
6	46.141493000	36.617585000	45.929749000
6	48.211352000	38.886185000	40.711539000
6	46.869458000	33.693225000	37.925356000
6	44.711034000	32.093837000	44.318764000
6	46.704219000	37.713674000	45.349473000
6	48.215837000	38.243906000	39.513268000
6	46.320789000	32.592177000	38.506667000
6	45.287167000	33.398452000	44.093688000
6	46.906065000	37.386635000	43.957816000
6	47.681486000	36.922087000	39.751636000
6	46.119765000	32.914856000	39.899595000
7	47.358742000	36.767157000	41.075553000
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1	47.748607000	39.242707000	43.364778000
1	47.796498000	36.250509000	37.752297000
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6	42.322168000	41.942575000	36.085677000
6	41.707690000	41.713460000	37.317605000
6	41.676748000	39.690179000	35.326724000
6	42.302618000	40.914503000	35.093764000
6	43.074672000	43.047938000	35.531587000
6	41.087104000	40.470680000	37.557438000
6	41.065920000	39.469812000	36.565842000
7	42.993288000	41.384007000	33.997319000
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8	45.833202000	47.275959000	34.232423000
6	46.186005000	48.357261000	36.366264000
8	40.533348000	40.331663000	38.793142000
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1	44.069918000	43.141776000	33.518864000
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1	39.103185000	38.829611000	38.506918000
1	39.625578000	39.195403000	40.185045000
1	41.662019000	38.914327000	34.565550000
1	40.578558000	38.521568000	36.757404000
1	42.513459000	44.920413000	36.437426000
1	43.907143000	44.160708000	37.167850000
1	43.819177000	45.554555000	34.440126000
1	45.189721000	44.593297000	34.966614000
1	46.208976000	48.044279000	37.413425000
1	45.571590000	49.262536000	36.298118000
1	43.329502000	40.864949000	33.164958000
1	44.788246000	46.344480000	37.096527000
8	42.285328000	36.343370000	40.677803000
1	43.181376000	36.023798000	40.913383000
1	42.294201000	37.291601000	40.945181000
1	48.510052000	38.602469000	38.535799000
1	48.527993000	39.896414000	40.938660000
1	46.961553000	38.662633000	45.802877000
1	45.839492000	36.478686000	46.960273000
1	44.339267000	31.740035000	45.272195000
1	44.393338000	30.445708000	42.885974000
1	46.062265000	31.644496000	38.051122000
1	47.159643000	33.841385000	36.893008000
1	43.544618000	41.164747000	43.721711000
1	44.159408000	43.537178000	39.946706000
1	43.278114000	50.556830000	42.135022000
1	40.600676000	47.144397000	41.404942000
1	36.318242000	39.502657000	33.961428000
1	32.583387000	41.612360000	35.445103000
1	36.947250000	33.471482000	38.531949000
1	39.466993000	32.281533000	42.139127000
1	46.151182000	45.584840000	29.820449000
1	43.570441000	48.688953000	31.371635000

1	46.827941000	51.453993000	33.162782000
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8	43.813413000	46.485492000	29.704981000
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6	35.070141000	39.560445000	35.741229000
8	34.788963000	39.076964000	36.842849000
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8	37.382327000	37.999933000	36.790391000
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1	36.555230000	38.244395000	37.249731000
7	34.431075000	40.654961000	35.238048000
6	33.508184000	41.459517000	36.027145000
6	34.108204000	42.813256000	36.469874000
6	35.367816000	42.669973000	37.297071000
6	35.299535000	42.291266000	38.644989000
6	36.630698000	42.859860000	36.721323000
6	36.460547000	42.093555000	39.392299000
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6	37.715197000	42.269153000	38.802976000
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1	33.249383000	40.852595000	36.897144000
1	34.314618000	43.422747000	35.579469000
1	33.331682000	43.345520000	37.035847000
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7	45.056573000	50.105967000	39.482231000
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7	43.986302000	54.007973000	36.799112000
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6	41.494220000	53.479900000	36.658506000
8	40.365082000	53.813301000	36.303561000
1	44.302117000	53.182696000	36.304749000
1	42.456793000	55.302994000	37.249088000
7	41.822654000	52.270310000	37.172326000
6	40.875025000	51.177174000	37.324871000
6	41.329303000	49.928090000	36.539597000
6	40.462959000	48.719906000	36.820428000
6	39.257956000	48.523329000	36.130671000
6	40.832880000	47.786734000	37.800837000
6	38.442805000	47.424480000	36.408189000
6	40.018138000	46.686232000	38.078530000
6	38.819931000	46.500213000	37.384704000
1	42.794006000	52.060312000	37.390447000
1	39.904097000	51.536806000	36.976063000

1	41.318753000	50.168410000	35.468786000	6	35.218850000	35.429626000	37.976489000
1	42.369944000	49.713537000	36.808556000	6	35.603993000	37.722253000	40.161762000
1	38.960483000	49.236659000	35.364314000	1	38.708981000	34.205558000	40.132536000
1	41.764622000	47.917246000	38.348057000	1	35.825561000	33.472328000	39.899202000
1	37.514594000	47.287848000	35.857845000	1	37.154820000	35.973153000	38.722905000
1	40.323391000	45.969865000	38.837444000	1	34.806359000	35.770704000	40.672715000
1	38.191560000	45.639882000	37.598964000	1	36.468912000	36.026710000	41.172229000
6	46.772539000	50.485506000	32.644187000	1	34.949859000	36.435896000	37.641852000
6	48.154808000	49.840287000	32.630205000	1	35.600567000	34.886151000	37.102970000
7	48.202908000	48.593395000	33.169542000	1	34.299953000	34.926097000	38.308043000
8	49.136993000	50.415124000	32.167237000	1	35.275937000	38.199563000	41.093505000
1	46.013059000	49.860484000	33.121411000	1	36.557298000	38.184861000	39.875635000
1	46.471506000	50.693342000	31.611803000	1	34.873030000	37.974690000	39.386146000
1	49.090053000	48.110234000	33.143113000	16	48.731123000	34.316497000	42.285369000
1	47.374635000	48.108658000	33.524143000	6	40.351451000	47.252914000	42.466786000
6	49.257773000	38.854532000	34.749404000	6	41.193768000	48.354354000	43.102274000
6	47.796234000	38.494231000	35.022165000	8	40.863163000	48.880439000	44.169364000
8	47.405129000	38.277923000	36.188448000	6	40.489385000	45.872987000	43.151838000
6	49.515527000	39.852768000	33.604302000	6	40.187111000	45.799419000	44.661844000
6	48.876324000	41.247469000	33.779170000	6	38.784548000	46.313665000	45.015917000
6	49.528262000	42.043127000	34.920231000	6	40.393714000	44.354984000	45.146337000
6	48.923429000	42.025165000	32.456503000	1	39.310932000	47.591931000	42.518546000
1	49.659359000	39.226642000	35.696546000	1	39.813418000	45.181016000	42.625951000
1	50.604162000	39.970558000	33.496774000	1	41.502281000	45.486981000	42.990667000
1	49.170660000	39.423872000	32.655057000	1	40.910848000	46.441795000	45.179697000
1	47.814715000	41.106859000	34.023324000	1	38.697814000	47.383413000	44.804149000
1	49.458069000	41.525685000	35.884782000	1	38.009697000	45.776767000	44.449678000
1	50.592966000	42.221875000	34.713809000	1	38.574137000	46.165821000	46.083349000
1	49.044823000	43.019891000	35.036974000	1	41.384360000	43.978869000	44.865991000
1	49.960714000	42.180566000	32.125581000	1	40.290511000	44.285234000	46.237147000
1	48.375386000	41.480822000	31.681349000	1	39.645516000	43.683645000	44.701177000
1	48.443947000	43.003544000	32.565650000	7	42.316726000	48.713627000	42.416174000
7	46.994180000	38.382377000	33.952410000	6	43.201850000	49.759954000	42.900032000
6	45.552068000	38.173771000	34.055511000	6	44.622935000	49.278860000	43.245033000
6	44.913708000	38.277868000	32.657763000	6	44.645788000	48.143369000	44.269966000
6	45.344512000	39.587416000	31.953290000	8	45.371887000	48.934939000	42.075606000
8	46.536180000	39.632626000	31.561738000	1	42.578401000	48.240623000	41.548044000
8	44.484881000	40.521626000	31.872651000	1	42.724777000	50.180580000	43.789137000
1	47.278724000	38.753055000	33.038131000	1	45.151850000	50.144964000	43.666916000
1	45.116758000	38.925317000	34.727001000	1	44.841583000	48.315112000	41.520284000
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1	43.825280000	38.222707000	32.760787000	1	44.138947000	48.440770000	45.195800000
6	45.867989000	41.030475000	37.846804000	1	44.139409000	47.252529000	43.884167000
6	44.932953000	39.986644000	38.420826000	8	44.918715000	35.786150000	41.544290000
8	44.118144000	40.294509000	39.317823000	26	46.410358000	35.195114000	41.892911000
1	46.313312000	41.601049000	38.666599000	7	45.652459000	33.535193000	42.764380000
1	45.284176000	41.727968000	37.235846000	7	46.473005000	36.114092000	43.692874000
7	45.005773000	38.755527000	37.892509000	7	46.567968000	34.195672000	40.145349000
6	44.162628000	37.653508000	38.352773000	6	45.558650000	32.062511000	40.809563000
6	43.974699000	36.593330000	37.273296000	6	45.437374000	34.362518000	45.061185000
1	45.757350000	38.551784000	37.230683000	6	47.460655000	38.254948000	43.019336000
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1	43.350186000	35.787492000	37.671809000	6	45.989544000	35.623440000	44.877528000
1	43.480141000	37.015761000	36.391371000	6	47.670295000	37.964573000	41.679916000
6	44.295709000	44.025884000	40.916115000	6	47.030673000	34.693026000	38.955845000
6	43.773133000	43.159256000	42.063816000	6	44.726720000	31.448289000	43.094413000
8	43.548837000	43.627161000	43.185255000	6	46.126266000	36.613173000	45.919439000
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6	44.104438000	46.398121000	39.865901000	6	46.899351000	33.699948000	37.915422000
8	43.820714000	47.629965000	40.102916000	6	44.694895000	32.095674000	44.291910000
8	44.694581000	45.963603000	38.854226000	6	46.691388000	37.710809000	45.344498000
1	45.379161000	44.149961000	41.047990000	6	48.236078000	38.248707000	39.517227000
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7	43.585540000	41.847539000	41.769029000	6	46.899888000	37.386765000	43.952991000
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6	43.347247000	39.451870000	42.401055000	6	46.135552000	32.920259000	39.883984000
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1	41.890094000	38.612680000	43.768262000	6	42.324325000	41.937029000	36.089372000
1	43.166250000	37.481087000	43.260619000	6	41.710509000	41.707024000	37.321340000
1	43.530434000	38.747851000	44.447603000	6	41.679051000	39.684820000	35.329305000
6	38.947330000	33.217091000	42.421623000	6	42.304696000	40.909436000	35.096839000
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8	36.588372000	32.870905000	42.059322000	6	41.089817000	40.463987000	37.560522000
6	39.964112000	34.358535000	42.278853000	6	41.068382000	39.463722000	36.568349000
6	41.118161000	34.206539000	43.274429000	7	42.994431000	41.379830000	34.000311000
8	40.447637000	34.345976000	40.938979000	6	43.423188000	44.341558000	36.203519000
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1	39.449293000	35.314165000	42.483071000	7	44.871126000	46.339464000	36.072144000
1	41.073911000	35.107357000	40.829532000	6	45.619122000	47.272103000	35.471475000
1	41.620642000	33.241979000	43.135117000	8	45.831456000	47.272031000	34.234681000
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7	37.771070000	33.896856000	40.388781000	6	39.956371000	39.070315000	39.154038000
6	36.669145000	34.005582000	39.449626000	1	44.069578000	43.138350000	33.521893000
6	36.262099000	35.454675000	39.104997000	1	41.724134000	42.441328000	38.120649000
6	35.763635000	36.208613000	40.352255000	1	47.197083000	48.603579000	36.030972000

1	40.697554000	38.263588000	39.111957000	1	-15.553665000	-34.868057000	28.435445000
1	39.104779000	38.823759000	38.508642000	1	-19.919255000	-37.119911000	30.019886000
1	39.627798000	39.187812000	40.187166000	1	-17.041051000	-39.234171000	26.488017000
1	41.663782000	38.909586000	34.567525000	1	-19.147429000	-40.331416000	27.261463000
1	40.580311000	38.515681000	36.759162000	1	-18.573931000	-35.264942000	30.985969000
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1	43.909819000	44.155725000	37.171263000	1	-16.240707000	-34.467363000	31.460187000
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1	45.573733000	49.258032000	36.300999000	1	-19.485401000	-30.456867000	32.304028000
1	43.330148000	40.861691000	33.166884000	1	-22.113046000	-40.013289000	30.421847000
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8	42.282902000	36.338287000	40.683467000	1	-20.603932000	-39.298023000	31.062436000
1	43.178302000	36.018869000	40.921710000	16	-18.292690000	-45.043893000	32.041310000
1	42.290540000	37.287117000	40.948610000	6	-16.722876000	-40.870177000	21.457497000
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1	45.819667000	36.471738000	46.948260000	6	-18.826260000	-42.029934000	22.237430000
1	44.315512000	31.741919000	45.242355000	6	-17.241057000	-40.964757000	23.940918000
1	44.379122000	30.451263000	42.854582000	6	-19.529441000	-42.965701000	23.227798000
1	46.092967000	31.650625000	38.034701000	1	-17.134354000	-39.852164000	21.458921000
1	47.196717000	33.848682000	36.885193000	1	-16.807499000	-42.642045000	22.658518000
1	43.539014000	41.161086000	43.725601000	1	-19.397968000	-41.093246000	22.154945000
1	44.157091000	43.531787000	39.949421000	1	-18.847559000	-42.491178000	21.239244000
1	43.281945000	50.551584000	42.142432000	1	-17.600051000	-41.583242000	24.770264000
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1	36.328879000	39.529261000	33.958117000	1	-17.840230000	-40.043445000	23.936038000
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1	36.937527000	33.482195000	38.519900000	1	-18.971570000	-43.903804000	23.347161000
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1	43.566903000	48.687217000	31.377060000	6	-13.202675000	-39.381263000	21.772567000
1	46.835553000	51.446753000	33.164701000	6	-12.867877000	-38.866475000	23.172571000
1	40.776185000	50.921520000	38.388328000	8	-13.698106000	-37.754023000	23.456485000
1	42.579667000	54.923178000	35.527525000	1	-15.205092000	-38.856226000	21.985297000
1	46.676556000	54.259444000	38.556867000	1	-12.911182000	-38.634243000	21.022208000
1	44.592328000	37.204022000	39.255483000	1	-13.037839000	-39.665273000	23.902432000
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Central iron atom parameter generated by MCPB.py

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SMALL

RESP Charge

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1 FE1 1 TEMP 0 **** ** 0 ROOT

Por complex of Cpdl

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HM1

72 76 1 0 0

SMALL

RESP Charge

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3	CHC	4.5320	24.0690	27.1820	ce	1	HM1	-0.214791
4	CHD	1.7430	24.8320	23.4530	ce	1	HM1	-0.088846
5	C1A	6.4790	25.3360	21.2110	cc	1	HM1	-0.006007

6 C2A	7.8190	25.3410	20.6940 cc	1 HM1	-0.063546
7 C3A	8.6560	25.0820	21.7840 cd	1 HM1	0.024111
8 C4A	7.7860	24.9180	22.9170 cd	1 HM1	-0.031981
9 CMA	10.2610	24.9950	21.7700 c3	1 HM1	-0.298638
10 CAA	8.2700	25.5850	19.2740 c3	1 HM1	-0.055406
11 CBA	8.5860	27.0180	18.8670 c3	1 HM1	-0.102302
12 CGA	9.1290	27.0440	17.4180 c	1 HM1	0.700663
13 O1A	9.9800	27.8390	17.0880 o	1 HM1	-0.563996
14 O2A	8.7710	26.2450	16.5850 o	1 HM1	-0.525312
15 C1B	7.5010	24.1910	25.3530 cc	1 HM1	-0.004532
16 C2B	8.1050	23.8060	26.5880 cc	1 HM1	0.065865
17 C3B	7.0200	23.6170	27.4710 cd	1 HM1	-0.021290
18 C4B	5.8360	23.9190	26.6850 cd	1 HM1	-0.005691
19 CMB	9.6190	23.6600	26.8390 c3	1 HM1	-0.218500
20 CAB	7.0260	23.2290	28.8230 cf	1 HM1	-0.075056
21 CBB	8.0620	23.1600	29.7660 c2	1 HM1	-0.469514
22 C1C	3.3770	24.3330	26.4810 cc	1 HM1	0.057021
23 C2C	2.1030	24.2600	26.9930 cc	1 HM1	0.060742
24 C3C	1.2340	24.3100	25.8660 cd	1 HM1	-0.025203
25 C4C	2.1010	24.4050	24.7500 cd	1 HM1	-0.031937
26 CMC	1.7630	24.1530	28.5150 c3	1 HM1	-0.170304
27 CAC	-0.1430	24.2840	25.7030 cf	1 HM1	-0.074837
28 CBC	-1.1220	24.4650	26.6570 c2	1 HM1	-0.446459
29 C1D	2.4180	24.9280	22.2820 cc	1 HM1	-0.011905
30 C2D	1.8100	25.1480	21.0120 cc	1 HM1	0.106347
31 C3D	2.8200	25.4120	20.1390 cd	1 HM1	-0.085844
32 C4D	3.9980	25.3270	20.9310 cd	1 HM1	0.005751
33 CMD	0.2980	25.0880	20.6880 c3	1 HM1	-0.323133
34 CAD	2.7920	25.7390	18.6180 c3	1 HM1	-0.066217

35 CBD	2.7120	27.3010	18.3350 c3	1 HM1	-0.032525
36 CGD	2.7590	27.7460	16.8150 c	1 HM1	0.551914
37 O1D	2.3810	28.9210	16.4360 o	1 HM1	-0.540575
38 O2D	3.2250	26.8720	15.9620 o	1 HM1	-0.505851
39 NA	6.5090	25.0700	22.5760 Y3	1 HM1	0.074371
40 NB	6.1560	24.2480	25.4440 Y4	1 HM1	0.012513
41 NC	3.3630	24.4140	25.1650 Y5	1 HM1	0.061010
42 ND	3.6970	25.0430	22.1850 Y6	1 HM1	0.066520
43 HHA	5.4070	26.0270	19.5160 ha	1 HM1	0.214672
44 HHB	9.2340	24.2010	24.2170 ha	1 HM1	0.159095
45 HHC	4.4200	23.9640	28.2510 ha	1 HM1	0.153782
46 HHD	0.7130	25.1490	23.3780 ha	1 HM1	0.095662
47 HAA2	9.1720	24.9950	19.1130 hc	1 HM1	0.035218
48 HAA3	7.4970	25.2070	18.6050 hc	1 HM1	0.035218
49 HBA2	9.3370	27.4290	19.5420 hc	1 HM1	0.025979
50 HBA3	7.6790	27.6200	18.9250 hc	1 HM1	0.025979
51 HAB	6.0600	22.9310	29.2030 ha	1 HM1	0.106817
52 HAC	-0.4940	24.0980	24.6990 ha	1 HM1	0.100737
53 HAD2	3.6990	25.3460	18.1590 hc	1 HM1	0.032992
54 HAD3	1.9270	25.2520	18.1670 hc	1 HM1	0.032992
55 HBD2	3.5520	27.7730	18.8450 hc	1 HM1	0.022084
56 HBD3	1.7890	27.6810	18.7740 hc	1 HM1	0.022084
57 HBC1	-0.8470	24.6560	27.6840 ha	1 HM1	0.147977
58 HBC2	-2.1640	24.4160	26.3770 ha	1 HM1	0.147977
59 HMA1	10.6230	24.7820	22.7760 hc	1 HM1	0.087046
60 HMA2	10.5760	24.1990	21.0950 hc	1 HM1	0.087046
61 HMA3	10.6730	25.9450	21.4290 hc	1 HM1	0.087046
62 HMB1	10.1590	23.8130	25.9050 hc	1 HM1	0.061747
63 HMB2	9.9390	24.4030	27.5690 hc	1 HM1	0.061747

64 HMB3	9.8290	22.6610	27.2210	hc	1 HM1	0.061747
65 HMC1	2.6740	23.9490	29.0780	hc	1 HM1	0.045527
66 HMC2	1.3280	25.0920	28.8570	hc	1 HM1	0.045527
67 HMC3	1.0500	23.3440	28.6720	hc	1 HM1	0.045527
68 HMD1	0.1500	25.2150	19.6160	hc	1 HM1	0.085077
69 HMD2	-0.2200	25.8840	21.2230	hc	1 HM1	0.085077
70 HMD3	-0.1020	24.1230	20.9980	hc	1 HM1	0.085077
71 HBB1	9.0670	23.4370	29.4840	ha	1 HM1	0.155797
72 HBB2	7.8550	22.8290	30.7730	ha	1 HM1	0.155797

@<TRIPOS>BOND

1 1 5 1
2 1 32 1
3 1 43 1
4 2 8 1
5 2 15 1
6 2 44 1
7 3 18 1
8 3 22 1
9 3 45 1
10 4 25 1
11 4 29 1
12 4 46 1
13 5 6 1
14 5 39 1
15 6 7 1
16 6 10 1
17 7 8 1
18 7 9 1
19 8 39 1

20 9 59 1
21 9 60 1
22 9 61 1
23 10 11 1
24 10 47 1
25 10 48 1
26 11 12 1
27 11 49 1
28 11 50 1
29 12 13 1
30 12 14 1
31 15 16 1
32 15 40 1
33 16 17 1
34 16 19 1
35 17 18 1
36 17 20 1
37 18 40 1
38 19 62 1
39 19 63 1
40 19 64 1
41 20 21 1
42 20 51 1
43 21 71 1
44 21 72 1
45 22 23 1
46 22 41 1
47 23 24 1
48 23 26 1

49 24 25 1
50 24 27 1
51 25 41 1
52 26 65 1
53 26 66 1
54 26 67 1
55 27 28 1
56 27 52 1
57 28 57 1
58 28 58 1
59 29 30 1
60 29 42 1
61 30 31 1
62 30 33 1
63 31 32 1
64 31 34 1
65 32 42 1
66 33 68 1
67 33 69 1
68 33 70 1
69 34 35 1
70 34 53 1
71 34 54 1
72 35 36 1
73 35 55 1
74 35 56 1
75 36 37 1
76 36 38 1

@<TRIPOS>SUBSTRUCTURE

1 HM1 1 TEMP 0 **** ** 0 ROOT

Oxygen atom of CpdI

@<TRIPOS>MOLECULE

OO1

1 0 1 0 0

SMALL

RESP Charge

@<TRIPOS>ATOM

1 O1 4.7240 23.5100 23.4100 Y2 1 OO1 -0.412137

@<TRIPOS>BOND

@<TRIPOS>SUBSTRUCTURE

1 OO1 1 TEMP 0 **** ** 0 ROOT

Cysteine ligand of CpdI

@<TRIPOS>MOLECULE

CS1

10 9 1 0 0

SMALL

RESP Charge

@<TRIPOS>ATOM

1 N	6.3070	29.4380	21.9000	N	1 CS1	-0.415700
2 CA	5.3050	28.7430	22.6880	CX	1 CS1	0.021300
3 C	4.1120	29.5970	23.2160	C	1 CS1	0.597300
4 O	4.2890	30.6070	23.8710	O	1 CS1	-0.567900
5 CB	5.9850	28.0610	23.8670	2C	1 CS1	-0.009069
6 SG	4.7990	27.1450	24.8480	Y1	1 CS1	-0.515874

7 H	7.2770	29.1830	22.0200	H	1 CS1	0.233040
8 HA	4.8860	27.9580	22.0580	H1	1 CS1	-0.012348
9 HB2	6.7440	27.3740	23.4920	H1	1 CS1	0.062133
10 HB3	6.4610	28.8160	24.4920	H1	1 CS1	0.062133

@<TRIPOS>BOND

1	1	2	1
2	1	7	1
3	2	3	1
4	2	5	1
5	2	8	1
6	3	4	1
7	5	6	1
8	5	9	1
9	5	10	1

@<TRIPOS>SUBSTRUCTURE

1 CS1	1 TEMP	0 ****	****	0 ROOT
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Hydrogen bonds list of model I, II, III and IV of CYP1A1 with melatonin

Model I

RES_DONOR,ATOM_DONOR,RES_ACCEPTOR,ATOM_ACCEPTOR,
TAG

1,37,O,39,H,37-O-39-H

2,37,O,39,HD22,37-O-39-HD22

3,38,O,400,H,38-O-400-H

4,39,O,38,HZ2,39-O-38-HZ2

5,39,OD1,39,H,39-OD1-39-H

6,39,ND2,39,H,39-ND2-39-H

7,39,ND2,75,HE22,39-ND2-75-HE22

8,39,OD1,405,HH21,39-OD1-405-HH21

9,39,O,39,HD22,39-O-39-HD22

10,39,OD1,75,HE22,39-OD1-75-HE22

11,40,O,75,HE21,40-O-75-HE21

12,40,O,39,HD22,40-O-39-HD22

13,41,O,75,H,41-O-75-H

14,43,O,51,HE2,43-O-51-HE2

15,44,O,51,HE2,44-O-51-HE2

16,45,O,77,HE,45-O-77-HE

17,45,O,77,HH22,45-O-77-HH22

18,45,O,77,HH21,45-O-77-HH21

19,45,O,77,HH11,45-O-77-HH11

20,45,O,77,HH12,45-O-77-HH12

21,46,O,49,H,46-O-49-H

22,46,O,50,H,46-O-50-H

23,46,O,77,HH21,46-O-77-HH21

24,46,O,48,H,46-O-48-H

25,46,O,77,HH12,46-O-77-HH12

26,47,O,77,HE,47-O-77-HE

27,47,O,77,HH22,47-O-77-HH22

28,47,O,77,HH11,47-O-77-HH11

29,47,O,80,HG,47-O-80-HG

30,47,O,77,HH21,47-O-77-HH21

31,49,O,79,H,49-O-79-H

32,50,O,52,H,50-O-52-H

33,50,O,53,H,50-O-53-H

34,50,O,46,H,50-O-46-H

35,51,O,55,H,51-O-55-H

36,51,ND1,51,H,51-ND1-51-H

37,51,O,54,H,51-O-54-H

38,51,ND1,77,H,51-ND1-77-H

39,51,O,54,HG1,51-O-54-HG1

40,52,O,54,H,52-O-54-H

41,52,O,55,H,52-O-55-H

42,52,O,56,H,52-O-56-H

43,53,O,56,H,53-O-56-H

44,54,O,65,HH22,54-O-65-HH22

45,55,O,58,HD22,55-O-58-HD22

46,55,O,58,H,55-O-58-H

47,57,O,58,HD22,57-O-58-HD22

48,57,O,57,HZ1,57-O-57-HZ1

49,57,O,57,HZ2,57-O-57-HZ2

50,58,OD1,494,H,58-OD1-494-H

51,58,O,58,HD22,58-O-58-HD22

52,58,O,61,H,58-O-61-H

53,58,O,62,H,58-O-62-H

54,59,O,63,H,59-O-63-H

55,59,O,62,H,59-O-62-H

56,60,O,64,H,60-O-64-H

57,60,O,64,HG,60-O-64-HG

58,60,ND1,61,H,60-ND1-61-H

59,60,O,410,HD21,60-O-410-HD21

60,60,ND1,60,H,60-ND1-60-H

61,61,O,64,H,61-O-64-H

62,61,O,65,H,61-O-65-H

63,62,O,66,H,62-O-66-H

64,62,O,65,H,62-O-65-H

65,63,O,67,H,63-O-67-H

66,63,O,67,HG,63-O-67-HG

67,63,O,66,H,63-O-66-H

68,63,O,410,HD22,63-O-410-HD22

69,64,O,68,HE22,64-O-68-HE22

70,64,O,67,H,64-O-67-H

71,64,OG,410,HD21,64-OG-410-HD21

72,64,O,68,H,64-O-68-H

73,64,O,67,HG,64-O-67-HG

74,64,O,68,HE21,64-O-68-HE21

75,64,O,413,HE22,64-O-413-HE22

76,65,O,65,HH11,65-O-65-HH11	116,72,OD1,397,HZ2,72-OD1-397-HZ2
77,65,O,68,H,65-O-68-H	117,72,OD2,397,HZ2,72-OD2-397-HZ2
78,65,O,69,HE22,65-O-69-HE22	118,72,OD2,72,H,72-OD2-72-H
79,65,O,69,HE21,65-O-69-HE21	119,72,OD1,397,HZ1,72-OD1-397-HZ1
80,65,O,69,H,65-O-69-H	120,72,OD2,397,HZ3,72-OD2-397-HZ3
81,66,O,69,H,66-O-69-H	121,72,O,87,H,72-O-87-H
82,66,O,70,H,66-O-70-H	122,74,O,85,H,74-O-85-H
83,67,OG,413,HE22,67-OG-413-HE22	123,75,OE1,39,HD22,75-OE1-39-HD22
84,67,OG,410,HD22,67-OG-410-HD22	124,75,NE2,39,HD21,75-NE2-39-HD21
85,67,O,70,H,67-O-70-H	125,75,OE1,77,HH21,75-OE1-77-HH21
86,67,O,69,H,67-O-69-H	126,75,OE1,405,HH21,75-OE1-405-HH21
87,67,O,71,H,67-O-71-H	127,75,OE1,39,HD21,75-OE1-39-HD21
88,67,OG,68,HE21,67-OG-68-HE21	128,75,OE1,405,HE,75-OE1-405-HE
89,67,OG,413,HE21,67-OG-413-HE21	129,75,NE2,39,HD22,75-NE2-39-HD22
90,67,OG,87,HG,67-OG-87-HG	130,75,OE1,77,HE,75-OE1-77-HE
91,68,NE2,418,HE22,68-NE2-418-HE22	131,76,O,75,HE21,76-O-75-HE21
92,68,OE1,418,HE22,68-OE1-418-HE22	132,76,O,83,H,76-O-83-H
93,68,OE1,419,HZ1,68-OE1-419-HZ1	133,77,O,51,H,77-O-51-H
94,68,OE1,65,HH11,68-OE1-65-HH11	134,78,O,81,H,78-O-81-H
95,68,OE1,419,HZ3,68-OE1-419-HZ3	135,78,O,80,H,78-O-80-H
96,68,OE1,419,HZ2,68-OE1-419-HZ2	136,79,O,77,HH11,79-O-77-HH11
97,68,NE2,413,HE22,68-NE2-413-HE22	137,79,O,81,H,79-O-81-H
98,68,OE1,68,H,68-OE1-68-H	138,79,O,48,H,79-O-48-H
99,68,OE1,413,HE22,68-OE1-413-HE22	139,79,O,77,HE,79-O-77-HE
100,68,OE1,65,HE,68-OE1-65-HE	140,80,O,80,HG,80-O-80-HG
101,68,O,68,HE21,68-O-68-HE21	141,80,O,77,HH11,80-O-77-HH11
102,69,OE1,65,HH22,69-OE1-65-HH22	142,80,O,77,HE,80-O-77-HE
103,69,OE1,68,HE21,69-OE1-68-HE21	143,80,O,77,HH21,80-O-77-HH21
104,69,OE1,70,HH,69-OE1-70-HH	144,80,O,81,HG1,80-O-81-HG1
105,69,O,69,HE21,69-O-69-HE21	145,80,OG,77,HH21,80-OG-77-HH21
106,69,OE1,65,HH12,69-OE1-65-HH12	146,80,OG,81,HG1,80-OG-81-HG1
107,70,OH,69,HE21,70-OH-69-HE21	147,81,O,81,HG1,81-O-81-HG1
108,71,O,67,HG,71-O-67-HG	148,81,O,78,H,81-O-78-H
109,71,O,87,HG,71-O-87-HG	149,82,O,405,HH21,82-O-405-HH21
110,72,OD2,91,HG1,72-OD2-91-HG1	150,82,O,405,HH11,82-O-405-HH11
111,72,OD2,397,HZ1,72-OD2-397-HZ1	151,83,O,76,H,83-O-76-H
112,72,OD1,72,H,72-OD1-72-H	152,83,O,75,HE21,83-O-75-HE21
113,72,O,88,H,72-O-88-H	153,84,O,408,H,84-O-408-H
114,72,OD1,91,HG1,72-OD1-91-HG1	154,85,O,87,HG,85-O-87-HG
115,72,OD1,397,HZ3,72-OD1-397-HZ3	155,85,O,74,H,85-O-74-H

156,86,O,410,H,86-O-410-H	196,91,OG1,397,HZ1,91-OG1-397-HZ1
157,86,O,87,HG,86-O-87-HG	197,91,O,95,H,91-O-95-H
158,87,O,87,HG,87-O-87-HG	198,91,OG1,397,HZ3,91-OG1-397-HZ3
159,87,O,413,HE21,87-O-413-HE21	199,91,OG1,397,HZ2,91-OG1-397-HZ2
160,87,O,91,HG1,87-O-91-HG1	200,92,O,96,H,92-O-96-H
161,87,O,413,HE22,87-O-413-HE22	201,92,O,95,H,92-O-95-H
162,87,OG,410,HD22,87-OG-410-HD22	202,93,O,98,H,93-O-98-H
163,87,OG,67,HG,87-OG-67-HG	203,93,O,97,H,93-O-97-H
164,88,O,92,H,88-O-92-H	204,94,OE1,397,H,94-OE1-397-H
165,88,O,91,H,88-O-91-H	205,94,O,98,H,94-O-98-H
166,89,O,93,H,89-O-93-H	206,94,OE1,397,HZ2,94-OE1-397-HZ2
167,89,O,92,H,89-O-92-H	207,94,OE1,397,HZ3,94-OE1-397-HZ3
168,90,O,98,HH12,90-O-98-HH12	208,94,O,99,H,94-O-99-H
169,90,OD2,93,HH12,90-OD2-93-HH12	209,94,OE1,397,HZ1,94-OE1-397-HZ1
170,90,OD2,93,HH22,90-OD2-93-HH22	210,94,O,99,HE21,94-O-99-HE21
171,90,OD2,419,HZ2,90-OD2-419-HZ2	211,94,OE1,98,HE,94-OE1-98-HE
172,90,OD1,93,HH21,90-OD1-93-HH21	212,94,OE1,98,HH21,94-OE1-98-HH21
173,90,OD2,98,HH12,90-OD2-98-HH12	213,94,OE1,98,HH11,94-OE1-98-HH11
174,90,OD2,93,HE,90-OD2-93-HE	214,95,O,100,H,95-O-100-H
175,90,OD2,91,H,90-OD2-91-H	215,95,O,99,H,95-O-99-H
176,90,OD1,397,HZ3,90-OD1-397-HZ3	216,96,O,454,H,96-O-454-H
177,90,OD1,397,HZ1,90-OD1-397-HZ1	217,97,O,100,H,97-O-100-H
178,90,O,98,HH22,90-O-98-HH22	218,97,O,454,HZ3,97-O-454-HZ3
179,90,O,94,H,90-O-94-H	219,97,O,454,HZ2,97-O-454-HZ2
180,90,OD1,98,HH22,90-OD1-98-HH22	220,98,O,99,HE21,98-O-99-HE21
181,90,OD2,397,HZ3,90-OD2-397-HZ3	221,98,O,98,HH11,98-O-98-HH11
182,90,OD1,93,HH11,90-OD1-93-HH11	222,99,O,103,H,99-O-103-H
183,90,OD2,93,HH21,90-OD2-93-HH21	223,99,O,102,H,99-O-102-H
184,90,OD1,93,HE,90-OD1-93-HE	224,99,O,101,H,99-O-101-H
185,90,OD2,90,H,90-OD2-90-H	225,99,OE1,94,HE21,99-OE1-94-HE21
186,90,OD1,91,H,90-OD1-91-H	226,99,OE1,394,HG1,99-OE1-394-HG1
187,90,OD1,90,H,90-OD1-90-H	227,100,O,104,H,100-O-104-H
188,90,OD2,397,HZ1,90-OD2-397-HZ1	228,100,O,103,H,100-O-103-H
189,90,OD2,91,HG1,90-OD2-91-HG1	229,101,OD2,392,HH12,101-OD2-392-HH12
190,90,OD2,93,HH11,90-OD2-93-HH11	230,101,OD1,392,HH12,101-OD1-392-HH12
191,90,OD2,397,HZ2,90-OD2-397-HZ2	231,101,O,104,HZ1,101-O-104-HZ1
192,90,OD1,91,HG1,90-OD1-91-HG1	232,101,O,104,HZ2,101-O-104-HZ2
193,90,OD2,98,HH22,90-OD2-98-HH22	233,101,OD1,392,HH22,101-OD1-392-HH22
194,90,OD1,397,HZ2,90-OD1-397-HZ2	234,101,OD2,454,HZ1,101-OD2-454-HZ1
195,90,OD1,98,HH12,90-OD1-98-HH12	235,101,O,104,HZ3,101-O-104-HZ3

236,101,OD2,392,HH22,101-OD2-392-HH22	276,108,OD1,108,H,108-OD1-108-H
237,101,OD2,104,HZ1,101-OD2-104-HZ1	277,108,O,241,HH12,108-O-241-HH12
238,101,OD2,454,HZ3,101-OD2-454-HZ3	278,109,O,113,HG1,109-O-113-HG1
239,101,OD1,454,HZ3,101-OD1-454-HZ3	279,109,O,112,H,109-O-112-H
240,101,OD2,104,HZ3,101-OD2-104-HZ3	280,109,O,113,H,109-O-113-H
241,101,OD2,104,HZ2,101-OD2-104-HZ2	281,110,O,113,H,110-O-113-H
242,101,OD1,454,HZ2,101-OD1-454-HZ2	282,110,OH,252,HZ2,110-OH-252-HZ2
243,101,OD2,454,HZ2,101-OD2-454-HZ2	283,110,O,114,H,110-O-114-H
244,101,OD1,104,HZ3,101-OD1-104-HZ3	284,110,OH,241,HH21,110-OH-241-HH21
245,101,OD1,104,HZ1,101-OD1-104-HZ1	285,110,OH,252,HZ1,110-OH-252-HZ1
246,101,OD1,104,HZ2,101-OD1-104-HZ2	286,110,OH,242,HH,110-OH-242-HH
247,101,OD1,454,HZ1,101-OD1-454-HZ1	287,110,O,113,HG1,110-O-113-HG1
248,101,O,392,HH12,101-O-392-HH12	288,110,OH,252,HZ3,110-OH-252-HZ3
249,101,O,391,HG1,101-O-391-HG1	289,111,O,114,H,111-O-114-H
250,102,OD2,392,HE,102-OD2-392-HE	290,111,OG1,112,H,111-OG1-112-H
251,102,OD1,392,HH21,102-OD1-392-HH21	291,111,O,115,H,111-O-115-H
252,102,OD2,394,HG1,102-OD2-394-HG1	292,112,O,115,H,112-O-115-H
253,102,OD1,392,HH11,102-OD1-392-HH11	293,113,O,118,H,113-O-118-H
254,102,OD1,392,HE,102-OD1-392-HE	294,113,O,113,HG1,113-O-113-HG1
255,102,OD2,99,HE21,102-OD2-99-HE21	295,114,O,117,H,114-O-117-H
256,102,OD2,392,HH21,102-OD2-392-HH21	296,114,O,118,H,114-O-118-H
257,102,O,104,H,102-O-104-H	297,115,O,120,H,115-O-120-H
258,102,O,391,HG1,102-O-391-HG1	298,115,O,118,H,115-O-118-H
259,102,OD1,394,HG1,102-OD1-394-HG1	299,116,O,309,HD22,116-O-309-HD22
260,102,O,391,H,102-O-391-H	300,116,O,119,HE21,116-O-119-HE21
261,102,OD1,99,HE21,102-OD1-99-HE21	301,116,O,309,HD21,116-O-309-HD21
262,103,O,388,HD1,103-O-388-HD1	302,116,O,117,HD22,116-O-117-HD22
263,103,O,105,H,103-O-105-H	303,116,O,119,H,116-O-119-H
264,104,O,455,HE,104-O-455-HE	304,117,OD1,119,HE21,117-OD1-119-HE21
265,104,O,455,HH21,104-O-455-HH21	305,117,ND2,259,HH,117-ND2-259-HH
266,104,O,127,HG,104-O-127-HG	306,117,O,119,HE21,117-O-119-HE21
267,105,O,389,H,105-O-389-H	307,117,OD1,309,HD21,117-OD1-309-HD21
268,107,O,109,H,107-O-109-H	308,117,OD1,119,HE22,117-OD1-119-HE22
269,108,OD2,108,H,108-OD2-108-H	309,117,OD1,309,HD22,117-OD1-309-HD22
270,108,OD1,241,HH22,108-OD1-241-HH22	310,117,O,117,HD22,117-O-117-HD22
271,108,OD1,241,HH12,108-OD1-241-HH12	311,118,O,124,HG,118-O-124-HG
272,108,OD2,241,HH22,108-OD2-241-HH22	312,118,O,119,HE21,118-O-119-HE21
273,108,OD2,241,HH12,108-OD2-241-HH12	313,119,OE1,134,HH22,119-OE1-134-HH22
274,108,OD2,109,H,108-OD2-109-H	314,119,OE1,309,HD22,119-OE1-309-HD22
275,108,O,241,HH22,108-O-241-HH22	315,119,OE1,306,HZ2,119-OE1-306-HZ2

316,119,OE1,309,HD21,119-OE1-309-HD21
317,119,OE1,117,HD22,119-OE1-117-HD22
318,119,NE2,309,HD22,119-NE2-309-HD22
319,119,OE1,306,HZ1,119-OE1-306-HZ1
320,119,OE1,306,HZ3,119-OE1-306-HZ3
321,119,O,309,HD21,119-O-309-HD21
322,119,O,134,HH21,119-O-134-HH21
323,119,O,134,HH12,119-O-134-HH12
324,119,O,134,HH22,119-O-134-HH22
325,120,O,134,HH12,120-O-134-HH12
326,120,OG,122,H,120-OG-122-H
327,120,O,134,HH22,120-O-134-HH22
328,120,O,124,HG,120-O-124-HG
329,120,OG,123,H,120-OG-123-H
330,120,OG,122,HG,120-OG-122-HG
331,120,O,123,H,120-O-123-H
332,120,O,124,H,120-O-124-H
333,121,O,455,HH22,121-O-455-HH22
334,121,O,455,HH12,121-O-455-HH12
335,121,O,124,H,121-O-124-H
336,121,O,131,HE1,121-O-131-HE1
337,122,O,106,HH21,122-O-106-HH21
338,122,OG,516,H10,122-OG-516-H10
339,122,O,455,HH12,122-O-455-HH12
340,122,O,106,HE,122-O-106-HE
341,124,OG,306,HZ3,124-OG-306-HZ3
342,124,O,455,HH12,124-O-455-HH12
343,124,O,455,HH22,124-O-455-HH22
344,124,OG,126,H,124-OG-126-H
345,124,OG,134,HH12,124-OG-134-HH12
346,124,O,126,H,124-O-126-H
347,124,OG,455,HH22,124-OG-455-HH22
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349,125,O,127,H,125-O-127-H
350,125,O,127,HG,125-O-127-HG
351,125,O,106,H,125-O-106-H
352,126,OD2,134,HH12,126-OD2-134-HH12
353,126,OD1,126,H,126-OD1-126-H
354,126,OD2,134,HH22,126-OD2-134-HH22
355,126,OD2,126,H,126-OD2-126-H
356,126,OD1,127,H,126-OD1-127-H
357,126,OD1,131,H,126-OD1-131-H
358,126,OD2,306,HZ3,126-OD2-306-HZ3
359,126,OD1,124,HG,126-OD1-124-HG
360,126,OD1,134,HH12,126-OD1-134-HH12
361,126,O,455,HH21,126-O-455-HH21
362,126,O,124,HG,126-O-124-HG
363,126,OD1,128,H,126-OD1-128-H
364,126,OD2,128,H,126-OD2-128-H
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366,126,OD1,134,HH22,126-OD1-134-HH22
367,126,OD2,127,H,126-OD2-127-H
368,126,OD2,306,HZ2,126-OD2-306-HZ2
369,126,OD2,134,HH11,126-OD2-134-HH11
370,126,OD1,306,HZ3,126-OD1-306-HZ3
371,126,O,455,HE,126-O-455-HE
372,126,OD2,306,HZ1,126-OD2-306-HZ1
373,126,OD1,306,HZ1,126-OD1-306-HZ1
374,126,O,455,HH22,126-O-455-HH22
375,126,O,455,HH12,126-O-455-HH12
376,126,OD1,306,HZ2,126-OD1-306-HZ2
377,126,OD2,131,H,126-OD2-131-H
378,126,O,127,HG,126-O-127-HG
379,127,OG,104,HZ1,127-OG-104-HZ1
380,127,OG,455,HE,127-OG-455-HE
381,127,OG,104,HZ2,127-OG-104-HZ2
382,127,OG,104,HZ3,127-OG-104-HZ3
383,127,O,104,HZ3,127-O-104-HZ3
384,127,O,104,HZ2,127-O-104-HZ2
385,127,O,104,HZ1,127-O-104-HZ1
386,127,OG,455,HH21,127-OG-455-HH21
387,128,O,131,H,128-O-131-H
388,128,O,132,H,128-O-132-H
389,129,O,297,HD22,129-O-297-HD22
390,129,O,133,H,129-O-133-H
391,129,O,297,HD21,129-O-297-HD21
392,129,O,299,HD22,129-O-299-HD22
393,130,O,134,H,130-O-134-H
394,130,O,133,H,130-O-133-H
395,131,O,134,H,131-O-134-H

396,131,O,135,H,131-O-135-H	436,141,O,144,HG,141-O-144-HG
397,132,O,135,H,132-O-135-H	437,141,O,145,H,141-O-145-H
398,132,O,136,H,132-O-136-H	438,141,O,144,H,141-O-144-H
399,133,O,136,HE,133-O-136-HE	439,142,O,146,HG,142-O-146-HG
400,133,O,136,HH21,133-O-136-HH21	440,142,O,146,H,142-O-146-H
401,133,O,136,H,133-O-136-H	441,142,O,147,H,142-O-147-H
402,133,O,136,HH11,133-O-136-HH11	442,142,O,145,H,142-O-145-H
403,133,O,137,H,133-O-137-H	443,143,O,148,H,143-O-148-H
404,134,O,138,H,134-O-138-H	444,143,O,146,H,143-O-146-H
405,135,O,139,H,135-O-139-H	445,143,O,147,H,143-O-147-H
406,135,O,138,H,135-O-138-H	446,144,O,144,HG,144-O-144-HG
407,135,O,139,HE21,135-O-139-HE21	447,145,O,162,HE2,145-O-162-HE2
408,136,O,140,H,136-O-140-H	448,145,O,146,HG,145-O-146-HG
409,136,O,140,HD22,136-O-140-HD22	449,146,O,148,H,146-O-148-H
410,137,O,141,H,137-O-141-H	450,146,OG,147,H,146-OG-147-H
411,138,O,141,H,138-O-141-H	451,146,O,159,H,146-O-159-H
412,138,O,142,H,138-O-142-H	452,146,O,158,H,146-O-158-H
413,139,OE1,143,HZ1,139-OE1-143-HZ1	453,148,O,158,H,148-O-158-H
414,139,OE1,143,HZ3,139-OE1-143-HZ3	454,149,OG,150,H,149-OG-150-H
415,139,O,139,HE21,139-O-139-HE21	455,149,OG,156,H,149-OG-156-H
416,139,OE1,136,HH11,139-OE1-136-HH11	456,149,O,158,HH,149-O-158-HH
417,139,NE2,135,HH21,139-NE2-135-HH21	457,150,OD1,158,HH,150-OD1-158-HH
418,139,OE1,135,HE,139-OE1-135-HE	458,150,OD2,156,HG,150-OD2-156-HG
419,139,OE1,135,HH21,139-OE1-135-HH21	459,150,OD2,153,HG,150-OD2-153-HG
420,139,OE1,143,HZ2,139-OE1-143-HZ2	460,150,OD1,153,H,150-OD1-153-H
421,139,O,143,H,139-O-143-H	461,150,OD1,156,HG,150-OD1-156-HG
422,139,OE1,140,HD22,139-OE1-140-HD22	462,150,OD1,153,HG,150-OD1-153-HG
423,139,O,143,HZ2,139-O-143-HZ2	463,150,OD2,154,H,150-OD2-154-H
424,139,OE1,136,HH12,139-OE1-136-HH12	464,150,O,149,HG,150-O-149-HG
425,140,OD1,139,HE21,140-OD1-139-HE21	465,150,OD2,153,H,150-OD2-153-H
426,140,OD1,136,HE,140-OD1-136-HE	466,150,OD2,152,H,150-OD2-152-H
427,140,OD1,143,HZ3,140-OD1-143-HZ3	467,150,OD2,158,HH,150-OD2-158-HH
428,140,OD1,136,HH21,140-OD1-136-HH21	468,150,O,154,HG,150-O-154-HG
429,140,OD1,288,HE2,140-OD1-288-HE2	469,150,OD1,152,H,150-OD1-152-H
430,140,OD1,136,HH11,140-OD1-136-HH11	470,150,O,152,H,150-O-152-H
431,140,O,144,HG,140-O-144-HG	471,150,O,154,H,150-O-154-H
432,140,O,144,H,140-O-144-H	472,150,O,153,H,150-O-153-H
433,140,OD1,143,HZ2,140-OD1-143-HZ2	473,150,OD1,150,H,150-OD1-150-H
434,140,OD1,143,HZ1,140-OD1-143-HZ1	474,150,O,153,HG,150-O-153-HG
435,140,O,140,HD22,140-O-140-HD22	475,151,O,154,HG,151-O-154-HG

476,151,O,153,H,151-O-153-H	516,157,O,160,H,157-O-160-H
477,152,O,153,HG,152-O-153-HG	517,157,O,156,HG,157-O-156-HG
478,152,O,154,H,152-O-154-H	518,157,O,161,H,157-O-161-H
479,153,OG,154,H,153-OG-154-H	519,158,O,162,H,158-O-162-H
480,153,OG,155,HG1,153-OG-155-HG1	520,158,O,161,H,158-O-161-H
481,153,OG,155,H,153-OG-155-H	521,159,O,162,H,159-O-162-H
482,153,O,155,H,153-O-155-H	522,159,O,163,H,159-O-163-H
483,153,O,155,HG1,153-O-155-HG1	523,160,O,164,H,160-O-164-H
484,153,O,156,H,153-O-156-H	524,160,OE1,358,HH11,160-OE1-358-HH11
485,153,OG,358,HH12,153-OG-358-HH12	525,160,OE2,156,HG,160-OE2-156-HG
486,153,OG,156,H,153-OG-156-H	526,160,O,164,HG,160-O-164-HG
487,153,O,149,HG,153-O-149-HG	527,160,OE1,356,HH12,160-OE1-356-HH12
488,153,OG,156,HG,153-OG-156-HG	528,160,OE2,164,HG,160-OE2-164-HG
489,153,O,156,HG,153-O-156-HG	529,160,OE1,356,HH22,160-OE1-356-HH22
490,154,OG,155,H,154-OG-155-H	530,160,OE1,359,H,160-OE1-359-H
491,154,OG,155,HG1,154-OG-155-HG1	531,160,OE1,157,H,160-OE1-157-H
492,154,OG,358,HH12,154-OG-358-HH12	532,160,OE1,156,HG,160-OE1-156-HG
493,154,O,155,HG1,154-O-155-HG1	533,160,OE2,359,H,160-OE2-359-H
494,154,O,154,HG,154-O-154-HG	534,160,OE2,356,HH21,160-OE2-356-HH21
495,154,O,149,HG,154-O-149-HG	535,160,OE2,356,HH22,160-OE2-356-HH22
496,154,O,156,H,154-O-156-H	536,160,OE1,356,HH21,160-OE1-356-HH21
497,155,O,360,HG,155-O-360-HG	537,160,OE2,157,H,160-OE2-157-H
498,155,O,157,H,155-O-157-H	538,160,OE2,358,HH11,160-OE2-358-HH11
499,155,OG1,358,HH12,155-OG1-358-HH12	539,160,OE2,356,HH12,160-OE2-356-HH12
500,155,O,360,H,155-O-360-H	540,160,OE2,356,HE,160-OE2-356-HE
501,155,O,155,HG1,155-O-155-HG1	541,160,OE2,356,HH11,160-OE2-356-HH11
502,155,OG1,360,HG,155-OG1-360-HG	542,160,OE1,356,HE,160-OE1-356-HE
503,155,OG1,153,HG,155-OG1-153-HG	543,161,O,165,HZ3,161-O-165-HZ3
504,155,OG1,358,HH11,155-OG1-358-HH11	544,161,OE1,165,HZ1,161-OE1-165-HZ1
505,155,O,149,HG,155-O-149-HG	545,161,O,165,HZ2,161-O-165-HZ2
506,156,O,153,HG,156-O-153-HG	546,161,OE2,165,HZ3,161-OE2-165-HZ3
507,156,OG,155,HG1,156-OG-155-HG1	547,161,OE1,165,HZ2,161-OE1-165-HZ2
508,156,OG,358,HH12,156-OG-358-HH12	548,161,OE2,165,HZ2,161-OE2-165-HZ2
509,156,OG,356,HH22,156-OG-356-HH22	549,161,OE2,156,HG,161-OE2-156-HG
510,156,OG,153,HG,156-OG-153-HG	550,161,OE2,356,HE,161-OE2-356-HE
511,156,O,150,H,156-O-150-H	551,161,OE1,356,HH22,161-OE1-356-HH22
512,156,OG,356,HH21,156-OG-356-HH21	552,161,OE1,356,HE,161-OE1-356-HE
513,156,OG,150,H,156-OG-150-H	553,161,OE2,356,HH21,161-OE2-356-HH21
514,156,O,149,HG,156-O-149-HG	554,161,OE1,358,HH12,161-OE1-358-HH12
515,156,OG,157,H,156-OG-157-H	555,161,OE1,356,HH21,161-OE1-356-HH21

556,161,OE2,153,HG,161-OE2-153-HG	596,166,OE1,196,HD22,166-OE1-196-HD22
557,161,OE1,153,HG,161-OE1-153-HG	597,166,OE2,165,HZ3,166-OE2-165-HZ3
558,161,OE2,356,HH12,161-OE2-356-HH12	598,167,O,170,H,167-O-170-H
559,161,OE2,358,HH22,161-OE2-358-HH22	599,167,O,171,H,167-O-171-H
560,161,OE2,358,HH12,161-OE2-358-HH12	600,168,O,172,H,168-O-172-H
561,161,OE2,356,HH22,161-OE2-356-HH22	601,168,OE1,477,HH12,168-OE1-477-HH12
562,161,OE1,356,HH12,161-OE1-356-HH12	602,168,OE1,172,HG,168-OE1-172-HG
563,161,O,165,HZ1,161-O-165-HZ1	603,168,OE1,356,HH21,168-OE1-356-HH21
564,161,OE1,358,HH22,161-OE1-358-HH22	604,168,O,171,H,168-O-171-H
565,161,OE1,156,HG,161-OE1-156-HG	605,168,OE1,165,HZ3,168-OE1-165-HZ3
566,161,OE2,165,HZ1,161-OE2-165-HZ1	606,168,OE1,477,HH22,168-OE1-477-HH22
567,161,O,164,H,161-O-164-H	607,168,OE1,477,HH11,168-OE1-477-HH11
568,161,O,165,H,161-O-165-H	608,168,OE2,477,HH22,168-OE2-477-HH22
569,161,OE1,356,HH11,161-OE1-356-HH11	609,168,OE2,477,HH11,168-OE2-477-HH11
570,161,OE1,165,HZ3,161-OE1-165-HZ3	610,168,OE2,356,HH11,168-OE2-356-HH11
571,162,ND1,165,HZ2,162-ND1-165-HZ2	611,168,OE2,356,HE,168-OE2-356-HE
572,162,ND1,165,HZ3,162-ND1-165-HZ3	612,168,OE2,356,HH21,168-OE2-356-HH21
573,162,O,165,H,162-O-165-H	613,168,O,172,HG,168-O-172-HG
574,162,O,166,H,162-O-166-H	614,168,OE2,477,HH12,168-OE2-477-HH12
575,162,ND1,165,HZ1,162-ND1-165-HZ1	615,169,O,172,HG,169-O-172-HG
576,163,O,167,H,163-O-167-H	616,169,O,173,H,169-O-173-H
577,163,O,166,H,163-O-166-H	617,169,O,172,H,169-O-172-H
578,164,OG,356,HH21,164-OG-356-HH21	618,169,O,173,HG1,169-O-173-HG1
579,164,O,168,H,164-O-168-H	619,170,O,173,H,170-O-173-H
580,164,OG,356,HE,164-OG-356-HE	620,170,O,174,H,170-O-174-H
581,164,O,167,H,164-O-167-H	621,171,O,175,H,171-O-175-H
582,164,OG,356,HH11,164-OG-356-HH11	622,171,O,174,H,171-O-174-H
583,165,O,168,H,165-O-168-H	623,171,O,175,HE21,171-O-175-HE21
584,165,O,169,H,165-O-169-H	624,172,O,176,H,172-O-176-H
585,166,OE2,165,HZ1,166-OE2-165-HZ1	625,172,O,175,HE21,172-O-175-HE21
586,166,OE2,165,HZ2,166-OE2-165-HZ2	626,173,O,176,H,173-O-176-H
587,166,OE2,206,HH21,166-OE2-206-HH21	627,173,OG1,209,HE2,173-OG1-209-HE2
588,166,OE1,209,HE2,166-OE1-209-HE2	628,173,O,177,H,173-O-177-H
589,166,OE1,206,HE,166-OE1-206-HE	629,174,O,178,H,174-O-178-H
590,166,O,169,H,166-O-169-H	630,174,O,177,H,174-O-177-H
591,166,O,170,H,166-O-170-H	631,175,O,179,H,175-O-179-H
592,166,OE1,193,HG,166-OE1-193-HG	632,175,O,175,HE21,175-O-175-HE21
593,166,O,193,HG,166-O-193-HG	633,175,O,178,H,175-O-178-H
594,166,OE2,206,HE,166-OE2-206-HE	634,176,OE1,209,HE2,176-OE1-209-HE2
595,166,OE1,206,HH21,166-OE1-206-HH21	635,176,O,179,H,176-O-179-H

636,176,OE1,175,HE21,176-OE1-175-HE21	676,190,O,194,H,190-O-194-H
637,176,O,180,H,176-O-180-H	677,191,O,195,H,191-O-195-H
638,176,OE2,209,HE2,176-OE2-209-HE2	678,191,O,195,HG1,191-O-195-HG1
639,176,OE2,175,HE21,176-OE2-175-HE21	679,192,O,195,H,192-O-195-H
640,177,O,182,H,177-O-182-H	680,192,O,196,HD22,192-O-196-HD22
641,177,O,180,H,177-O-180-H	681,192,O,196,H,192-O-196-H
642,178,O,180,H,178-O-180-H	682,193,OG,209,HE2,193-OG-209-HE2
643,181,O,183,H,181-O-183-H	683,193,O,196,H,193-O-196-H
644,182,O,507,HE21,182-O-507-HE21	684,193,O,197,H,193-O-197-H
645,182,O,507,HE22,182-O-507-HE22	685,194,O,198,H,194-O-198-H
646,183,ND1,507,HE21,183-ND1-507-HE21	686,194,O,197,H,194-O-197-H
647,183,ND1,183,H,183-ND1-183-H	687,195,O,199,H,195-O-199-H
648,184,O,505,H,184-O-505-H	688,196,O,200,H,196-O-200-H
649,184,O,506,H,184-O-506-H	689,196,OD1,207,H,196-OD1-207-H
650,185,O,188,H,185-O-188-H	690,197,O,201,H,197-O-201-H
651,185,OD1,188,H,185-OD1-188-H	691,197,O,200,H,197-O-200-H
652,185,OD1,188,HH11,185-OD1-188-HH11	692,198,O,202,H,198-O-202-H
653,185,OD1,187,H,185-OD1-187-H	693,198,O,201,H,198-O-201-H
654,186,O,190,H,186-O-190-H	694,199,O,204,H,199-O-204-H
655,186,O,327,HG,186-O-327-HG	695,199,O,203,H,199-O-203-H
656,186,O,189,H,186-O-189-H	696,199,O,205,H,199-O-205-H
657,187,OH,222,HD22,187-OH-222-HD22	697,200,O,204,H,200-O-204-H
658,187,OH,499,HZ1,187-OH-499-HZ1	698,201,O,281,H,201-O-281-H
659,187,O,189,H,187-O-189-H	699,202,O,281,H,202-O-281-H
660,187,O,191,H,187-O-191-H	700,202,O,282,HG1,202-O-282-HG1
661,187,OH,499,HZ3,187-OH-499-HZ3	701,202,O,282,H,202-O-282-H
662,187,O,190,H,187-O-190-H	702,203,O,205,H,203-O-205-H
663,187,OH,499,HZ2,187-OH-499-HZ2	703,203,O,205,HE,203-O-205-HE
664,188,O,192,H,188-O-192-H	704,203,O,205,HH11,203-O-205-HH11
665,188,O,219,HD21,188-O-219-HD21	705,204,O,205,HH11,204-O-205-HH11
666,189,O,192,H,189-O-192-H	706,204,O,206,H,204-O-206-H
667,189,O,209,HE2,189-O-209-HE2	707,205,O,207,HH,205-O-207-HH
668,189,O,193,H,189-O-193-H	708,206,O,205,HH21,206-O-205-HH21
669,189,OH,185,H,189-OH-185-H	709,206,O,205,HH12,206-O-205-HH12
670,189,OH,188,HH11,189-OH-188-HH11	710,207,OH,205,HE,207-OH-205-HE
671,189,OH,188,HE,189-OH-188-HE	711,207,OH,205,HH11,207-OH-205-HH11
672,189,O,193,HG,189-O-193-HG	712,207,O,196,HD21,207-O-196-HD21
673,189,OH,188,HH21,189-OH-188-HH21	713,208,OD2,210,HD22,208-OD2-210-HD22
674,190,O,193,H,190-O-193-H	714,208,OD2,211,HE2,208-OD2-211-HE2
675,190,O,193,HG,190-O-193-HG	715,208,O,211,H,208-O-211-H

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717,208,OD1,206,HH12,208-OD1-206-HH12
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783,213,OE2,257,HZ2,213-OE2-257-HZ2
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787,214,O,218,H,214-O-218-H
788,215,O,219,HD22,215-O-219-HD22
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874,226,OE2,57,HZ3,226-OE2-57-HZ3
875,226,OE2,57,HZ1,226-OE2-57-HZ1

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955,246,O,223,HD21,246-O-223-HD21

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958,247,O,250,H,247-O-250-H	998,253,OD1,221,HD22,253-OD1-221-HD22
959,247,OG,248,H,247-OG-248-H	999,253,OD1,257,HZ3,253-OD1-257-HZ3
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962,247,OG,223,HD22,247-OG-223-HD22	1002,253,OD1,257,HZ1,253-OD1-257-HZ1
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964,248,O,252,H,248-O-252-H	1004,254,O,257,H,254-O-257-H
965,248,O,251,H,248-O-251-H	1005,255,O,259,H,255-O-259-H
966,249,OD1,245,H,249-OD1-245-H	1006,255,OD1,116,H,255-OD1-116-H
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968,249,OD1,252,HZ1,249-OD1-252-HZ1	1008,256,OE1,257,HZ1,256-OE1-257-HZ1
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970,249,O,252,H,249-O-252-H	1010,256,O,260,H,256-O-260-H
971,249,OD1,252,HZ3,249-OD1-252-HZ3	1011,256,O,260,HG,256-O-260-HG
972,249,OD1,252,HZ2,249-OD1-252-HZ2	1012,256,OE1,257,HZ2,256-OE1-257-HZ2
973,250,O,254,H,250-O-254-H	1013,256,OE2,257,HZ3,256-OE2-257-HZ3
974,250,O,221,HD22,250-O-221-HD22	1014,256,OE1,252,HZ2,256-OE1-252-HZ2
975,250,O,253,H,250-O-253-H	1015,256,OE1,260,HG,256-OE1-260-HG
976,251,O,255,H,251-O-255-H	1016,256,OE2,252,HZ2,256-OE2-252-HZ2
977,251,O,255,HD22,251-O-255-HD22	1017,256,OE1,252,HZ1,256-OE1-252-HZ1
978,252,O,256,H,252-O-256-H	1018,256,OE2,252,HZ3,256-OE2-252-HZ3
979,252,O,255,H,252-O-255-H	1019,256,OE2,257,HZ1,256-OE2-257-HZ1
980,252,O,254,H,252-O-254-H	1020,256,OE2,252,HZ1,256-OE2-252-HZ1
981,253,OD1,252,HZ1,253-OD1-252-HZ1	1021,256,OE1,257,HZ3,256-OE1-257-HZ3
982,253,OD1,252,HZ3,253-OD1-252-HZ3	1022,256,OE1,252,HZ3,256-OE1-252-HZ3
983,253,O,256,H,253-O-256-H	1023,257,O,261,H,257-O-261-H
984,253,O,257,HZ1,253-O-257-HZ1	1024,257,O,260,HG,257-O-260-HG
985,253,O,257,HZ2,253-O-257-HZ2	1025,258,O,261,H,258-O-261-H
986,253,O,257,HZ3,253-O-257-HZ3	1026,258,O,262,H,258-O-262-H
987,253,OD2,249,HD21,253-OD2-249-HD21	1027,259,O,263,H,259-O-263-H
988,253,OD2,221,HD22,253-OD2-221-HD22	1028,259,O,262,H,259-O-262-H
989,253,O,257,H,253-O-257-H	1029,259,OH,263,HE21,259-OH-263-HE21
990,253,OD2,252,HZ2,253-OD2-252-HZ2	1030,259,OH,263,HE22,259-OH-263-HE22
991,253,OD2,257,HZ3,253-OD2-257-HZ3	1031,259,O,263,HE21,259-O-263-HE21
992,253,OD2,221,HD21,253-OD2-221-HD21	1032,260,O,263,HE21,260-O-263-HE21
993,253,OD1,252,HZ2,253-OD1-252-HZ2	1033,260,OG,264,HZ3,260-OG-264-HZ3
994,253,OD1,221,HD21,253-OD1-221-HD21	1034,260,O,264,HZ3,260-O-264-HZ3
995,253,OD2,252,HZ1,253-OD2-252-HZ1	1035,260,O,264,H,260-O-264-H

1036,260,OG,264,HZ1,260-OG-264-HZ1	1076,268,OE1,205,HH21,268-OE1-205-HH21
1037,260,O,264,HZ2,260-O-264-HZ2	1077,268,O,272,HG1,268-O-272-HG1
1038,260,OG,264,HZ2,260-OG-264-HZ2	1078,268,OE2,267,HZ1,268-OE2-267-HZ1
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1043,262,O,266,H,262-O-266-H	1083,268,O,272,H,268-O-272-H
1044,263,O,267,HZ2,263-O-267-HZ2	1084,268,OE1,271,HZ3,268-OE1-271-HZ3
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1047,263,O,267,HZ1,263-O-267-HZ1	1087,268,OE1,267,HZ2,268-OE1-267-HZ2
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1054,264,O,268,H,264-O-268-H	1094,268,OE1,205,HH22,268-OE1-205-HH22
1055,264,O,267,HZ1,264-O-267-HZ1	1095,269,ND1,205,HH21,269-ND1-205-HH21
1056,265,O,205,HH22,265-O-205-HH22	1096,269,O,273,H,269-O-273-H
1057,265,O,269,H,265-O-269-H	1097,269,O,279,HH12,269-O-279-HH12
1058,265,O,268,H,265-O-268-H	1098,269,O,272,HG1,269-O-272-HG1
1059,265,O,205,HE,265-O-205-HE	1099,269,ND1,205,HH22,269-ND1-205-HH22
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1061,266,O,269,H,266-O-269-H	1101,269,O,272,H,269-O-272-H
1062,267,O,271,HZ2,267-O-271-HZ2	1102,269,ND1,205,HH12,269-ND1-205-HH12
1063,267,O,271,H,267-O-271-H	1103,270,OH,267,HZ1,270-OH-267-HZ1
1064,267,O,270,H,267-O-270-H	1104,270,O,273,H,270-O-273-H
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1067,268,OE1,205,HE,268-OE1-205-HE	1107,271,O,272,HG1,271-O-272-HG1
1068,268,OE1,264,HZ1,268-OE1-264-HZ1	1108,271,O,273,H,271-O-273-H
1069,268,OE2,271,HZ1,268-OE2-271-HZ1	1109,272,O,279,HH22,272-O-279-HH22
1070,268,OE2,205,HH22,268-OE2-205-HH22	1110,272,OG1,279,HH12,272-OG1-279-HH12
1071,268,OE2,205,HH12,268-OE2-205-HH12	1111,272,OG1,205,HH22,272-OG1-205-HH22
1072,268,OE2,205,HH21,268-OE2-205-HH21	1112,272,OG1,205,HH21,272-OG1-205-HH21
1073,268,OE2,267,HZ2,268-OE2-267-HZ2	1113,272,O,279,HH12,272-O-279-HH12
1074,268,OE2,267,HZ3,268-OE2-267-HZ3	1114,272,OG1,279,HH22,272-OG1-279-HH22
1075,268,OE1,267,HZ3,268-OE1-267-HZ3	1115,272,OG1,205,HH12,272-OG1-205-HH12

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1117,273,O,275,HZ3,273-O-275-HZ3	1157,283,OD2,279,H,283-OD2-279-H
1118,274,OE2,272,HG1,274-OE2-272-HG1	1158,283,OD1,279,H,283-OD1-279-H
1119,274,OE1,275,HZ3,274-OE1-275-HZ3	1159,283,OD2,269,HE2,283-OD2-269-HE2
1120,274,OE1,277,HE2,274-OE1-277-HE2	1160,283,OD2,279,HH21,283-OD2-279-HH21
1121,274,OE2,276,H,274-OE2-276-H	1161,283,O,287,H,283-O-287-H
1122,274,OE1,275,HZ2,274-OE1-275-HZ2	1162,284,O,287,H,284-O-287-H
1123,274,O,276,H,274-O-276-H	1163,284,O,284,HG,284-O-284-HG
1124,274,OE1,275,H,274-OE1-275-H	1164,284,O,288,H,284-O-288-H
1125,274,OE1,276,H,274-OE1-276-H	1165,285,O,288,H,285-O-288-H
1126,274,OE2,279,HH12,274-OE2-279-HH12	1166,285,O,289,H,285-O-289-H
1127,274,OE2,275,HZ1,274-OE2-275-HZ1	1167,286,O,290,HE21,286-O-290-HE21
1128,274,OE2,275,H,274-OE2-275-H	1168,286,O,290,H,286-O-290-H
1129,274,OE1,275,HZ1,274-OE1-275-HZ1	1169,286,O,290,HE22,286-O-290-HE22
1130,274,OE2,279,HH11,274-OE2-279-HH11	1170,286,O,289,H,286-O-289-H
1131,274,O,277,H,274-O-277-H	1171,287,OE1,275,HZ2,287-OE1-275-HZ2
1132,274,OE2,273,H,274-OE2-273-H	1172,287,OE1,290,HE22,287-OE1-290-HE22
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1137,277,ND1,279,HE,277-ND1-279-HE	1177,287,O,290,H,287-O-290-H
1138,277,ND1,279,HH11,277-ND1-279-HH11	1178,287,OE2,275,HZ3,287-OE2-275-HZ3
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1144,280,OD1,282,H,280-OD1-282-H	1184,287,OE2,275,HZ1,287-OE2-275-HZ1
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1146,280,OD2,205,HH12,280-OD2-205-HH12	1186,288,O,291,H,288-O-291-H
1147,280,O,284,HG,280-O-284-HG	1187,289,O,293,HE21,289-O-293-HE21
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1154,283,OD2,279,HE,283-OD2-279-HE	1194,290,OE1,293,HE21,290-OE1-293-HE21
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1275,297,OD1,136,HH11,297-OD1-136-HH11

1276,297,O,136,HH21,297-O-136-HH21	1316,303,OG,306,HZ3,303-OG-306-HZ3
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1278,297,OD1,136,HE,297-OD1-136-HE	1318,304,OD1,293,HE22,304-OD1-293-HE22
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1284,299,OD1,301,H,299-OD1-301-H	1324,304,OD2,304,H,304-OD2-304-H
1285,299,OD1,302,H,299-OD1-302-H	1325,304,OD1,292,HZ1,304-OD1-292-HZ1
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1288,299,OD1,300,H,299-OD1-300-H	1328,304,OD1,304,H,304-OD1-304-H
1289,299,O,292,HZ3,299-O-292-HZ3	1329,304,OD1,305,H,304-OD1-305-H
1290,299,ND2,301,H,299-ND2-301-H	1330,304,O,308,H,304-O-308-H
1291,300,O,302,H,300-O-302-H	1331,304,OD1,292,HZ3,304-OD1-292-HZ3
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1294,300,O,292,HZ1,300-O-292-HZ1	1334,305,OE1,263,HE22,305-OE1-263-HE22
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1297,301,O,301,HE21,301-O-301-HE21	1337,305,OE1,119,HE21,305-OE1-119-HE21
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1299,301,OE1,299,HD22,301-OE1-299-HD22	1339,305,O,309,H,305-O-309-H
1300,301,OE1,302,H,301-OE1-302-H	1340,305,O,308,H,305-O-308-H
1301,301,O,306,HZ2,301-O-306-HZ2	1341,305,OE1,305,H,305-OE1-305-H
1302,301,OE1,292,HZ3,301-OE1-292-HZ3	1342,305,O,309,HD22,305-O-309-HD22
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1305,301,O,303,H,301-O-303-H	1345,305,OE1,306,HZ2,305-OE1-306-HZ2
1306,302,O,292,HZ2,302-O-292-HZ2	1346,305,OE2,306,H,305-OE2-306-H
1307,302,O,292,HZ3,302-O-292-HZ3	1347,305,OE2,119,HE21,305-OE2-119-HE21
1308,302,O,292,HZ1,302-O-292-HZ1	1348,305,OE2,119,HE22,305-OE2-119-HE22
1309,303,O,306,H,303-O-306-H	1349,305,OE2,309,HD21,305-OE2-309-HD21
1310,303,OG,306,HZ2,303-OG-306-HZ2	1350,305,OE2,263,HE22,305-OE2-263-HE22
1311,303,O,303,HG,303-O-303-HG	1351,305,OE1,309,HD22,305-OE1-309-HD22
1312,303,O,307,H,303-O-307-H	1352,305,OE1,303,HG,305-OE1-303-HG
1313,303,OG,306,H,303-OG-306-H	1353,305,OE2,306,HZ3,305-OE2-306-HZ3
1314,303,OG,305,H,303-OG-305-H	1354,305,OE1,117,HD22,305-OE1-117-HD22
1315,303,O,292,HZ3,303-O-292-HZ3	1355,305,OE2,117,HD22,305-OE2-117-HD22

1356,305,OE1,306,H,305-OE1-306-H	1396,313,OD1,122,H,313-OD1-122-H
1357,305,OE2,306,HZ1,305-OE2-306-HZ1	1397,313,O,317,H,313-O-317-H
1358,305,OE2,303,HG,305-OE2-303-HG	1398,313,OD2,120,HG,313-OD2-120-HG
1359,305,OE1,306,HZ1,305-OE1-306-HZ1	1399,313,O,316,H,313-O-316-H
1360,305,OE1,309,HD21,305-OE1-309-HD21	1400,314,O,317,H,314-O-317-H
1361,305,OE2,259,HH,305-OE2-259-HH	1401,314,O,318,H,314-O-318-H
1362,305,OE1,119,HE22,305-OE1-119-HE22	1402,315,O,319,H,315-O-319-H
1363,305,OE2,305,H,305-OE2-305-H	1403,316,O,320,H,316-O-320-H
1364,305,OE2,117,HD21,305-OE2-117-HD21	1404,317,O,320,H,317-O-320-H
1365,305,OE1,306,HZ3,305-OE1-306-HZ3	1405,317,O,321,HG1,317-O-321-HG1
1366,305,OE1,259,HH,305-OE1-259-HH	1406,317,O,321,H,317-O-321-H
1367,306,O,134,HE,306-O-134-HE	1407,318,O,323,HG1,318-O-323-HG1
1368,306,O,134,HH21,306-O-134-HH21	1408,318,O,322,H,318-O-322-H
1369,307,O,310,H,307-O-310-H	1409,318,O,321,H,318-O-321-H
1370,308,O,310,H,308-O-310-H	1410,318,O,321,HG1,318-O-321-HG1
1371,308,O,311,H,308-O-311-H	1411,319,O,323,H,319-O-323-H
1372,309,OD1,117,HD22,309-OD1-117-HD22	1412,319,O,323,HG1,319-O-323-HG1
1373,309,OD1,119,HE21,309-OD1-119-HE21	1413,320,OD2,187,HH,320-OD2-187-HH
1374,309,O,312,H,309-O-312-H	1414,320,OD1,499,HZ3,320-OD1-499-HZ3
1375,309,OD1,263,HE21,309-OD1-263-HE21	1415,320,O,324,HG1,320-O-324-HG1
1376,309,OD1,134,HH21,309-OD1-134-HH21	1416,320,OD1,499,HZ1,320-OD1-499-HZ1
1377,309,ND2,117,HD22,309-ND2-117-HD22	1417,320,OD2,222,HD22,320-OD2-222-HD22
1378,309,O,313,H,309-O-313-H	1418,320,OD1,187,HH,320-OD1-187-HH
1379,309,OD1,134,HH22,309-OD1-134-HH22	1419,320,OD1,497,HG1,320-OD1-497-HG1
1380,310,O,314,H,310-O-314-H	1420,320,O,324,H,320-O-324-H
1381,310,O,313,H,310-O-313-H	1421,320,OD2,499,HZ3,320-OD2-499-HZ3
1382,311,O,314,H,311-O-314-H	1422,320,OD2,499,HZ2,320-OD2-499-HZ2
1383,311,O,315,H,311-O-315-H	1423,320,OD2,324,HG1,320-OD2-324-HG1
1384,312,O,316,H,312-O-316-H	1424,320,OD1,222,HD22,320-OD1-222-HD22
1385,313,OD2,121,H,313-OD2-121-H	1425,320,OD2,499,HZ1,320-OD2-499-HZ1
1386,313,O,516,H10,313-O-516-H10	1426,320,OD1,499,HZ2,320-OD1-499-HZ2
1387,313,OD2,122,HG,313-OD2-122-HG	1427,320,OD1,324,HG1,320-OD1-324-HG1
1388,313,OD1,116,HG,313-OD1-116-HG	1428,320,OD2,497,HG1,320-OD2-497-HG1
1389,313,OD2,516,H10,313-OD2-516-H10	1429,321,O,325,H,321-O-325-H
1390,313,OD2,116,HG,313-OD2-116-HG	1430,321,O,324,H,321-O-324-H
1391,313,OD1,121,H,313-OD1-121-H	1431,321,OG1,322,H,321-OG1-322-H
1392,313,OD1,516,H10,313-OD1-516-H10	1432,322,O,326,H,322-O-326-H
1393,313,OD1,120,HG,313-OD1-120-HG	1433,323,O,327,H,323-O-327-H
1394,313,OD2,122,H,313-OD2-122-H	1434,323,O,327,HG,323-O-327-HG
1395,313,OD1,122,HG,313-OD1-122-HG	1435,324,OG1,499,HZ2,324-OG1-499-HZ2

1436,324,OG1,499,HZ1,324-OG1-499-HZ1
1437,324,O,327,HG,324-O-327-HG
1438,324,OG1,497,HG1,324-OG1-497-HG1
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1441,324,OG1,499,HZ3,324-OG1-499-HZ3
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1443,325,O,329,H,325-O-329-H
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1451,328,O,332,H,328-O-332-H
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1499,345,OE2,342,HZ2,345-OE2-342-HZ2
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1514,346,OE2,342,HZ2,346-OE2-342-HZ2
1515,346,OE2,367,H,346-OE2-367-H

1516,346,OE1,349,HG1,346-OE1-349-HG1	1556,361,OD1,355,HH12,361-OD1-355-HH12
1517,346,OE1,342,HZ2,346-OE1-342-HZ2	1557,361,OD1,355,HH22,361-OD1-355-HH22
1518,346,OE1,367,H,346-OE1-367-H	1558,361,OD2,355,HH22,361-OD2-355-HH22
1519,346,OE2,342,HZ1,346-OE2-342-HZ1	1559,361,OD1,364,HE2,361-OD1-364-HE2
1520,346,OE2,342,HZ3,346-OE2-342-HZ3	1560,361,O,365,H,361-O-365-H
1521,346,O,349,H,346-O-349-H	1561,361,OD2,358,H,361-OD2-358-H
1522,346,OE1,342,HZ3,346-OE1-342-HZ3	1562,361,OD2,358,HH21,361-OD2-358-HH21
1523,346,O,350,H,346-O-350-H	1563,361,OD1,360,HG,361-OD1-360-HG
1524,347,O,352,H,347-O-352-H	1564,362,O,365,H,362-O-365-H
1525,347,O,351,H,347-O-351-H	1565,362,NH1,465,HE1,362-NH1-465-HE1
1526,347,O,350,H,347-O-350-H	1566,362,NH2,464,HH21,362-NH2-464-HH21
1527,348,OD2,353,HH21,348-OD2-353-HH21	1567,364,ND1,363,HG,364-ND1-363-HG
1528,348,OD1,511,HH12,348-OD1-511-HH12	1568,365,O,369,H,365-O-369-H
1529,348,OD1,511,HH22,348-OD1-511-HH22	1569,365,O,368,H,365-O-368-H
1530,348,OD2,511,HH22,348-OD2-511-HH22	1570,366,O,369,H,366-O-369-H
1531,348,OD2,511,HH12,348-OD2-511-HH12	1571,366,O,370,H,366-O-370-H
1532,348,OD2,353,HE,348-OD2-353-HE	1572,367,OH,342,HZ1,367-OH-342-HZ1
1533,348,OD1,353,HH21,348-OD1-353-HH21	1573,367,O,371,H,367-O-371-H
1534,348,OD1,353,HE,348-OD1-353-HE	1574,368,O,372,H,368-O-372-H
1535,350,O,355,HH21,350-O-355-HH21	1575,369,OE1,362,HH22,369-OE1-362-HH22
1536,351,O,354,HG,351-O-354-HG	1576,369,OE2,362,HH12,369-OE2-362-HH12
1537,352,O,476,HE21,352-O-476-HE21	1577,369,OE1,362,HE,369-OE1-362-HE
1538,353,O,476,HE22,353-O-476-HE22	1578,369,OE1,464,HH21,369-OE1-464-HH21
1539,354,OG,355,H,354-OG-355-H	1579,369,OE2,362,HH22,369-OE2-362-HH22
1540,355,O,476,HE22,355-O-476-HE22	1580,369,O,373,H,369-O-373-H
1541,356,O,355,HH11,356-O-355-HH11	1581,369,O,372,H,369-O-372-H
1542,357,O,356,HH11,357-O-356-HH11	1582,369,OE2,362,HH21,369-OE2-362-HH21
1543,358,O,361,H,358-O-361-H	1583,369,OE1,362,HH21,369-OE1-362-HH21
1544,359,O,362,H,359-O-362-H	1584,369,OE1,464,HE,369-OE1-464-HE
1545,359,O,362,HH11,359-O-362-HH11	1585,369,OE1,362,HH12,369-OE1-362-HH12
1546,360,OG,155,HG1,360-OG-155-HG1	1586,369,OE2,465,HE1,369-OE2-465-HE1
1547,360,OG,358,HH11,360-OG-358-HH11	1587,369,OE2,464,HH21,369-OE2-464-HH21
1548,360,O,363,H,360-O-363-H	1588,369,OE2,362,HE,369-OE2-362-HE
1549,360,OG,358,HE,360-OG-358-HE	1589,369,OE1,465,HE1,369-OE1-465-HE1
1550,360,O,363,HG,360-O-363-HG	1590,369,OE2,464,HE,369-OE2-464-HE
1551,361,OD1,358,HE,361-OD1-358-HE	1591,370,O,373,H,370-O-373-H
1552,361,OD1,358,HH21,361-OD1-358-HH21	1592,370,O,374,H,370-O-374-H
1553,361,OD2,355,HH12,361-OD2-355-HH12	1593,371,O,375,HG1,371-O-375-HG1
1554,361,OD2,358,HE,361-OD2-358-HE	1594,371,O,375,H,371-O-375-H
1555,361,O,364,H,361-O-364-H	1595,372,O,376,H,372-O-376-H

1596,373,O,377,H,373-O-377-H	1636,388,O,407,H,388-O-407-H
1597,374,OE2,431,HH12,374-OE2-431-HH12	1637,389,O,105,H,389-O-105-H
1598,374,OE1,431,HH22,374-OE1-431-HH22	1638,390,OG1,404,H,390-OG1-404-H
1599,374,OE2,431,HH11,374-OE2-431-HH11	1639,390,OG1,405,H,390-OG1-405-H
1600,374,OE2,377,HE,374-OE2-377-HE	1640,390,O,404,H,390-O-404-H
1601,374,OE2,431,HH22,374-OE2-431-HH22	1641,391,OG1,104,HZ1,391-OG1-104-HZ1
1602,374,OE1,428,H,374-OE1-428-H	1642,391,OG1,104,HZ2,391-OG1-104-HZ2
1603,374,OE2,377,HH21,374-OE2-377-HH21	1643,391,O,403,HZ3,391-O-403-HZ3
1604,374,OE1,431,HH11,374-OE1-431-HH11	1644,391,OG1,105,H,391-OG1-105-H
1605,374,OE1,377,HH21,374-OE1-377-HH21	1645,391,O,403,HZ2,391-O-403-HZ2
1606,374,OE2,428,H,374-OE2-428-H	1646,391,OG1,104,HZ3,391-OG1-104-HZ3
1607,374,OE1,377,HE,374-OE1-377-HE	1647,391,O,403,HZ1,391-O-403-HZ1
1608,374,OE1,431,HH12,374-OE1-431-HH12	1648,393,OD1,403,HZ3,393-OD1-403-HZ3
1609,374,O,378,H,374-O-378-H	1649,393,OD1,403,HZ1,393-OD1-403-HZ1
1610,375,O,379,HG,375-O-379-HG	1650,393,OD1,400,HH,393-OD1-400-HH
1611,375,O,379,H,375-O-379-H	1651,393,OD2,403,H,393-OD2-403-H
1612,375,OG1,329,HG,375-OG1-329-HG	1652,393,OD1,393,H,393-OD1-393-H
1613,376,O,380,H,376-O-380-H	1653,393,OD1,392,HH21,393-OD1-392-HH21
1614,377,O,416,HE2,377-O-416-HE2	1654,393,OD2,403,HZ3,393-OD2-403-HZ3
1615,377,O,380,HG,377-O-380-HG	1655,393,OD1,403,HZ2,393-OD1-403-HZ2
1616,378,ND1,377,HH22,378-ND1-377-HH22	1656,393,OD2,400,HH,393-OD2-400-HH
1617,378,O,416,HE2,378-O-416-HE2	1657,393,OD2,403,HZ1,393-OD2-403-HZ1
1618,378,ND1,332,HH,378-ND1-332-HH	1658,393,OD2,393,H,393-OD2-393-H
1619,379,OG,381,H,379-OG-381-H	1659,393,OD1,403,H,393-OD1-403-H
1620,380,OG,415,HD22,380-OG-415-HD22	1660,393,OD2,403,HZ2,393-OD2-403-HZ2
1621,380,O,380,HG,380-O-380-HG	1661,394,OG1,395,H,394-OG1-395-H
1622,380,O,382,H,380-O-382-H	1662,394,OG1,99,HE22,394-OG1-99-HE22
1623,381,O,497,HG1,381-O-497-HG1	1663,394,OG1,99,HE21,394-OG1-99-HE21
1624,381,O,498,H,381-O-498-H	1664,394,O,395,HG,394-O-395-HG
1625,382,O,411,HE21,382-O-411-HE21	1665,394,O,401,H,394-O-401-H
1626,383,O,412,H,383-O-412-H	1666,395,O,99,HE22,395-O-99-HE22
1627,383,O,411,H,383-O-411-H	1667,396,O,399,H,396-O-399-H
1628,385,OG1,409,H,385-OG1-409-H	1668,397,O,399,H,397-O-399-H
1629,385,O,230,HG,385-O-230-HG	1669,397,O,38,HZ3,397-O-38-HZ3
1630,386,O,106,HH12,386-O-106-HH12	1670,397,O,38,HZ2,397-O-38-HZ2
1631,386,O,106,HH11,386-O-106-HH11	1671,397,O,38,HZ1,397-O-38-HZ1
1632,386,O,385,HG1,386-O-385-HG1	1672,398,O,38,HZ3,398-O-38-HZ3
1633,387,O,106,HH11,387-O-106-HH11	1673,398,O,38,HZ2,398-O-38-HZ2
1634,388,NE2,385,HG1,388-NE2-385-HG1	1674,398,O,38,H,398-O-38-H
1635,388,O,389,HG,388-O-389-HG	1675,398,O,38,HZ1,398-O-38-HZ1

1676,399,O,396,H,399-O-396-H	1716,414,O,417,H,414-O-417-H
1677,399,O,395,HG,399-O-395-HG	1717,414,O,421,HE1,414-O-421-HE1
1678,400,O,39,HD22,400-O-39-HD22	1718,415,O,377,HH11,415-O-377-HH11
1679,401,O,394,H,401-O-394-H	1719,415,OD1,448,H,415-OD1-448-H
1680,402,O,405,H,402-O-405-H	1720,416,O,418,HE21,416-O-418-HE21
1681,402,O,390,HG1,402-O-390-HG1	1721,416,ND1,377,HH12,416-ND1-377-HH12
1682,403,O,405,H,403-O-405-H	1722,417,O,420,H,417-O-420-H
1683,403,O,405,HE,403-O-405-HE	1723,417,OD2,413,HE21,417-OD2-413-HE21
1684,403,O,405,HH11,403-O-405-HH11	1724,417,OD1,413,HE21,417-OD1-413-HE21
1685,404,O,405,HH11,404-O-405-HH11	1725,417,OD2,419,HZ2,417-OD2-419-HZ2
1686,404,O,389,HG,404-O-389-HG	1726,417,OD1,68,HE21,417-OD1-68-HE21
1687,405,O,390,H,405-O-390-H	1727,417,OD1,419,H,417-OD1-419-H
1688,405,O,389,HG,405-O-389-HG	1728,417,OD2,68,HE22,417-OD2-68-HE22
1689,406,O,84,H,406-O-84-H	1729,417,OD1,419,HZ3,417-OD1-419-HZ3
1690,407,O,388,H,407-O-388-H	1730,417,OD1,419,HZ2,417-OD1-419-HZ2
1691,408,O,86,H,408-O-86-H	1731,417,OD2,419,H,417-OD2-419-H
1692,409,O,385,H,409-O-385-H	1732,417,OD2,418,HE21,417-OD2-418-HE21
1693,409,O,411,H,409-O-411-H	1733,417,OD2,419,HZ3,417-OD2-419-HZ3
1694,410,O,413,H,410-O-413-H	1734,417,OD1,420,H,417-OD1-420-H
1695,410,OD1,413,H,410-OD1-413-H	1735,417,OD1,419,HZ1,417-OD1-419-HZ1
1696,410,OD1,412,H,410-OD1-412-H	1736,417,OD2,418,H,417-OD2-418-H
1697,410,OD1,411,H,410-OD1-411-H	1737,417,O,421,H,417-O-421-H
1698,410,O,87,HG,410-O-87-HG	1738,417,OD2,420,H,417-OD2-420-H
1699,411,O,415,H,411-O-415-H	1739,417,OD1,413,HE22,417-OD1-413-HE22
1700,411,O,414,H,411-O-414-H	1740,417,OD1,68,HE22,417-OD1-68-HE22
1701,411,O,415,HD22,411-O-415-HD22	1741,417,OD2,419,HZ1,417-OD2-419-HZ1
1702,411,OE1,451,H,411-OE1-451-H	1742,417,OD2,413,HE22,417-OD2-413-HE22
1703,412,O,415,H,412-O-415-H	1743,418,OE1,419,HZ3,418-OE1-419-HZ3
1704,412,O,416,H,412-O-416-H	1744,418,OE1,419,HZ2,418-OE1-419-HZ2
1705,413,NE2,68,HE22,413-NE2-68-HE22	1745,418,OE1,418,H,418-OE1-418-H
1706,413,NE2,87,HG,413-NE2-87-HG	1746,418,O,418,HE21,418-O-418-HE21
1707,413,OE1,67,HG,413-OE1-67-HG	1747,418,OE1,419,HZ1,418-OE1-419-HZ1
1708,413,OE1,68,HE21,413-OE1-68-HE21	1748,418,OE1,68,HE22,418-OE1-68-HE22
1709,413,O,416,H,413-O-416-H	1749,418,O,421,H,418-O-421-H
1710,413,NE2,68,HE21,413-NE2-68-HE21	1750,420,O,446,HZ2,420-O-446-HZ2
1711,413,OE1,68,HE22,413-OE1-68-HE22	1751,420,O,446,HZ1,420-O-446-HZ1
1712,413,OE1,87,HG,413-OE1-87-HG	1752,420,O,446,HZ3,420-O-446-HZ3
1713,413,O,417,H,413-O-417-H	1753,422,O,431,HE,422-O-431-HE
1714,413,O,413,HE21,413-O-413-HE21	1754,422,O,431,HH21,422-O-431-HH21
1715,413,OE1,410,HD22,413-OE1-410-HD22	1755,422,O,431,HH22,422-O-431-HH22

1756,423,O,431,HH22,423-O-431-HH22	1796,430,OE2,342,HZ1,430-OE2-342-HZ1
1757,423,OD1,425,HG,423-OD1-425-HG	1797,430,OE1,342,HZ1,430-OE1-342-HZ1
1758,423,OD1,418,HE22,423-OD1-418-HE22	1798,430,OE1,342,HZ2,430-OE1-342-HZ2
1759,423,O,431,HH21,423-O-431-HH21	1799,431,O,433,H,431-O-433-H
1760,423,O,423,HD22,423-O-423-HD22	1800,432,O,440,H,432-O-440-H
1761,423,O,426,H,423-O-426-H	1801,434,OG1,438,H,434-OG1-438-H
1762,423,OD1,431,HH21,423-OD1-431-HH21	1802,434,OG1,437,H,434-OG1-437-H
1763,424,O,377,HH22,424-O-377-HH22	1803,434,OG1,436,H,434-OG1-436-H
1764,424,O,426,H,424-O-426-H	1804,434,O,437,H,434-O-437-H
1765,424,O,377,HH12,424-O-377-HH12	1805,435,O,437,H,435-O-437-H
1766,425,O,378,HE2,425-O-378-HE2	1806,436,OD2,438,H,436-OD2-438-H
1767,425,O,425,HG,425-O-425-HG	1807,436,OD2,436,H,436-OD2-436-H
1768,426,O,431,HH22,426-O-431-HH22	1808,436,OD1,434,HG1,436-OD1-434-HG1
1769,426,OE2,425,HG,426-OE2-425-HG	1809,436,OD1,436,H,436-OD1-436-H
1770,426,OE1,427,H,426-OE1-427-H	1810,436,O,438,H,436-O-438-H
1771,426,OE1,425,HG,426-OE1-425-HG	1811,436,OD1,438,H,436-OD1-438-H
1772,426,OE1,423,HD22,426-OE1-423-HD22	1812,436,OD2,434,HG1,436-OD2-434-HG1
1773,426,OE2,423,HD22,426-OE2-423-HD22	1813,438,O,434,HG1,438-O-434-HG1
1774,426,OE2,427,H,426-OE2-427-H	1814,438,O,434,H,438-O-434-H
1775,426,OE1,423,HD21,426-OE1-423-HD21	1815,439,O,441,HZ1,439-O-441-HZ1
1776,426,OE2,423,HD21,426-OE2-423-HD21	1816,439,O,441,H,439-O-441-H
1777,426,O,431,HH12,426-O-431-HH12	1817,439,O,441,HZ3,439-O-441-HZ3
1778,427,O,338,HH21,427-O-338-HH21	1818,439,O,441,HZ2,439-O-441-HZ2
1779,428,O,431,H,428-O-431-H	1819,440,OD1,442,H,440-OD1-442-H
1780,428,O,431,HH11,428-O-431-HH11	1820,440,O,443,H,440-O-443-H
1781,429,O,432,H,429-O-432-H	1821,440,OD2,442,H,440-OD2-442-H
1782,429,O,433,H,429-O-433-H	1822,440,O,442,H,440-O-442-H
1783,430,OE2,338,HH22,430-OE2-338-HH22	1823,440,O,444,H,440-O-444-H
1784,430,OE2,430,H,430-OE2-430-H	1824,440,O,444,HG,440-O-444-HG
1785,430,OE2,338,HH12,430-OE2-338-HH12	1825,440,OD2,443,H,440-OD2-443-H
1786,430,OE1,338,HH12,430-OE1-338-HH12	1826,440,OD1,443,H,440-OD1-443-H
1787,430,OE1,338,HH21,430-OE1-338-HH21	1827,441,O,445,H,441-O-445-H
1788,430,OE2,342,HZ2,430-OE2-342-HZ2	1828,441,O,441,HZ3,441-O-441-HZ3
1789,430,OE1,338,HH22,430-OE1-338-HH22	1829,441,O,444,HG,441-O-444-HG
1790,430,OE2,342,HZ3,430-OE2-342-HZ3	1830,442,O,446,HZ1,442-O-446-HZ1
1791,430,OE1,367,HH,430-OE1-367-HH	1831,442,O,446,HZ3,442-O-446-HZ3
1792,430,OE1,342,HZ3,430-OE1-342-HZ3	1832,442,O,446,HZ2,442-O-446-HZ2
1793,430,OE1,430,H,430-OE1-430-H	1833,442,O,446,H,442-O-446-H
1794,430,O,433,H,430-O-433-H	1834,442,O,445,H,442-O-445-H
1795,430,OE2,367,HH,430-OE2-367-HH	1835,443,O,446,H,443-O-446-H

1836,443,O,447,H,443-O-447-H
1837,444,OG,464,HH22,444-OG-464-HH22
1838,444,O,464,HH22,444-O-464-HH22
1839,444,OG,464,HH12,444-OG-464-HH12
1840,444,O,447,H,444-O-447-H
1841,444,O,444,HG,444-O-444-HG
1842,445,OE2,444,HG,445-OE2-444-HG
1843,445,OE2,93,HH21,445-OE2-93-HH21
1844,445,OE1,446,HZ1,445-OE1-446-HZ1
1845,445,OE1,464,HH22,445-OE1-464-HH22
1846,445,OE1,444,HG,445-OE1-444-HG
1847,445,OE1,93,HH21,445-OE1-93-HH21
1848,445,OE1,441,HZ2,445-OE1-441-HZ2
1849,445,OE2,464,HH22,445-OE2-464-HH22
1850,445,OE1,441,HZ3,445-OE1-441-HZ3
1851,445,OE2,446,HZ2,445-OE2-446-HZ2
1852,445,OE2,464,HH12,445-OE2-464-HH12
1853,445,OE1,456,HZ2,445-OE1-456-HZ2
1854,445,OE1,456,HZ3,445-OE1-456-HZ3
1855,445,OE2,446,HZ3,445-OE2-446-HZ3
1856,445,OE2,456,HZ2,445-OE2-456-HZ2
1857,445,OE1,456,HZ1,445-OE1-456-HZ1
1858,445,OE2,456,HZ3,445-OE2-456-HZ3
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1860,445,OE1,93,HH22,445-OE1-93-HH22
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1870,445,O,93,HH21,445-O-93-HH21
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1873,448,O,415,HD21,448-O-415-HD21
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1875,450,O,457,H,450-O-457-H
1876,451,O,456,HZ1,451-O-456-HZ1
1877,451,O,456,HZ3,451-O-456-HZ3
1878,451,O,456,HZ2,451-O-456-HZ2
1879,452,O,455,H,452-O-455-H
1880,452,O,456,H,452-O-456-H
1881,453,O,456,H,453-O-456-H
1882,453,O,455,H,453-O-455-H
1883,454,O,135,HH21,454-O-135-HH21
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1885,454,O,135,HH12,454-O-135-HH12
1886,455,O,452,H,455-O-452-H
1887,455,O,135,HH12,455-O-135-HH12
1888,456,O,135,HH22,456-O-135-HH22
1889,456,O,135,HH12,456-O-135-HH12
1890,457,O,135,HH22,457-O-135-HH22
1891,457,O,456,HZ2,457-O-456-HZ2
1892,457,O,460,H,457-O-460-H
1893,458,O,460,H,458-O-460-H
1894,458,O,139,HE21,458-O-139-HE21
1895,458,O,139,HE22,458-O-139-HE22
1896,459,O,463,H,459-O-463-H
1897,459,O,462,H,459-O-462-H
1898,459,O,461,H,459-O-461-H
1899,460,OE2,464,HH21,460-OE2-464-HH21
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1901,460,OE2,461,HG1,460-OE2-461-HG1
1902,460,OE2,456,HZ3,460-OE2-456-HZ3
1903,460,OE2,456,HZ2,460-OE2-456-HZ2
1904,460,OE1,461,H,460-OE1-461-H
1905,460,O,464,HE,460-O-464-HE
1906,460,OE2,456,HZ1,460-OE2-456-HZ1
1907,460,OE1,464,HH21,460-OE1-464-HH21
1908,460,OE2,464,HH12,460-OE2-464-HH12
1909,460,O,464,H,460-O-464-H
1910,460,O,464,HH11,460-O-464-HH11
1911,460,OE1,464,HH22,460-OE1-464-HH22
1912,460,OE1,456,HZ3,460-OE1-456-HZ3
1913,460,OE2,461,H,460-OE2-461-H
1914,460,OE2,464,HH22,460-OE2-464-HH22
1915,460,O,464,HH21,460-O-464-HH21

1916,460,OE1,143,HZ3,460-OE1-143-HZ3	1956,475,O,511,HH21,475-O-511-HH21
1917,460,O,464,HH12,460-O-464-HH12	1957,476,O,511,HE,476-O-511-HE
1918,460,OE1,456,HZ2,460-OE1-456-HZ2	1958,476,OE1,477,HH22,476-OE1-477-HH22
1919,460,OE1,464,HH12,460-OE1-464-HH12	1959,476,O,353,HH21,476-O-353-HH21
1920,460,OE1,456,HZ1,460-OE1-456-HZ1	1960,476,O,511,HH21,476-O-511-HH21
1921,460,OE2,143,HZ2,460-OE2-143-HZ2	1961,476,OE1,477,HH21,476-OE1-477-HH21
1922,460,OE1,464,HH11,460-OE1-464-HH11	1962,476,O,353,HE,476-O-353-HE
1923,461,O,464,H,461-O-464-H	1963,476,OE1,477,HE,476-OE1-477-HE
1924,461,O,464,HE,461-O-464-HE	1964,476,OE1,477,HH12,476-OE1-477-HH12
1925,461,O,465,H,461-O-465-H	1965,477,O,511,H,477-O-511-H
1926,461,OG1,143,HZ1,461-OG1-143-HZ1	1966,478,O,344,HE21,478-O-344-HE21
1927,461,OG1,464,HH21,461-OG1-464-HH21	1967,478,O,344,HE22,478-O-344-HE22
1928,461,OG1,143,HZ3,461-OG1-143-HZ3	1968,479,OE2,512,HG,479-OE2-512-HG
1929,462,O,464,H,462-O-464-H	1969,479,OE1,341,HH11,479-OE1-341-HH11
1930,462,O,465,H,462-O-465-H	1970,479,OE1,512,HG,479-OE1-512-HG
1931,462,O,466,H,462-O-466-H	1971,479,OE1,512,H,479-OE1-512-H
1932,463,O,467,H,463-O-467-H	1972,479,OE1,341,HE,479-OE1-341-HE
1933,464,O,468,H,464-O-468-H	1973,479,OE2,509,HE21,479-OE2-509-HE21
1934,464,NH2,465,HE1,464-NH2-465-HE1	1974,479,OE1,509,HE21,479-OE1-509-HE21
1935,465,O,468,H,465-O-468-H	1975,479,OE2,341,HH11,479-OE2-341-HH11
1936,465,O,469,H,465-O-469-H	1976,479,O,509,H,479-O-509-H
1937,466,O,469,H,466-O-469-H	1977,479,OE2,512,H,479-OE2-512-H
1938,466,O,470,H,466-O-470-H	1978,479,OE1,341,HH21,479-OE1-341-HH21
1939,467,O,471,H,467-O-471-H	1979,479,OE2,341,HH21,479-OE2-341-HH21
1940,468,O,472,H,468-O-472-H	1980,479,OE2,344,HE22,479-OE2-344-HE22
1941,469,O,473,H,469-O-473-H	1981,479,OE2,341,HH12,479-OE2-341-HH12
1942,470,O,473,H,470-O-473-H	1982,479,OE1,341,HH22,479-OE1-341-HH22
1943,470,O,474,H,470-O-474-H	1983,479,OE2,341,HH22,479-OE2-341-HH22
1944,471,O,475,H,471-O-475-H	1984,479,OE1,341,HH12,479-OE1-341-HH12
1945,471,O,474,H,471-O-474-H	1985,480,O,340,HE22,480-O-340-HE22
1946,472,O,476,H,472-O-476-H	1986,481,O,507,H,481-O-507-H
1947,473,O,477,H,473-O-477-H	1987,481,O,507,HE21,481-O-507-HE21
1948,473,O,477,HH11,473-O-477-HH11	1988,481,OG,509,HE22,481-OG-509-HE22
1949,473,O,477,HE,473-O-477-HE	1989,481,OG,507,HE21,481-OG-507-HE21
1950,473,O,477,HH21,473-O-477-HH21	1990,481,OG,482,H,481-OG-482-H
1951,473,O,476,H,473-O-476-H	1991,482,O,487,HZ3,482-O-487-HZ3
1952,474,O,477,H,474-O-477-H	1992,482,O,481,HG,482-O-481-HG
1953,474,O,478,H,474-O-478-H	1993,482,O,507,HE21,482-O-507-HE21
1954,475,O,344,HE21,475-O-344-HE21	1994,483,O,486,H,483-O-486-H
1955,475,O,511,HE,475-O-511-HE	1995,484,O,487,HZ3,484-O-487-HZ3

1996,484,O,487,HZ2,484-O-487-HZ2	2036,498,O,328,HE1,498-O-328-HE1
1997,484,O,487,HZ1,484-O-487-HZ1	2037,499,O,493,H,499-O-493-H
1998,484,O,486,H,484-O-486-H	2038,500,NE2,327,HG,500-NE2-327-HG
1999,485,O,487,HZ3,485-O-487-HZ3	2039,500,O,500,HD1,500-O-500-HD1
2000,485,O,487,H,485-O-487-H	2040,500,O,502,H,500-O-502-H
2001,485,O,487,HZ1,485-O-487-HZ1	2041,501,O,500,HD1,501-O-500-HD1
2002,485,O,487,HZ2,485-O-487-HZ2	2042,501,O,185,HD21,501-O-185-HD21
2003,486,O,488,H,486-O-488-H	2043,501,O,503,H,501-O-503-H
2004,486,O,505,HE2,486-O-505-HE2	2044,502,O,185,HD22,502-O-185-HD22
2005,487,O,505,HE2,487-O-505-HE2	2045,502,O,505,HE2,502-O-505-HE2
2006,487,O,489,H,487-O-489-H	2046,502,O,504,H,502-O-504-H
2007,488,O,487,HZ1,488-O-487-HZ1	2047,503,O,185,HD22,503-O-185-HD22
2008,488,O,490,H,488-O-490-H	2048,503,O,505,H,503-O-505-H
2009,488,O,487,HZ3,488-O-487-HZ3	2049,504,OE2,188,HE,504-OE2-188-HE
2010,488,O,487,HZ2,488-O-487-HZ2	2050,504,OE2,188,HH22,504-OE2-188-HH22
2011,489,OD1,491,HG1,489-OD1-491-HG1	2051,504,OE1,185,HD22,504-OE1-185-HD22
2012,489,O,491,H,489-O-491-H	2052,504,OE1,185,H,504-OE1-185-H
2013,489,OD1,491,H,489-OD1-491-H	2053,504,OE1,188,HH21,504-OE1-188-HH21
2014,489,OD2,491,HG1,489-OD2-491-HG1	2054,504,O,506,H,504-O-506-H
2015,489,OD2,491,H,489-OD2-491-H	2055,504,OE2,185,H,504-OE2-185-H
2016,489,OD1,490,H,489-OD1-490-H	2056,504,OE1,504,H,504-OE1-504-H
2017,489,OD1,487,HZ1,489-OD1-487-HZ1	2057,504,OE1,188,HH12,504-OE1-188-HH12
2018,489,O,500,HD1,489-O-500-HD1	2058,504,OE1,188,HH11,504-OE1-188-HH11
2019,489,OD2,490,H,489-OD2-490-H	2059,504,OE2,188,HH11,504-OE2-188-HH11
2020,489,OD1,487,HZ2,489-OD1-487-HZ2	2060,504,OE1,188,HE,504-OE1-188-HE
2021,489,O,501,H,489-O-501-H	2061,504,OE2,185,HD22,504-OE2-185-HD22
2022,490,O,501,H,490-O-501-H	2062,504,OE2,188,HH12,504-OE2-188-HH12
2023,491,O,501,H,491-O-501-H	2063,504,OE1,505,HE2,504-OE1-505-HE2
2024,492,O,58,HD21,492-O-58-HD21	2064,504,OE1,188,HH22,504-OE1-188-HH22
2025,493,O,499,H,493-O-499-H	2065,504,OE2,504,H,504-OE2-504-H
2026,494,OH,230,HG,494-OH-230-HG	2066,504,OE2,188,HH21,504-OE2-188-HH21
2027,494,OH,230,H,494-OH-230-H	2067,505,ND1,504,H,505-ND1-504-H
2028,494,OH,231,H,494-OH-231-H	2068,505,ND1,505,H,505-ND1-505-H
2029,496,O,497,HG1,496-O-497-HG1	2069,505,ND1,489,H,505-ND1-489-H
2030,497,OG1,499,HZ3,497-OG1-499-HZ3	2070,506,O,184,H,506-O-184-H
2031,497,O,499,HZ2,497-O-499-HZ2	2071,507,OE1,509,HE21,507-OE1-509-HE21
2032,497,O,499,HZ1,497-O-499-HZ1	2072,507,OE1,509,HE22,507-OE1-509-HE22
2033,497,O,499,HZ3,497-O-499-HZ3	2073,507,O,481,H,507-O-481-H
2034,497,OG1,499,HZ1,497-OG1-499-HZ1	2074,507,OE1,481,HG,507-OE1-481-HG
2035,497,OG1,499,HZ2,497-OG1-499-HZ2	2075,507,OE1,183,HE2,507-OE1-183-HE2

2076,507,O,509,HE22,507-O-509-HE22	6,39,OD1,39,H,39-OD1-39-H
2077,508,O,509,HE21,508-O-509-HE21	7,39,O,39,HD22,39-O-39-HD22
2078,509,OE1,481,HG,509-OE1-481-HG	8,39,OD1,405,HH21,39-OD1-405-HH21
2079,509,OE1,510,H,509-OE1-510-H	9,39,OD1,75,HE22,39-OD1-75-HE22
2080,509,O,479,H,509-O-479-H	10,40,O,75,HE21,40-O-75-HE21
2081,509,OE1,507,HE21,509-OE1-507-HE21	11,40,O,39,HD22,40-O-39-HD22
2082,509,OE1,175,HE22,509-OE1-175-HE22	12,41,O,75,H,41-O-75-H
2083,510,O,509,HE21,510-O-509-HE21	13,43,O,51,HE2,43-O-51-HE2
2084,511,O,353,HH12,511-O-353-HH12	14,44,O,51,HE2,44-O-51-HE2
2085,512,O,512,HG,512-O-512-HG	15,45,O,77,HH22,45-O-77-HH22
2086,512,O,353,HH22,512-O-353-HH22	16,45,O,77,HE,45-O-77-HE
2087,512,OXT,353,HH12,512-OXT-353-HH12	17,45,O,77,HH12,45-O-77-HH12
2088,512,OXT,353,HH22,512-OXT-353-HH22	18,45,O,77,HH11,45-O-77-HH11
2089,512,OXT,353,HH11,512-OXT-353-HH11	19,45,O,77,HH21,45-O-77-HH21
2090,512,OXT,512,HG,512-OXT-512-HG	20,46,O,49,H,46-O-49-H
2091,512,O,353,HH12,512-O-353-HH12	21,46,O,77,HH22,46-O-77-HH22
2092,513,O,516,H17,513-O-516-H17	22,46,O,48,H,46-O-48-H
2093,515,O1A,106,HH22,515-O1A-106-HH22	23,46,O,50,H,46-O-50-H
2094,515,O2D,106,HH21,515-O2D-106-HH21	24,46,O,77,HH12,46-O-77-HH12
2095,515,O2A,452,H,515-O2A-452-H	25,47,O,77,HH11,47-O-77-HH11
2096,515,O1D,455,HH11,515-O1D-455-HH11	26,47,O,77,HE,47-O-77-HE
2097,515,O1D,131,HE1,515-O1D-131-HE1	27,47,O,77,HH12,47-O-77-HH12
2098,515,O2D,455,HH11,515-O2D-455-HH11	28,47,O,77,HH22,47-O-77-HH22
2099,515,O2D,131,HE1,515-O2D-131-HE1	29,47,O,77,HH21,47-O-77-HH21
2100,515,O2A,106,HH12,515-O2A-106-HH12	30,47,O,80,HG,47-O-80-HG
2101,515,O2D,135,HH11,515-O2D-135-HH11	31,49,O,52,H,49-O-52-H
2102,515,O1D,106,HH21,515-O1D-106-HH21	32,49,O,79,H,49-O-79-H
2103,515,O1D,135,HH11,515-O1D-135-HH11	33,50,O,52,H,50-O-52-H
2104,515,O2A,106,HH22,515-O2A-106-HH22	34,50,O,46,H,50-O-46-H
2105,515,O1A,386,H,515-O1A-386-H	35,51,ND1,51,H,51-ND1-51-H
2106,515,O1A,106,HH12,515-O1A-106-HH12	36,51,O,55,H,51-O-55-H
2107,516,O15,497,HG1,516-O15-497-HG1	37,51,O,54,H,51-O-54-H
	38,51,ND1,77,H,51-ND1-77-H
	39,51,O,54,HG1,51-O-54-HG1
	40,52,O,56,H,52-O-56-H
	41,52,O,55,H,52-O-55-H
	42,53,O,56,H,53-O-56-H
	43,54,O,65,HH22,54-O-65-HH22
	44,54,OG1,46,HE1,54-OG1-46-HE1
	45,54,O,56,H,54-O-56-H
Model II	
RES_DONOR,ATOM_DONOR,RES_ACCEPTOR,ATOM_ACCEPTOR, TAG	
1,37,O,39,HD22,37-O-39-HD22	
2,37,O,39,H,37-O-39-H	
3,38,O,400,H,38-O-400-H	
4,39,O,38,HZ3,39-O-38-HZ3	
5,39,OD1,38,HZ2,39-OD1-38-HZ2	

46,55,O,57,H,55-O-57-H	86,67,O,70,H,67-O-70-H
47,55,O,58,H,55-O-58-H	87,67,O,69,H,67-O-69-H
48,57,O,57,HZ1,57-O-57-HZ1	88,67,O,71,H,67-O-71-H
49,57,O,57,HZ2,57-O-57-HZ2	89,67,OG,410,HD22,67-OG-410-HD22
50,57,O,58,HD22,57-O-58-HD22	90,67,OG,87,HG,67-OG-87-HG
51,58,O,61,H,58-O-61-H	91,67,OG,413,HE21,67-OG-413-HE21
52,58,OD1,57,HZ2,58-OD1-57-HZ2	92,68,OE1,418,HE22,68-OE1-418-HE22
53,58,O,62,H,58-O-62-H	93,68,OE1,413,HE22,68-OE1-413-HE22
54,59,O,63,H,59-O-63-H	94,68,OE1,65,HH11,68-OE1-65-HH11
55,60,ND1,60,H,60-ND1-60-H	95,68,OE1,419,HZ3,68-OE1-419-HZ3
56,60,O,410,HD21,60-O-410-HD21	96,68,NE2,413,HE22,68-NE2-413-HE22
57,60,O,64,HG,60-O-64-HG	97,68,OE1,65,HE,68-OE1-65-HE
58,60,O,64,H,60-O-64-H	98,68,OE1,65,HH21,68-OE1-65-HH21
59,60,ND1,61,H,60-ND1-61-H	99,68,OE1,419,HZ1,68-OE1-419-HZ1
60,61,O,64,H,61-O-64-H	100,68,OE1,419,HZ2,68-OE1-419-HZ2
61,61,O,65,H,61-O-65-H	101,68,OE1,413,HE21,68-OE1-413-HE21
62,61,O,65,HH11,61-O-65-HH11	102,69,OE1,65,HH22,69-OE1-65-HH22
63,62,O,66,H,62-O-66-H	103,69,OE1,70,HH,69-OE1-70-HH
64,62,O,65,H,62-O-65-H	104,69,OE1,65,HH12,69-OE1-65-HH12
65,63,O,66,H,63-O-66-H	105,69,O,69,HE21,69-O-69-HE21
66,63,O,413,HE22,63-O-413-HE22	106,69,OE1,65,HH21,69-OE1-65-HH21
67,63,O,67,HG,63-O-67-HG	107,70,OH,69,HE21,70-OH-69-HE21
68,63,O,67,H,63-O-67-H	108,71,O,67,HG,71-O-67-HG
69,64,OG,410,HD21,64-OG-410-HD21	109,71,O,87,HG,71-O-87-HG
70,64,O,67,HG,64-O-67-HG	110,72,OD2,72,H,72-OD2-72-H
71,64,O,413,HE22,64-O-413-HE22	111,72,OD1,397,HZ1,72-OD1-397-HZ1
72,64,O,68,H,64-O-68-H	112,72,OD2,397,HZ2,72-OD2-397-HZ2
73,64,O,68,HE21,64-O-68-HE21	113,72,OD1,397,HZ2,72-OD1-397-HZ2
74,64,O,67,H,64-O-67-H	114,72,O,87,H,72-O-87-H
75,64,OG,65,HH21,64-OG-65-HH21	115,72,OD1,397,HZ3,72-OD1-397-HZ3
76,65,O,69,HE21,65-O-69-HE21	116,72,OD1,72,H,72-OD1-72-H
77,65,O,69,H,65-O-69-H	117,72,O,88,H,72-O-88-H
78,65,O,69,HE22,65-O-69-HE22	118,72,OD2,397,HZ3,72-OD2-397-HZ3
79,65,O,65,HH11,65-O-65-HH11	119,72,OD2,91,HG1,72-OD2-91-HG1
80,65,O,68,H,65-O-68-H	120,72,OD2,397,HZ1,72-OD2-397-HZ1
81,66,O,69,HE21,66-O-69-HE21	121,72,OD1,91,HG1,72-OD1-91-HG1
82,66,O,70,H,66-O-70-H	122,74,O,85,H,74-O-85-H
83,66,O,69,H,66-O-69-H	123,75,NE2,39,HD22,75-NE2-39-HD22
84,67,OG,68,HE21,67-OG-68-HE21	124,75,OE1,405,HE,75-OE1-405-HE
85,67,OG,413,HE22,67-OG-413-HE22	125,75,OE1,405,HH21,75-OE1-405-HH21

126,75,OE1,39,HD22,75-OE1-39-HD22	166,90,OD2,93,HH22,90-OD2-93-HH22
127,75,OE1,405,HH11,75-OE1-405-HH11	167,90,O,94,H,90-O-94-H
128,75,OE1,39,HD21,75-OE1-39-HD21	168,90,OD2,93,HH11,90-OD2-93-HH11
129,75,OE1,77,HE,75-OE1-77-HE	169,90,O,94,HE21,90-O-94-HE21
130,76,O,75,HE21,76-O-75-HE21	170,90,OD1,94,HE21,90-OD1-94-HE21
131,76,O,83,H,76-O-83-H	171,90,OD2,98,HH12,90-OD2-98-HH12
132,77,O,51,H,77-O-51-H	172,90,OD1,93,HH11,90-OD1-93-HH11
133,78,O,81,H,78-O-81-H	173,90,OD1,397,HZ2,90-OD1-397-HZ2
134,78,O,81,HG1,78-O-81-HG1	174,90,OD1,91,HG1,90-OD1-91-HG1
135,79,O,77,HH21,79-O-77-HH21	175,90,OD1,91,H,90-OD1-91-H
136,79,O,77,HE,79-O-77-HE	176,90,OD2,397,HZ2,90-OD2-397-HZ2
137,79,O,77,HH11,79-O-77-HH11	177,90,OD1,397,HZ3,90-OD1-397-HZ3
138,80,O,77,HH12,80-O-77-HH12	178,90,OD2,91,HG1,90-OD2-91-HG1
139,80,O,77,HH11,80-O-77-HH11	179,90,OD2,91,H,90-OD2-91-H
140,80,O,77,HE,80-O-77-HE	180,90,OD1,98,HH22,90-OD1-98-HH22
141,80,O,80,HG,80-O-80-HG	181,90,OD2,94,HE21,90-OD2-94-HE21
142,80,O,77,HH21,80-O-77-HH21	182,90,OD2,397,HZ3,90-OD2-397-HZ3
143,80,OG,81,HG1,80-OG-81-HG1	183,90,OD2,98,HH22,90-OD2-98-HH22
144,81,O,81,HG1,81-O-81-HG1	184,90,OD1,397,HZ1,90-OD1-397-HZ1
145,81,OG1,405,HH12,81-OG1-405-HH12	185,90,OD1,93,HH21,90-OD1-93-HH21
146,81,O,78,H,81-O-78-H	186,90,OD2,93,HH21,90-OD2-93-HH21
147,82,O,405,HE,82-O-405-HE	187,90,OD2,93,HE,90-OD2-93-HE
148,82,O,405,HH11,82-O-405-HH11	188,90,O,98,HH22,90-O-98-HH22
149,83,O,75,HE21,83-O-75-HE21	189,90,OD2,93,HH12,90-OD2-93-HH12
150,83,O,76,H,83-O-76-H	190,90,OD1,98,HH12,90-OD1-98-HH12
151,84,O,408,H,84-O-408-H	191,90,OD1,93,HE,90-OD1-93-HE
152,85,O,74,H,85-O-74-H	192,90,OD1,90,H,90-OD1-90-H
153,85,O,87,HG,85-O-87-HG	193,90,OD2,397,HZ1,90-OD2-397-HZ1
154,86,O,87,HG,86-O-87-HG	194,90,OD1,93,HH12,90-OD1-93-HH12
155,86,O,410,H,86-O-410-H	195,90,O,98,HH12,90-O-98-HH12
156,87,OG,410,HD22,87-OG-410-HD22	196,90,OD1,93,HH22,90-OD1-93-HH22
157,87,O,67,HG,87-O-67-HG	197,91,OG1,397,HZ1,91-OG1-397-HZ1
158,87,O,87,HG,87-O-87-HG	198,91,OG1,397,HZ2,91-OG1-397-HZ2
159,87,OG,67,HG,87-OG-67-HG	199,91,OG1,397,HZ3,91-OG1-397-HZ3
160,87,O,413,HE22,87-O-413-HE22	200,91,O,95,H,91-O-95-H
161,87,O,413,HE21,87-O-413-HE21	201,92,O,95,H,92-O-95-H
162,88,O,91,H,88-O-91-H	202,92,O,96,H,92-O-96-H
163,88,O,92,H,88-O-92-H	203,93,O,98,H,93-O-98-H
164,89,O,92,H,89-O-92-H	204,93,O,97,H,93-O-97-H
165,89,O,93,H,89-O-93-H	205,94,OE1,98,HH11,94-OE1-98-HH11

206,94,OE1,397,HZ1,94-OE1-397-HZ1	246,101,OD2,454,HZ1,101-OD2-454-HZ1
207,94,OE1,397,HZ2,94-OE1-397-HZ2	247,101,O,104,HZ3,101-O-104-HZ3
208,94,OE1,397,HZ3,94-OE1-397-HZ3	248,101,OD2,392,HH12,101-OD2-392-HH12
209,94,OE1,397,H,94-OE1-397-H	249,101,OD2,392,HH22,101-OD2-392-HH22
210,94,O,98,H,94-O-98-H	250,101,OD2,104,HZ1,101-OD2-104-HZ1
211,94,OE1,99,HE21,94-OE1-99-HE21	251,101,OD2,104,HZ2,101-OD2-104-HZ2
212,94,OE1,98,HE,94-OE1-98-HE	252,101,OD1,392,HH12,101-OD1-392-HH12
213,94,OE1,98,HH21,94-OE1-98-HH21	253,101,OD1,392,HH22,101-OD1-392-HH22
214,94,O,99,HE21,94-O-99-HE21	254,101,OD2,104,HZ3,101-OD2-104-HZ3
215,94,O,99,H,94-O-99-H	255,101,O,104,HZ2,101-O-104-HZ2
216,95,O,100,H,95-O-100-H	256,101,OD2,101,H,101-OD2-101-H
217,95,O,99,H,95-O-99-H	257,101,O,391,HG1,101-O-391-HG1
218,96,O,454,H,96-O-454-H	258,101,OD1,104,HZ1,101-OD1-104-HZ1
219,97,O,454,HZ3,97-O-454-HZ3	259,102,O,391,HG1,102-O-391-HG1
220,97,O,454,HZ2,97-O-454-HZ2	260,102,OD1,392,HH11,102-OD1-392-HH11
221,97,O,454,HZ1,97-O-454-HZ1	261,102,OD2,392,HE,102-OD2-392-HE
222,97,O,100,H,97-O-100-H	262,102,O,392,H,102-O-392-H
223,98,O,99,HE21,98-O-99-HE21	263,102,O,391,H,102-O-391-H
224,98,O,98,HE,98-O-98-HE	264,102,OD1,99,HE21,102-OD1-99-HE21
225,98,O,100,H,98-O-100-H	265,102,OD2,392,HH21,102-OD2-392-HH21
226,98,O,98,HH11,98-O-98-HH11	266,102,OD2,394,HG1,102-OD2-394-HG1
227,99,OE1,94,HE21,99-OE1-94-HE21	267,102,O,104,H,102-O-104-H
228,99,OE1,98,HH21,99-OE1-98-HH21	268,102,OD1,392,HH21,102-OD1-392-HH21
229,99,OE1,98,HH11,99-OE1-98-HH11	269,102,OD1,392,HE,102-OD1-392-HE
230,99,O,103,H,99-O-103-H	270,102,OD2,99,HE21,102-OD2-99-HE21
231,99,O,102,H,99-O-102-H	271,102,OD2,392,HH11,102-OD2-392-HH11
232,99,O,101,H,99-O-101-H	272,102,OD1,394,HG1,102-OD1-394-HG1
233,99,OE1,98,HE,99-OE1-98-HE	273,103,O,105,H,103-O-105-H
234,100,O,104,H,100-O-104-H	274,103,O,388,HD1,103-O-388-HD1
235,100,O,103,H,100-O-103-H	275,104,O,455,HE,104-O-455-HE
236,101,O,392,HH12,101-O-392-HH12	276,104,O,455,HH21,104-O-455-HH21
237,101,O,104,HZ1,101-O-104-HZ1	277,104,O,127,HG,104-O-127-HG
238,101,OD1,454,HZ3,101-OD1-454-HZ3	278,104,O,455,HH22,104-O-455-HH22
239,101,OD1,454,HZ1,101-OD1-454-HZ1	279,105,O,389,H,105-O-389-H
240,101,OD1,104,HZ2,101-OD1-104-HZ2	280,107,O,109,H,107-O-109-H
241,101,OD1,104,HZ3,101-OD1-104-HZ3	281,108,OD1,108,H,108-OD1-108-H
242,101,OD1,454,HZ2,101-OD1-454-HZ2	282,108,OD2,108,H,108-OD2-108-H
243,101,OD2,454,HZ3,101-OD2-454-HZ3	283,109,O,113,HG1,109-O-113-HG1
244,101,OD2,454,HZ2,101-OD2-454-HZ2	284,109,O,113,H,109-O-113-H
245,101,O,392,HH11,101-O-392-HH11	285,109,O,112,H,109-O-112-H

286,110,OH,252,HZ1,110-OH-252-HZ1	326,119,OE1,306,HZ3,119-OE1-306-HZ3
287,110,OH,252,HZ3,110-OH-252-HZ3	327,119,OE1,134,HH12,119-OE1-134-HH12
288,110,O,113,H,110-O-113-H	328,119,OE1,306,HZ1,119-OE1-306-HZ1
289,110,O,113,HG1,110-O-113-HG1	329,119,OE1,306,HZ2,119-OE1-306-HZ2
290,110,O,114,H,110-O-114-H	330,119,NE2,306,HZ2,119-NE2-306-HZ2
291,110,OH,252,HZ2,110-OH-252-HZ2	331,119,OE1,259,HH,119-OE1-259-HH
292,111,O,115,H,111-O-115-H	332,119,O,134,HH22,119-O-134-HH22
293,111,OG1,112,H,111-OG1-112-H	333,119,O,309,HD22,119-O-309-HD22
294,111,OG1,232,HD22,111-OG1-232-HD22	334,119,O,309,HD21,119-O-309-HD21
295,111,O,114,H,111-O-114-H	335,119,O,134,HH12,119-O-134-HH12
296,112,O,114,H,112-O-114-H	336,119,NE2,309,HD22,119-NE2-309-HD22
297,112,O,115,H,112-O-115-H	337,119,OE1,309,HD21,119-OE1-309-HD21
298,113,O,118,H,113-O-118-H	338,119,OE1,309,HD22,119-OE1-309-HD22
299,114,O,255,HD21,114-O-255-HD21	339,119,OE1,124,HG,119-OE1-124-HG
300,114,O,117,H,114-O-117-H	340,119,OE1,117,HD22,119-OE1-117-HD22
301,114,O,118,H,114-O-118-H	341,120,OG,116,HG,120-OG-116-HG
302,115,O,118,H,115-O-118-H	342,120,O,134,HH22,120-O-134-HH22
303,115,O,119,H,115-O-119-H	343,120,O,134,HH12,120-O-134-HH12
304,115,O,120,H,115-O-120-H	344,120,OG,122,H,120-OG-122-H
305,116,O,120,H,116-O-120-H	345,120,O,124,HG,120-O-124-HG
306,116,O,119,H,116-O-119-H	346,120,O,124,H,120-O-124-H
307,116,OG,309,HD21,116-OG-309-HD21	347,120,O,123,H,120-O-123-H
308,116,OG,516,H10,116-OG-516-H10	348,120,OG,123,H,120-OG-123-H
309,116,O,309,HD21,116-O-309-HD21	349,121,O,131,HE1,121-O-131-HE1
310,116,O,119,HE21,116-O-119-HE21	350,121,O,106,HH21,121-O-106-HH21
311,116,O,309,HD22,116-O-309-HD22	351,121,N,134,HH12,121-N-134-HH12
312,117,O,119,HE21,117-O-119-HE21	352,121,O,124,H,121-O-124-H
313,117,O,119,H,117-O-119-H	353,121,O,124,HG,121-O-124-HG
314,117,OD1,119,HE21,117-OD1-119-HE21	354,121,O,106,HE,121-O-106-HE
315,117,OD1,306,HZ1,117-OD1-306-HZ1	355,121,O,455,HH12,121-O-455-HH12
316,117,OD1,255,HD21,117-OD1-255-HD21	356,122,OG,106,HH21,122-OG-106-HH21
317,117,OD1,309,HD22,117-OD1-309-HD22	357,122,O,106,HH21,122-O-106-HH21
318,117,O,117,HD22,117-O-117-HD22	358,122,O,106,HE,122-O-106-HE
319,117,O,306,HZ3,117-O-306-HZ3	359,124,O,126,H,124-O-126-H
320,117,OD1,306,HZ2,117-OD1-306-HZ2	360,124,OG,126,H,124-OG-126-H
321,117,O,306,HZ1,117-O-306-HZ1	361,125,O,106,H,125-O-106-H
322,117,OD1,306,HZ3,117-OD1-306-HZ3	362,125,O,127,HG,125-O-127-HG
323,117,O,306,HZ2,117-O-306-HZ2	363,126,OD2,306,HZ2,126-OD2-306-HZ2
324,118,O,119,HE21,118-O-119-HE21	364,126,OD2,131,H,126-OD2-131-H
325,118,O,124,HG,118-O-124-HG	365,126,O,124,HG,126-O-124-HG

366,126,OD1,306,HZ2,126-OD1-306-HZ2	406,136,O,140,HD22,136-O-140-HD22
367,126,OD1,131,H,126-OD1-131-H	407,136,O,140,H,136-O-140-H
368,126,OD1,128,H,126-OD1-128-H	408,137,O,141,H,137-O-141-H
369,126,OD2,128,H,126-OD2-128-H	409,138,O,142,H,138-O-142-H
370,126,O,127,HG,126-O-127-HG	410,139,OE1,143,HZ1,139-OE1-143-HZ1
371,126,OD1,126,H,126-OD1-126-H	411,139,OE1,143,HZ2,139-OE1-143-HZ2
372,126,OD1,127,H,126-OD1-127-H	412,139,OE1,135,HE,139-OE1-135-HE
373,126,O,455,HH22,126-O-455-HH22	413,139,OE1,136,HH11,139-OE1-136-HH11
374,126,OD1,119,HE22,126-OD1-119-HE22	414,139,OE1,143,HZ3,139-OE1-143-HZ3
375,126,OD1,306,HZ3,126-OD1-306-HZ3	415,139,O,143,HZ1,139-O-143-HZ1
376,126,OD1,134,HH11,126-OD1-134-HH11	416,139,O,143,H,139-O-143-H
377,126,OD2,134,HH11,126-OD2-134-HH11	417,139,O,143,HZ2,139-O-143-HZ2
378,126,OD1,124,HG,126-OD1-124-HG	418,139,OE1,136,HH22,139-OE1-136-HH22
379,126,OD2,127,H,126-OD2-127-H	419,139,O,139,HE21,139-O-139-HE21
380,127,OG,104,HZ3,127-OG-104-HZ3	420,139,O,143,HZ3,139-O-143-HZ3
381,127,OG,104,HZ1,127-OG-104-HZ1	421,139,OE1,135,HH12,139-OE1-135-HH12
382,127,O,104,HZ2,127-O-104-HZ2	422,139,OE1,135,HH11,139-OE1-135-HH11
383,127,O,104,HZ3,127-O-104-HZ3	423,139,OE1,135,HH21,139-OE1-135-HH21
384,127,O,104,HZ1,127-O-104-HZ1	424,140,OD1,143,HZ2,140-OD1-143-HZ2
385,127,OG,104,HZ2,127-OG-104-HZ2	425,140,OD1,143,HZ1,140-OD1-143-HZ1
386,127,OG,455,HH21,127-OG-455-HH21	426,140,OD1,136,HH12,140-OD1-136-HH12
387,128,O,132,H,128-O-132-H	427,140,OD1,143,HZ3,140-OD1-143-HZ3
388,128,O,131,H,128-O-131-H	428,140,OD1,139,HE21,140-OD1-139-HE21
389,129,O,133,H,129-O-133-H	429,140,O,143,H,140-O-143-H
390,129,O,297,HD22,129-O-297-HD22	430,140,OD1,136,HE,140-OD1-136-HE
391,130,O,133,H,130-O-133-H	431,140,OD1,139,HE22,140-OD1-139-HE22
392,130,O,134,H,130-O-134-H	432,140,OD1,136,HH21,140-OD1-136-HH21
393,130,O,299,HD21,130-O-299-HD21	433,140,O,144,H,140-O-144-H
394,130,O,297,HD22,130-O-297-HD22	434,140,O,144,HG,140-O-144-HG
395,131,O,134,H,131-O-134-H	435,141,O,144,HG,141-O-144-HG
396,131,O,135,H,131-O-135-H	436,141,O,145,H,141-O-145-H
397,132,O,136,H,132-O-136-H	437,141,O,144,H,141-O-144-H
398,133,O,137,H,133-O-137-H	438,142,O,146,HG,142-O-146-HG
399,133,O,136,H,133-O-136-H	439,142,O,146,H,142-O-146-H
400,133,O,297,HD22,133-O-297-HD22	440,142,O,147,H,142-O-147-H
401,134,O,138,H,134-O-138-H	441,142,O,145,H,142-O-145-H
402,135,O,139,H,135-O-139-H	442,143,O,146,H,143-O-146-H
403,135,O,138,H,135-O-138-H	443,143,O,148,H,143-O-148-H
404,135,O,139,HE21,135-O-139-HE21	444,143,O,147,H,143-O-147-H
405,136,O,139,H,136-O-139-H	445,144,O,144,HG,144-O-144-HG

446,144,O,158,HH,144-O-158-HH	486,155,OG1,154,HG,155-OG1-154-HG
447,145,O,162,HE2,145-O-162-HE2	487,155,OG1,153,HG,155-OG1-153-HG
448,145,O,146,HG,145-O-146-HG	488,155,O,155,HG1,155-O-155-HG1
449,146,OG,147,H,146-OG-147-H	489,155,OG1,358,HH22,155-OG1-358-HH22
450,146,O,159,H,146-O-159-H	490,156,O,153,HG,156-O-153-HG
451,146,O,146,HG,146-O-146-HG	491,156,OG,358,HH12,156-OG-358-HH12
452,148,O,158,H,148-O-158-H	492,156,OG,358,HH22,156-OG-358-HH22
453,149,O,149,HG,149-O-149-HG	493,156,O,149,HG,156-O-149-HG
454,149,OG,154,HG,149-OG-154-HG	494,156,OG,358,HH21,156-OG-358-HH21
455,150,OD2,153,HG,150-OD2-153-HG	495,156,OG,356,HH12,156-OG-356-HH12
456,150,O,153,H,150-O-153-H	496,156,OG,155,HG1,156-OG-155-HG1
457,150,OD1,152,H,150-OD1-152-H	497,156,OG,153,HG,156-OG-153-HG
458,150,OD1,158,HH,150-OD1-158-HH	498,156,OG,356,HH22,156-OG-356-HH22
459,150,O,154,HG,150-O-154-HG	499,156,O,150,H,156-O-150-H
460,150,OD1,153,HG,150-OD1-153-HG	500,156,OG,356,HH21,156-OG-356-HH21
461,150,O,152,H,150-O-152-H	501,156,OG,157,H,156-OG-157-H
462,150,OD1,153,H,150-OD1-153-H	502,157,O,161,H,157-O-161-H
463,150,OD2,153,H,150-OD2-153-H	503,157,O,160,H,157-O-160-H
464,150,OD2,152,H,150-OD2-152-H	504,157,O,156,HG,157-O-156-HG
465,150,O,149,HG,150-O-149-HG	505,158,O,161,H,158-O-161-H
466,151,O,153,H,151-O-153-H	506,158,O,162,H,158-O-162-H
467,152,O,154,H,152-O-154-H	507,159,O,163,H,159-O-163-H
468,153,OG,156,H,153-OG-156-H	508,159,O,162,H,159-O-162-H
469,153,O,156,H,153-O-156-H	509,160,OE1,356,HE,160-OE1-356-HE
470,153,OG,154,H,153-OG-154-H	510,160,OE1,359,H,160-OE1-359-H
471,153,OG,155,H,153-OG-155-H	511,160,OE2,356,HH22,160-OE2-356-HH22
472,153,O,153,HG,153-O-153-HG	512,160,O,164,H,160-O-164-H
473,153,O,155,H,153-O-155-H	513,160,OE2,358,HE,160-OE2-358-HE
474,153,OG,156,HG,153-OG-156-HG	514,160,OE2,358,HH11,160-OE2-358-HH11
475,154,O,154,HG,154-O-154-HG	515,160,O,164,HG,160-O-164-HG
476,154,O,149,HG,154-O-149-HG	516,160,OE2,157,H,160-OE2-157-H
477,154,OG,155,HG1,154-OG-155-HG1	517,160,OE1,156,HG,160-OE1-156-HG
478,154,OG,155,H,154-OG-155-H	518,160,OE2,356,HE,160-OE2-356-HE
479,154,O,155,HG1,154-O-155-HG1	519,160,OE2,358,HH21,160-OE2-358-HH21
480,155,O,358,HH22,155-O-358-HH22	520,160,OE1,356,HH12,160-OE1-356-HH12
481,155,OG1,358,HH12,155-OG1-358-HH12	521,160,OE1,356,HH21,160-OE1-356-HH21
482,155,O,358,HH21,155-O-358-HH21	522,160,OE2,156,HG,160-OE2-156-HG
483,155,O,149,HG,155-O-149-HG	523,160,OE2,359,H,160-OE2-359-H
484,155,OG1,156,HG,155-OG1-156-HG	524,160,OE2,356,HH12,160-OE2-356-HH12
485,155,OG1,360,HG,155-OG1-360-HG	525,160,OE1,356,HH22,160-OE1-356-HH22

526,160,OE1,358,HH11,160-OE1-358-HH11
527,160,OE1,157,H,160-OE1-157-H
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530,160,OE1,358,HE,160-OE1-358-HE
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558,163,O,167,H,163-O-167-H
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573,166,OE2,165,HZ1,166-OE2-165-HZ1
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584,168,OE1,477,HH21,168-OE1-477-HH21
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601,170,O,174,H,170-O-174-H
602,170,O,173,H,170-O-173-H
603,171,O,173,H,171-O-173-H
604,171,O,175,H,171-O-175-H
605,171,O,175,HE21,171-O-175-HE21

606,172,O,175,H,172-O-175-H	646,187,O,190,H,187-O-190-H
607,172,O,176,H,172-O-176-H	647,187,OH,219,HD22,187-OH-219-HD22
608,172,O,175,HE21,172-O-175-HE21	648,187,OH,499,HZ3,187-OH-499-HZ3
609,173,OG1,209,HE2,173-OG1-209-HE2	649,187,OH,324,HG1,187-OH-324-HG1
610,173,O,176,H,173-O-176-H	650,188,O,219,HD21,188-O-219-HD21
611,173,O,177,H,173-O-177-H	651,189,O,192,H,189-O-192-H
612,174,O,177,H,174-O-177-H	652,189,OH,188,HH21,189-OH-188-HH21
613,174,O,178,H,174-O-178-H	653,189,O,193,H,189-O-193-H
614,175,OE1,477,HH11,175-OE1-477-HH11	654,189,OH,188,HE,189-OH-188-HE
615,175,OE1,510,H,175-OE1-510-H	655,189,O,209,HE2,189-O-209-HE2
616,175,O,175,HE21,175-O-175-HE21	656,189,OH,188,HH11,189-OH-188-HH11
617,175,O,179,H,175-O-179-H	657,189,O,193,HG,189-O-193-HG
618,175,O,178,H,175-O-178-H	658,190,O,194,H,190-O-194-H
619,176,O,179,H,176-O-179-H	659,190,O,193,HG,190-O-193-HG
620,176,OE1,175,HE22,176-OE1-175-HE22	660,190,O,193,H,190-O-193-H
621,176,OE1,175,HE21,176-OE1-175-HE21	661,191,O,195,H,191-O-195-H
622,176,O,180,H,176-O-180-H	662,191,O,195,HG1,191-O-195-HG1
623,176,OE2,175,HE22,176-OE2-175-HE22	663,192,O,196,H,192-O-196-H
624,176,OE2,172,HG,176-OE2-172-HG	664,192,O,196,HD22,192-O-196-HD22
625,177,O,180,H,177-O-180-H	665,193,O,197,H,193-O-197-H
626,177,O,182,H,177-O-182-H	666,193,O,196,H,193-O-196-H
627,178,O,180,H,178-O-180-H	667,193,OG,209,HE2,193-OG-209-HE2
628,180,O,182,H,180-O-182-H	668,194,O,197,H,194-O-197-H
629,181,O,183,H,181-O-183-H	669,194,O,198,H,194-O-198-H
630,182,O,507,HE21,182-O-507-HE21	670,195,O,199,H,195-O-199-H
631,182,O,508,H,182-O-508-H	671,196,O,200,H,196-O-200-H
632,183,ND1,507,HE21,183-ND1-507-HE21	672,196,OD1,207,H,196-OD1-207-H
633,183,ND1,183,H,183-ND1-183-H	673,197,O,201,H,197-O-201-H
634,184,O,505,H,184-O-505-H	674,197,O,200,H,197-O-200-H
635,184,O,506,H,184-O-506-H	675,198,O,202,H,198-O-202-H
636,185,OD1,187,H,185-OD1-187-H	676,199,O,205,H,199-O-205-H
637,185,OD1,188,H,185-OD1-188-H	677,199,O,204,H,199-O-204-H
638,185,O,187,H,185-O-187-H	678,199,O,203,H,199-O-203-H
639,185,O,189,H,185-O-189-H	679,200,O,204,H,200-O-204-H
640,186,O,189,H,186-O-189-H	680,201,O,281,H,201-O-281-H
641,186,O,190,H,186-O-190-H	681,202,O,282,HG1,202-O-282-HG1
642,186,O,327,HG,186-O-327-HG	682,202,O,282,H,202-O-282-H
643,187,OH,499,HZ2,187-OH-499-HZ2	683,202,O,281,H,202-O-281-H
644,187,O,191,H,187-O-191-H	684,203,O,205,HE,203-O-205-HE
645,187,OH,499,HZ1,187-OH-499-HZ1	685,203,O,205,HH11,203-O-205-HH11

686,203,O,205,HH21,203-O-205-HH21	726,211,O,214,H,211-O-214-H
687,203,O,205,H,203-O-205-H	727,212,O,216,HG,212-O-216-HG
688,204,O,205,HE,204-O-205-HE	728,212,O,212,HE21,212-O-212-HE21
689,204,O,205,HH11,204-O-205-HH11	729,212,OE1,212,H,212-OE1-212-H
690,204,O,205,HH21,204-O-205-HH21	730,212,O,216,H,212-O-216-H
691,206,O,205,HH11,206-O-205-HH11	731,212,O,215,H,212-O-215-H
692,206,O,205,HH12,206-O-205-HH12	732,212,OE1,216,HG,212-OE1-216-HG
693,207,O,196,HD21,207-O-196-HD21	733,213,OE1,212,HE22,213-OE1-212-HE22
694,208,OD2,209,H,208-OD2-209-H	734,213,O,257,HZ1,213-O-257-HZ1
695,208,O,211,H,208-O-211-H	735,213,O,257,HZ2,213-O-257-HZ2
696,208,OD1,206,HH22,208-OD1-206-HH22	736,213,OE1,257,HZ2,213-OE1-257-HZ2
697,208,OD1,210,HD21,208-OD1-210-HD21	737,213,OE1,213,H,213-OE1-213-H
698,208,OD1,210,H,208-OD1-210-H	738,213,OE2,264,HZ1,213-OE2-264-HZ1
699,208,OD2,210,HD21,208-OD2-210-HD21	739,213,OE1,216,HG,213-OE1-216-HG
700,208,OD1,209,H,208-OD1-209-H	740,213,OE2,257,HZ1,213-OE2-257-HZ1
701,208,OD2,206,HH22,208-OD2-206-HH22	741,213,OE2,264,HZ3,213-OE2-264-HZ3
702,208,OD1,210,HD22,208-OD1-210-HD22	742,213,OE2,264,HZ2,213-OE2-264-HZ2
703,208,OD2,210,H,208-OD2-210-H	743,213,OE1,264,HZ3,213-OE1-264-HZ3
704,208,OD2,206,HH11,208-OD2-206-HH11	744,213,OE1,264,HZ1,213-OE1-264-HZ1
705,208,OD2,206,HH12,208-OD2-206-HH12	745,213,O,216,H,213-O-216-H
706,208,OD2,210,HD22,208-OD2-210-HD22	746,213,OE1,211,HE2,213-OE1-211-HE2
707,208,OD2,208,H,208-OD2-208-H	747,213,OE1,257,HZ3,213-OE1-257-HZ3
708,208,OD1,208,H,208-OD1-208-H	748,213,OE2,211,HE2,213-OE2-211-HE2
709,208,O,210,H,208-O-210-H	749,213,OE1,264,HZ2,213-OE1-264-HZ2
710,208,OD1,206,HH12,208-OD1-206-HH12	750,213,OE1,257,HZ1,213-OE1-257-HZ1
711,209,ND1,173,HG1,209-ND1-173-HG1	751,213,OE2,260,HG,213-OE2-260-HG
712,209,O,212,HE21,209-O-212-HE21	752,213,O,217,H,213-O-217-H
713,209,O,211,H,209-O-211-H	753,213,OE2,213,H,213-OE2-213-H
714,209,O,210,HD22,209-O-210-HD22	754,213,OE1,212,HE21,213-OE1-212-HE21
715,209,ND1,209,H,209-ND1-209-H	755,213,OE2,257,HZ2,213-OE2-257-HZ2
716,209,O,212,HE22,209-O-212-HE22	756,213,OE2,207,HH,213-OE2-207-HH
717,210,O,210,HD22,210-O-210-HD22	757,213,O,216,HG,213-O-216-HG
718,210,O,212,HE21,210-O-212-HE21	758,213,OE2,257,HZ3,213-OE2-257-HZ3
719,210,OD1,210,H,210-OD1-210-H	759,214,O,218,H,214-O-218-H
720,210,OD1,212,HE21,210-OD1-212-HE21	760,214,O,217,H,214-O-217-H
721,210,O,212,H,210-O-212-H	761,215,O,219,H,215-O-219-H
722,211,ND1,213,H,211-ND1-213-H	762,215,O,218,H,215-O-218-H
723,211,O,215,H,211-O-215-H	763,215,O,220,H,215-O-220-H
724,211,ND1,214,H,211-ND1-214-H	764,215,O,217,H,215-O-217-H
725,211,ND1,208,H,211-ND1-208-H	765,216,OG,221,HD22,216-OG-221-HD22

766,216,O,220,H,216-O-220-H	806,222,OD1,225,H,222-OD1-225-H
767,216,OG,257,HZ3,216-OG-257-HZ3	807,222,OD1,223,H,222-OD1-223-H
768,216,O,222,HD22,216-O-222-HD22	808,222,OD1,224,H,222-OD1-224-H
769,216,OG,257,HZ2,216-OG-257-HZ2	809,222,O,224,H,222-O-224-H
770,216,O,257,HZ3,216-O-257-HZ3	810,223,O,227,H,223-O-227-H
771,216,OG,257,HZ1,216-OG-257-HZ1	811,223,O,226,H,223-O-226-H
772,216,OG,212,HE21,216-OG-212-HE21	812,223,OD1,247,HG,223-OD1-247-HG
773,216,O,221,HD22,216-O-221-HD22	813,223,O,223,HD22,223-O-223-HD22
774,216,O,257,HZ1,216-O-257-HZ1	814,223,OD1,223,H,223-OD1-223-H
775,216,O,216,HG,216-O-216-HG	815,224,O,227,H,224-O-227-H
776,216,O,219,H,216-O-219-H	816,224,O,228,H,224-O-228-H
777,216,O,257,HZ2,216-O-257-HZ2	817,225,O,496,H,225-O-496-H
778,217,O,222,HD21,217-O-222-HD21	818,226,O,247,HG,226-O-247-HG
779,217,O,222,HD22,217-O-222-HD22	819,226,OE1,57,HZ2,226-OE1-57-HZ2
780,218,O,219,HD22,218-O-219-HD22	820,226,OE1,57,HZ3,226-OE1-57-HZ3
781,218,O,222,HD22,218-O-222-HD22	821,226,OE2,57,HZ3,226-OE2-57-HZ3
782,218,O,222,HD21,218-O-222-HD21	822,226,OE1,247,HG,226-OE1-247-HG
783,219,O,222,HD22,219-O-222-HD22	823,226,OE1,223,HD22,226-OE1-223-HD22
784,219,O,222,H,219-O-222-H	824,226,OE2,57,HZ2,226-OE2-57-HZ2
785,219,OD1,188,HH11,219-OD1-188-HH11	825,226,OE1,226,H,226-OE1-226-H
786,219,O,219,HD22,219-O-219-HD22	826,226,OE2,222,HD22,226-OE2-222-HD22
787,219,O,221,H,219-O-221-H	827,226,OE2,57,HZ1,226-OE2-57-HZ1
788,219,O,222,HD21,219-O-222-HD21	828,226,OE2,247,HG,226-OE2-247-HG
789,219,OD1,188,HE,219-OD1-188-HE	829,226,OE1,57,HZ1,226-OE1-57-HZ1
790,219,OD1,188,HH21,219-OD1-188-HH21	830,226,O,232,HD21,226-O-232-HD21
791,220,O,257,HZ3,220-O-257-HZ3	831,226,OE2,223,HD22,226-OE2-223-HD22
792,220,O,222,H,220-O-222-H	832,227,O,232,HD22,227-O-232-HD22
793,220,O,221,HD22,220-O-221-HD22	833,227,O,232,HD21,227-O-232-HD21
794,220,O,257,HZ1,220-O-257-HZ1	834,228,O,496,H,228-O-496-H
795,220,O,222,HD21,220-O-222-HD21	835,229,O,231,H,229-O-231-H
796,221,O,223,H,221-O-223-H	836,229,O,232,HD22,229-O-232-HD22
797,221,O,221,HD22,221-O-221-HD22	837,229,O,232,H,229-O-232-H
798,221,O,223,HD22,221-O-223-HD22	838,230,O,494,HH,230-O-494-HH
799,221,O,257,HZ3,221-O-257-HZ3	839,230,O,230,HG,230-O-230-HG
800,221,O,257,HZ1,221-O-257-HZ1	840,230,OG,494,HH,230-OG-494-HH
801,221,OD1,223,HD22,221-OD1-223-HD22	841,231,O,229,H,231-O-229-H
802,221,OD1,216,HG,221-OD1-216-HG	842,232,O,235,H,232-O-235-H
803,221,O,257,HZ2,221-O-257-HZ2	843,232,OD1,235,H,232-OD1-235-H
804,222,OD1,220,H,222-OD1-220-H	844,232,OD1,234,H,232-OD1-234-H
805,222,O,222,HD21,222-O-222-HD21	845,232,OD1,494,HH,232-OD1-494-HH

846,232,O,236,H,232-O-236-H	886,245,OD1,248,H,245-OD1-248-H
847,233,O,237,H,233-O-237-H	887,246,O,249,HD22,246-O-249-HD22
848,233,O,236,H,233-O-236-H	888,246,O,250,H,246-O-250-H
849,234,O,241,HH11,234-O-241-HH11	889,246,O,249,H,246-O-249-H
850,234,O,237,H,234-O-237-H	890,247,OG,245,HD21,247-OG-245-HD21
851,235,OD2,241,HH11,235-OD2-241-HH11	891,247,O,223,HD21,247-O-223-HD21
852,235,OD1,110,H,235-OD1-110-H	892,247,OG,223,HD21,247-OG-223-HD21
853,235,OD1,235,H,235-OD1-235-H	893,247,OG,223,HD22,247-OG-223-HD22
854,235,OD2,110,H,235-OD2-110-H	894,247,O,251,H,247-O-251-H
855,235,OD1,111,H,235-OD1-111-H	895,247,O,250,H,247-O-250-H
856,235,O,241,HH12,235-O-241-HH12	896,248,O,251,H,248-O-251-H
857,235,OD2,232,HD22,235-OD2-232-HD22	897,248,O,252,H,248-O-252-H
858,235,OD1,111,HG1,235-OD1-111-HG1	898,248,O,110,HH,248-O-110-HH
859,235,O,241,HH11,235-O-241-HH11	899,249,O,252,HZ3,249-O-252-HZ3
860,235,OD1,232,HD22,235-OD1-232-HD22	900,249,OD1,252,HZ2,249-OD1-252-HZ2
861,235,OD2,235,H,235-OD2-235-H	901,249,O,253,H,249-O-253-H
862,235,OD2,111,H,235-OD2-111-H	902,249,O,252,H,249-O-252-H
863,235,OD1,232,H,235-OD1-232-H	903,249,OD1,252,HZ3,249-OD1-252-HZ3
864,235,OD2,111,HG1,235-OD2-111-HG1	904,249,OD1,245,H,249-OD1-245-H
865,236,O,241,HH12,236-O-241-HH12	905,249,O,249,HD22,249-O-249-HD22
866,236,O,80,H,236-O-80-H	906,249,OD1,252,HZ1,249-OD1-252-HZ1
867,237,O,240,H,237-O-240-H	907,249,O,252,HZ1,249-O-252-HZ1
868,238,O,242,H,238-O-242-H	908,250,O,253,H,250-O-253-H
869,238,O,241,H,238-O-241-H	909,250,O,223,HD21,250-O-223-HD21
870,239,O,242,H,239-O-242-H	910,250,O,221,HD21,250-O-221-HD21
871,239,O,243,H,239-O-243-H	911,250,O,254,H,250-O-254-H
872,239,O,241,H,239-O-241-H	912,251,O,255,H,251-O-255-H
873,240,O,243,H,240-O-243-H	913,251,O,255,HD22,251-O-255-HD22
874,240,O,245,HD22,240-O-245-HD22	914,252,O,256,H,252-O-256-H
875,240,O,245,H,240-O-245-H	915,252,O,255,H,252-O-255-H
876,243,O,245,HD22,243-O-245-HD22	916,253,OD1,257,HZ3,253-OD1-257-HZ3
877,243,O,245,H,243-O-245-H	917,253,OD1,257,HZ1,253-OD1-257-HZ1
878,244,O,249,HD21,244-O-249-HD21	918,253,OD2,252,HZ3,253-OD2-252-HZ3
879,244,O,249,HD22,244-O-249-HD22	919,253,OD2,257,HZ3,253-OD2-257-HZ3
880,245,OD1,247,H,245-OD1-247-H	920,253,OD1,252,HZ2,253-OD1-252-HZ2
881,245,O,249,H,245-O-249-H	921,253,OD2,257,HZ2,253-OD2-257-HZ2
882,245,ND2,245,H,245-ND2-245-H	922,253,OD1,252,HZ1,253-OD1-252-HZ1
883,245,OD1,247,HG,245-OD1-247-HG	923,253,OD1,252,HZ3,253-OD1-252-HZ3
884,245,O,249,HD22,245-O-249-HD22	924,253,O,257,HZ2,253-O-257-HZ2
885,245,O,248,H,245-O-248-H	925,253,OD2,257,HZ1,253-OD2-257-HZ1

926,253,O,256,H,253-O-256-H	966,260,O,264,HZ2,260-O-264-HZ2
927,253,OD2,252,HZ2,253-OD2-252-HZ2	967,260,OG,264,HZ1,260-OG-264-HZ1
928,253,OD1,257,HZ2,253-OD1-257-HZ2	968,260,O,264,H,260-O-264-H
929,253,O,257,H,253-O-257-H	969,261,O,265,H,261-O-265-H
930,253,O,257,HZ3,253-O-257-HZ3	970,261,O,264,H,261-O-264-H
931,253,OD2,252,HZ1,253-OD2-252-HZ1	971,262,O,266,H,262-O-266-H
932,254,O,258,H,254-O-258-H	972,262,O,265,H,262-O-265-H
933,254,O,257,H,254-O-257-H	973,263,OE1,259,HH,263-OE1-259-HH
934,255,OD1,116,H,255-OD1-116-H	974,263,OE1,267,HZ1,263-OE1-267-HZ1
935,255,OD1,117,H,255-OD1-117-H	975,263,O,267,H,263-O-267-H
936,255,O,259,H,255-O-259-H	976,263,O,267,HZ1,263-O-267-HZ1
937,256,OE2,252,HZ2,256-OE2-252-HZ2	977,263,O,266,H,263-O-266-H
938,256,OE1,252,HZ2,256-OE1-252-HZ2	978,263,O,263,HE21,263-O-263-HE21
939,256,O,260,HG,256-O-260-HG	979,263,O,267,HZ2,263-O-267-HZ2
940,256,OE1,117,HD21,256-OE1-117-HD21	980,263,OE1,267,HZ3,263-OE1-267-HZ3
941,256,OE1,252,HZ3,256-OE1-252-HZ3	981,263,O,267,HZ3,263-O-267-HZ3
942,256,OE2,255,HD22,256-OE2-255-HD22	982,263,OE1,267,HZ2,263-OE1-267-HZ2
943,256,OE1,252,HZ1,256-OE1-252-HZ1	983,264,O,268,H,264-O-268-H
944,256,OE2,252,HZ3,256-OE2-252-HZ3	984,264,O,267,H,264-O-267-H
945,256,OE1,255,HD22,256-OE1-255-HD22	985,265,O,205,HH22,265-O-205-HH22
946,256,OE2,117,HD21,256-OE2-117-HD21	986,265,O,269,H,265-O-269-H
947,256,O,260,H,256-O-260-H	987,265,O,268,H,265-O-268-H
948,256,OE2,260,HG,256-OE2-260-HG	988,266,O,269,H,266-O-269-H
949,256,OE2,252,HZ1,256-OE2-252-HZ1	989,266,O,270,H,266-O-270-H
950,256,O,259,H,256-O-259-H	990,267,O,271,HZ1,267-O-271-HZ1
951,257,O,261,H,257-O-261-H	991,267,O,271,HZ3,267-O-271-HZ3
952,257,O,260,HG,257-O-260-HG	992,267,O,270,H,267-O-270-H
953,258,O,261,H,258-O-261-H	993,267,O,271,H,267-O-271-H
954,258,O,262,H,258-O-262-H	994,267,O,271,HZ2,267-O-271-HZ2
955,259,OH,309,HD22,259-OH-309-HD22	995,268,OE1,205,HH22,268-OE1-205-HH22
956,259,O,263,H,259-O-263-H	996,268,O,272,H,268-O-272-H
957,259,O,262,H,259-O-262-H	997,268,OE1,267,HZ2,268-OE1-267-HZ2
958,259,OH,117,HD22,259-OH-117-HD22	998,268,OE1,267,HZ1,268-OE1-267-HZ1
959,259,OH,263,HE21,259-OH-263-HE21	999,268,OE2,205,HH12,268-OE2-205-HH12
960,259,OH,119,HE21,259-OH-119-HE21	1000,268,OE1,205,HH12,268-OE1-205-HH12
961,259,OH,119,HE22,259-OH-119-HE22	1001,268,OE2,205,HH22,268-OE2-205-HH22
962,259,OH,309,HD21,259-OH-309-HD21	1002,268,OE1,267,HZ3,268-OE1-267-HZ3
963,259,O,263,HE21,259-O-263-HE21	1003,268,OE2,267,HZ1,268-OE2-267-HZ1
964,260,O,264,HZ1,260-O-264-HZ1	1004,268,OE2,271,HZ1,268-OE2-271-HZ1
965,260,OG,264,HZ2,260-OG-264-HZ2	1005,268,OE2,267,HZ3,268-OE2-267-HZ3

1006,268,OE1,264,HZ3,268-OE1-264-HZ3	1046,272,OG1,279,HH22,272-OG1-279-HH22
1007,268,OE2,271,HZ2,268-OE2-271-HZ2	1047,272,OG1,205,HH12,272-OG1-205-HH12
1008,268,OE1,205,HH21,268-OE1-205-HH21	1048,272,OG1,279,HH12,272-OG1-279-HH12
1009,268,OE1,207,HH,268-OE1-207-HH	1049,272,O,279,HH21,272-O-279-HH21
1010,268,OE1,271,HZ3,268-OE1-271-HZ3	1050,272,O,279,HH12,272-O-279-HH12
1011,268,OE2,205,HH11,268-OE2-205-HH11	1051,274,OE1,275,HZ2,274-OE1-275-HZ2
1012,268,OE1,271,HZ1,268-OE1-271-HZ1	1052,274,O,276,H,274-O-276-H
1013,268,OE1,205,HH11,268-OE1-205-HH11	1053,274,OE2,275,HZ2,274-OE2-275-HZ2
1014,268,OE1,271,HZ2,268-OE1-271-HZ2	1054,274,OE2,276,H,274-OE2-276-H
1015,268,OE2,264,HZ2,268-OE2-264-HZ2	1055,274,OE1,275,HZ3,274-OE1-275-HZ3
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1017,268,OE2,205,HH21,268-OE2-205-HH21	1057,274,OE1,276,H,274-OE1-276-H
1018,268,OE1,205,HE,268-OE1-205-HE	1058,274,OE2,277,HE2,274-OE2-277-HE2
1019,268,O,205,HH22,268-O-205-HH22	1059,274,OE2,275,H,274-OE2-275-H
1020,268,OE2,207,HH,268-OE2-207-HH	1060,274,OE1,279,HH22,274-OE1-279-HH22
1021,268,OE2,264,HZ3,268-OE2-264-HZ3	1061,274,OE2,275,HZ1,274-OE2-275-HZ1
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1024,268,O,271,H,268-O-271-H	1064,274,OE2,275,HZ3,274-OE2-275-HZ3
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1026,268,OE2,264,HZ1,268-OE2-264-HZ1	1066,276,O,278,H,276-O-278-H
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1033,269,ND1,205,HH21,269-ND1-205-HH21	1073,280,OD2,282,HG1,280-OD2-282-HG1
1034,269,O,272,HG1,269-O-272-HG1	1074,280,O,284,H,280-O-284-H
1035,269,ND1,205,HH12,269-ND1-205-HH12	1075,280,OD1,269,HE2,280-OD1-269-HE2
1036,270,O,273,H,270-O-273-H	1076,280,OD1,283,H,280-OD1-283-H
1037,270,OH,290,HE21,270-OH-290-HE21	1077,280,OD1,282,HG1,280-OD1-282-HG1
1038,270,OH,271,HZ2,270-OH-271-HZ2	1078,280,OD1,282,H,280-OD1-282-H
1039,270,OH,290,HE22,270-OH-290-HE22	1079,280,O,283,H,280-O-283-H
1040,271,O,273,H,271-O-273-H	1080,280,OD2,269,HE2,280-OD2-269-HE2
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1042,272,OG1,205,HH22,272-OG1-205-HH22	1082,281,O,284,HG,281-O-284-HG
1043,272,O,279,HH22,272-O-279-HH22	1083,281,O,284,H,281-O-284-H
1044,272,OG1,205,HH21,272-OG1-205-HH21	1084,281,O,285,H,281-O-285-H
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1254,301,OE1,300,H,301-OE1-300-H	1294,305,OE2,119,HE22,305-OE2-119-HE22
1255,301,OE1,306,HZ3,301-OE1-306-HZ3	1295,305,OE2,303,HG,305-OE2-303-HG
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1257,301,O,306,HZ1,301-O-306-HZ1	1297,305,OE2,309,HD21,305-OE2-309-HD21
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1260,301,OE1,301,H,301-OE1-301-H	1300,305,OE2,306,HZ3,305-OE2-306-HZ3
1261,301,O,303,H,301-O-303-H	1301,305,OE1,119,HE22,305-OE1-119-HE22
1262,301,OE1,299,HD21,301-OE1-299-HD21	1302,305,OE1,303,HG,305-OE1-303-HG
1263,301,O,299,HD21,301-O-299-HD21	1303,305,OE1,259,HH,305-OE1-259-HH
1264,302,O,292,HZ1,302-O-292-HZ1	1304,305,OE2,263,HE21,305-OE2-263-HE21
1265,302,O,292,HZ3,302-O-292-HZ3	1305,305,OE1,306,HZ1,305-OE1-306-HZ1
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1269,303,OG,305,H,303-OG-305-H	1309,305,OE1,267,HZ2,305-OE1-267-HZ2
1270,303,O,307,H,303-O-307-H	1310,305,O,119,HE21,305-O-119-HE21
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1273,303,OG,306,HZ3,303-OG-306-HZ3	1313,305,OE2,309,HD22,305-OE2-309-HD22
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1329,306,O,134,HH12,306-O-134-HH12	1369,313,OD1,116,HG,313-OD1-116-HG
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1335,309,OD1,263,HE22,309-OD1-263-HE22	1375,314,O,317,H,314-O-317-H
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1337,309,OD1,134,HH22,309-OD1-134-HH22	1377,315,O,318,H,315-O-318-H
1338,309,OD1,134,HH21,309-OD1-134-HH21	1378,315,O,319,H,315-O-319-H
1339,309,ND2,119,HE22,309-ND2-119-HE22	1379,316,O,516,H17,316-O-516-H17
1340,309,O,312,H,309-O-312-H	1380,317,O,321,H,317-O-321-H
1341,309,OD1,119,HE22,309-OD1-119-HE22	1381,317,O,320,H,317-O-320-H
1342,309,OD1,259,HH,309-OD1-259-HH	1382,317,O,321,HG1,317-O-321-HG1
1343,309,O,313,H,309-O-313-H	1383,318,O,321,HG1,318-O-321-HG1
1344,309,OD1,121,H,309-OD1-121-H	1384,318,O,321,H,318-O-321-H
1345,309,OD1,134,HE,309-OD1-134-HE	1385,318,O,322,H,318-O-322-H
1346,309,O,309,HD22,309-O-309-HD22	1386,319,O,323,H,319-O-323-H
1347,309,OD1,134,HH12,309-OD1-134-HH12	1387,319,O,323,HG1,319-O-323-HG1
1348,310,O,314,H,310-O-314-H	1388,320,OD1,499,HZ3,320-OD1-499-HZ3
1349,310,N,134,HH21,310-N-134-HH21	1389,320,O,324,HG1,320-O-324-HG1
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1352,311,O,314,H,311-O-314-H	1392,320,OD1,499,HZ1,320-OD1-499-HZ1
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1354,312,O,316,H,312-O-316-H	1394,320,OD1,187,HH,320-OD1-187-HH
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1357,313,OD1,516,H10,313-OD1-516-H10	1397,320,OD1,497,HG1,320-OD1-497-HG1
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1487,346,OE2,342,HZ2,346-OE2-342-HZ2	1527,361,OD1,355,HH12,361-OD1-355-HH12
1488,346,OE1,342,HZ2,346-OE1-342-HZ2	1528,361,OD2,355,HH22,361-OD2-355-HH22
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1491,347,O,352,H,347-O-352-H	1531,361,OD2,355,HH12,361-OD2-355-HH12
1492,347,O,350,H,347-O-350-H	1532,362,NH1,465,HE1,362-NH1-465-HE1
1493,348,OD1,353,HE,348-OD1-353-HE	1533,362,O,365,H,362-O-365-H
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1502,350,O,355,HH21,350-O-355-HH21	1542,368,O,372,H,368-O-372-H
1503,351,O,354,HG,351-O-354-HG	1543,368,O,371,H,368-O-371-H
1504,352,O,476,HE21,352-O-476-HE21	1544,369,OE1,362,HE,369-OE1-362-HE
1505,352,O,476,HE22,352-O-476-HE22	1545,369,OE1,464,HH21,369-OE1-464-HH21
1506,353,O,477,HH22,353-O-477-HH22	1546,369,OE2,362,HH12,369-OE2-362-HH12
1507,353,O,477,HH12,353-O-477-HH12	1547,369,O,372,H,369-O-372-H
1508,354,O,354,HG,354-O-354-HG	1548,369,OE1,464,HE,369-OE1-464-HE
1509,355,O,476,HE21,355-O-476-HE21	1549,369,OE1,362,HH21,369-OE1-362-HH21
1510,355,O,476,HE22,355-O-476-HE22	1550,369,OE2,362,HE,369-OE2-362-HE
1511,356,O,355,HH11,356-O-355-HH11	1551,369,OE2,464,HE,369-OE2-464-HE
1512,357,O,356,HH11,357-O-356-HH11	1552,369,OE2,464,HH21,369-OE2-464-HH21
1513,358,O,361,H,358-O-361-H	1553,369,OE2,362,HH22,369-OE2-362-HH22
1514,359,O,465,HE1,359-O-465-HE1	1554,369,O,373,H,369-O-373-H
1515,359,O,362,HH11,359-O-362-HH11	1555,369,OE2,362,HH21,369-OE2-362-HH21
1516,359,O,362,H,359-O-362-H	1556,369,OE1,362,HH12,369-OE1-362-HH12
1517,360,O,363,H,360-O-363-H	1557,370,O,373,H,370-O-373-H
1518,360,OG,358,HE,360-OG-358-HE	1558,370,O,374,H,370-O-374-H
1519,360,O,363,HG,360-O-363-HG	1559,371,O,375,H,371-O-375-H
1520,361,O,364,H,361-O-364-H	1560,371,O,375,HG1,371-O-375-HG1
1521,361,OD1,358,HE,361-OD1-358-HE	1561,372,O,376,H,372-O-376-H
1522,361,OD2,358,H,361-OD2-358-H	1562,373,O,377,H,373-O-377-H
1523,361,OD1,355,HH22,361-OD1-355-HH22	1563,374,OE1,431,HH22,374-OE1-431-HH22
1524,361,O,365,H,361-O-365-H	1564,374,OE2,377,HH21,374-OE2-377-HH21
1525,361,OD1,360,HG,361-OD1-360-HG	1565,374,O,378,H,374-O-378-H

1566,374,OE2,431,HH22,374-OE2-431-HH22	1606,389,O,391,HG1,389-O-391-HG1
1567,374,OE2,431,HH11,374-OE2-431-HH11	1607,390,OG1,404,H,390-OG1-404-H
1568,374,OE2,377,HE,374-OE2-377-HE	1608,390,O,389,HG,390-O-389-HG
1569,374,OE2,431,HH12,374-OE2-431-HH12	1609,390,O,404,H,390-O-404-H
1570,374,OE2,428,H,374-OE2-428-H	1610,390,OG1,405,H,390-OG1-405-H
1571,374,OE1,431,HH11,374-OE1-431-HH11	1611,391,OG1,104,HZ1,391-OG1-104-HZ1
1572,374,OE1,428,H,374-OE1-428-H	1612,391,O,403,HZ3,391-O-403-HZ3
1573,374,OE1,377,HE,374-OE1-377-HE	1613,391,OG1,104,HZ2,391-OG1-104-HZ2
1574,374,OE1,431,HH12,374-OE1-431-HH12	1614,391,OG1,104,H,391-OG1-104-H
1575,374,OE1,377,HH21,374-OE1-377-HH21	1615,391,O,403,HZ2,391-O-403-HZ2
1576,375,O,379,H,375-O-379-H	1616,391,OG1,104,HZ3,391-OG1-104-HZ3
1577,375,O,379,HG,375-O-379-HG	1617,391,OG1,105,H,391-OG1-105-H
1578,375,OG1,329,HG,375-OG1-329-HG	1618,391,O,403,HZ1,391-O-403-HZ1
1579,376,O,380,H,376-O-380-H	1619,393,OD2,393,H,393-OD2-393-H
1580,377,O,380,HG,377-O-380-HG	1620,393,OD1,400,HH,393-OD1-400-HH
1581,377,O,416,HE2,377-O-416-HE2	1621,393,OD1,392,HH21,393-OD1-392-HH21
1582,377,O,380,H,377-O-380-H	1622,393,OD2,403,HZ3,393-OD2-403-HZ3
1583,378,ND1,332,HH,378-ND1-332-HH	1623,393,OD2,400,HH,393-OD2-400-HH
1584,378,O,416,HE2,378-O-416-HE2	1624,393,OD2,403,H,393-OD2-403-H
1585,379,OG,381,H,379-OG-381-H	1625,393,OD1,403,HZ1,393-OD1-403-HZ1
1586,379,O,412,HE1,379-O-412-HE1	1626,393,OD1,403,HZ3,393-OD1-403-HZ3
1587,380,OG,415,HD22,380-OG-415-HD22	1627,393,O,392,HE,393-O-392-HE
1588,380,O,382,H,380-O-382-H	1628,393,O,392,HH21,393-O-392-HH21
1589,380,O,380,HG,380-O-380-HG	1629,393,OD1,403,H,393-OD1-403-H
1590,380,OG,416,HE2,380-OG-416-HE2	1630,393,OD2,403,HZ1,393-OD2-403-HZ1
1591,381,O,498,H,381-O-498-H	1631,393,OD1,393,H,393-OD1-393-H
1592,382,O,411,HE21,382-O-411-HE21	1632,393,OD1,403,HZ2,393-OD1-403-HZ2
1593,383,O,412,H,383-O-412-H	1633,393,OD2,392,HH21,393-OD2-392-HH21
1594,383,O,411,H,383-O-411-H	1634,393,OD2,403,HZ2,393-OD2-403-HZ2
1595,384,O,230,HG,384-O-230-HG	1635,394,OG1,99,HE22,394-OG1-99-HE22
1596,385,O,230,HG,385-O-230-HG	1636,394,O,395,HG,394-O-395-HG
1597,386,O,385,HG1,386-O-385-HG1	1637,394,OG1,395,H,394-OG1-395-H
1598,386,O,106,HH11,386-O-106-HH11	1638,394,OG1,99,HE21,394-OG1-99-HE21
1599,386,O,106,HH12,386-O-106-HH12	1639,394,O,401,H,394-O-401-H
1600,387,O,106,HH11,387-O-106-HH11	1640,395,O,99,HE21,395-O-99-HE21
1601,388,O,407,H,388-O-407-H	1641,395,O,99,HE22,395-O-99-HE22
1602,388,NE2,385,HG1,388-NE2-385-HG1	1642,396,O,398,H,396-O-398-H
1603,388,O,389,HG,388-O-389-HG	1643,396,O,399,H,396-O-399-H
1604,389,O,105,H,389-O-105-H	1644,397,O,38,HZ1,397-O-38-HZ1
1605,389,O,391,H,389-O-391-H	1645,397,O,38,HZ2,397-O-38-HZ2

1646,397,O,38,HZ3,397-O-38-HZ3	1686,413,OE1,410,HD22,413-OE1-410-HD22
1647,397,O,399,H,397-O-399-H	1687,413,O,413,HE21,413-O-413-HE21
1648,398,O,38,H,398-O-38-H	1688,413,NE2,68,HE21,413-NE2-68-HE21
1649,398,O,38,HZ3,398-O-38-HZ3	1689,413,OE1,68,HE22,413-OE1-68-HE22
1650,398,O,38,HZ1,398-O-38-HZ1	1690,413,O,416,H,413-O-416-H
1651,398,O,38,HZ2,398-O-38-HZ2	1691,414,O,421,HE1,414-O-421-HE1
1652,399,O,396,H,399-O-396-H	1692,414,O,417,H,414-O-417-H
1653,399,O,395,HG,399-O-395-HG	1693,415,OD1,448,H,415-OD1-448-H
1654,400,O,39,HD22,400-O-39-HD22	1694,415,O,377,HH11,415-O-377-HH11
1655,401,O,394,H,401-O-394-H	1695,416,O,418,HE21,416-O-418-HE21
1656,402,O,405,H,402-O-405-H	1696,416,ND1,377,HH12,416-ND1-377-HH12
1657,402,O,390,HG1,402-O-390-HG1	1697,417,OD1,68,HE22,417-OD1-68-HE22
1658,403,O,405,HH11,403-O-405-HH11	1698,417,OD1,418,HE22,417-OD1-418-HE22
1659,404,O,389,HG,404-O-389-HG	1699,417,OD2,413,HE21,417-OD2-413-HE21
1660,404,O,405,HH11,404-O-405-HH11	1700,417,OD1,413,HE22,417-OD1-413-HE22
1661,405,O,389,HG,405-O-389-HG	1701,417,OD1,419,HZ1,417-OD1-419-HZ1
1662,405,O,390,H,405-O-390-H	1702,417,OD1,413,HE21,417-OD1-413-HE21
1663,405,O,390,HG1,405-O-390-HG1	1703,417,OD2,413,HE22,417-OD2-413-HE22
1664,406,O,84,H,406-O-84-H	1704,417,OD2,68,HE22,417-OD2-68-HE22
1665,407,O,388,H,407-O-388-H	1705,417,O,420,H,417-O-420-H
1666,408,O,86,H,408-O-86-H	1706,417,OD1,420,H,417-OD1-420-H
1667,409,O,411,H,409-O-411-H	1707,417,OD1,419,HZ2,417-OD1-419-HZ2
1668,409,O,385,H,409-O-385-H	1708,417,OD2,419,HZ2,417-OD2-419-HZ2
1669,410,OD1,413,H,410-OD1-413-H	1709,417,OD2,420,H,417-OD2-420-H
1670,410,OD1,412,H,410-OD1-412-H	1710,417,OD1,419,H,417-OD1-419-H
1671,410,OD1,411,H,410-OD1-411-H	1711,417,OD1,419,HZ3,417-OD1-419-HZ3
1672,410,O,413,H,410-O-413-H	1712,417,OD2,419,HZ1,417-OD2-419-HZ1
1673,411,OE1,451,H,411-OE1-451-H	1713,417,O,421,H,417-O-421-H
1674,411,O,415,HD22,411-O-415-HD22	1714,417,OD2,419,H,417-OD2-419-H
1675,411,O,414,H,411-O-414-H	1715,417,OD2,419,HZ3,417-OD2-419-HZ3
1676,411,O,415,H,411-O-415-H	1716,418,OE1,418,H,418-OE1-418-H
1677,412,O,415,H,412-O-415-H	1717,418,OE1,65,HH12,418-OE1-65-HH12
1678,412,O,416,H,412-O-416-H	1718,418,OE1,419,HZ2,418-OE1-419-HZ2
1679,413,OE1,87,HG,413-OE1-87-HG	1719,418,OE1,65,HH22,418-OE1-65-HH22
1680,413,O,417,H,413-O-417-H	1720,418,OE1,413,HE22,418-OE1-413-HE22
1681,413,OE1,88,H,413-OE1-88-H	1721,418,OE1,68,HE22,418-OE1-68-HE22
1682,413,NE2,68,HE22,413-NE2-68-HE22	1722,418,OE1,423,H,418-OE1-423-H
1683,413,OE1,64,HG,413-OE1-64-HG	1723,418,O,422,H,418-O-422-H
1684,413,OE1,68,HE21,413-OE1-68-HE21	1724,418,OE1,68,HE21,418-OE1-68-HE21
1685,413,OE1,67,HG,413-OE1-67-HG	1725,418,O,418,HE21,418-O-418-HE21

1726,420,O,446,HZ2,420-O-446-HZ2	1766,430,OE1,367,HH,430-OE1-367-HH
1727,420,O,446,HZ1,420-O-446-HZ1	1767,430,OE2,342,HZ2,430-OE2-342-HZ2
1728,420,O,446,HZ3,420-O-446-HZ3	1768,430,OE2,342,HZ3,430-OE2-342-HZ3
1729,421,O,431,HE,421-O-431-HE	1769,430,OE1,430,H,430-OE1-430-H
1730,421,O,431,HH21,421-O-431-HH21	1770,430,OE2,338,HH22,430-OE2-338-HH22
1731,422,O,431,HH21,422-O-431-HH21	1771,430,OE1,338,HH22,430-OE1-338-HH22
1732,422,O,431,HE,422-O-431-HE	1772,430,O,433,H,430-O-433-H
1733,423,O,431,HH21,423-O-431-HH21	1773,430,OE2,338,HH12,430-OE2-338-HH12
1734,423,O,426,H,423-O-426-H	1774,431,O,433,H,431-O-433-H
1735,423,OD1,418,HE22,423-OD1-418-HE22	1775,432,O,440,H,432-O-440-H
1736,423,OD1,426,H,423-OD1-426-H	1776,434,O,437,H,434-O-437-H
1737,423,O,423,HD22,423-O-423-HD22	1777,434,OG1,438,H,434-OG1-438-H
1738,423,O,431,HH22,423-O-431-HH22	1778,434,OG1,436,H,434-OG1-436-H
1739,424,O,377,HH12,424-O-377-HH12	1779,434,OG1,437,H,434-OG1-437-H
1740,424,O,377,HH22,424-O-377-HH22	1780,435,O,437,H,435-O-437-H
1741,425,O,425,HG,425-O-425-HG	1781,436,OD2,436,H,436-OD2-436-H
1742,425,O,378,HE2,425-O-378-HE2	1782,436,OD1,434,HG1,436-OD1-434-HG1
1743,426,O,431,HH22,426-O-431-HH22	1783,436,OD1,438,H,436-OD1-438-H
1744,426,OE2,423,HD21,426-OE2-423-HD21	1784,436,OD1,436,H,436-OD1-436-H
1745,426,OE1,423,HD22,426-OE1-423-HD22	1785,436,O,438,H,436-O-438-H
1746,426,OE1,425,HG,426-OE1-425-HG	1786,436,OD2,434,HG1,436-OD2-434-HG1
1747,426,OE1,427,H,426-OE1-427-H	1787,436,OD2,438,H,436-OD2-438-H
1748,426,OE2,425,HG,426-OE2-425-HG	1788,438,O,434,HG1,438-O-434-HG1
1749,426,O,431,HH12,426-O-431-HH12	1789,438,O,434,H,438-O-434-H
1750,426,OE2,423,HD22,426-OE2-423-HD22	1790,439,O,441,HZ3,439-O-441-HZ3
1751,426,O,431,HH21,426-O-431-HH21	1791,439,O,441,HZ2,439-O-441-HZ2
1752,426,OE1,423,HD21,426-OE1-423-HD21	1792,439,O,441,HZ1,439-O-441-HZ1
1753,426,OE2,427,H,426-OE2-427-H	1793,439,O,441,H,439-O-441-H
1754,427,O,338,HH21,427-O-338-HH21	1794,440,O,444,H,440-O-444-H
1755,428,O,431,H,428-O-431-H	1795,440,O,444,HG,440-O-444-HG
1756,428,O,431,HH11,428-O-431-HH11	1796,440,OD1,443,H,440-OD1-443-H
1757,429,O,432,H,429-O-432-H	1797,440,O,443,H,440-O-443-H
1758,429,O,433,H,429-O-433-H	1798,440,OD2,443,H,440-OD2-443-H
1759,430,OE2,342,HZ1,430-OE2-342-HZ1	1799,440,OD1,442,H,440-OD1-442-H
1760,430,OE2,430,H,430-OE2-430-H	1800,440,OD2,442,H,440-OD2-442-H
1761,430,OE1,338,HH12,430-OE1-338-HH12	1801,440,OD1,444,HG,440-OD1-444-HG
1762,430,OE1,342,HZ1,430-OE1-342-HZ1	1802,440,O,442,H,440-O-442-H
1763,430,OE1,342,HZ2,430-OE1-342-HZ2	1803,440,OD1,444,H,440-OD1-444-H
1764,430,OE1,342,HZ3,430-OE1-342-HZ3	1804,441,O,445,H,441-O-445-H
1765,430,OE2,367,HH,430-OE2-367-HH	1805,441,O,444,HG,441-O-444-HG

1806,442,O,446,H,442-O-446-H	1846,453,O,456,HZ1,453-O-456-HZ1
1807,442,O,446,HZ2,442-O-446-HZ2	1847,453,O,456,HZ2,453-O-456-HZ2
1808,442,O,446,HZ3,442-O-446-HZ3	1848,453,O,456,H,453-O-456-H
1809,442,O,445,H,442-O-445-H	1849,453,O,455,H,453-O-455-H
1810,442,O,446,HZ1,442-O-446-HZ1	1850,453,O,456,HZ3,453-O-456-HZ3
1811,443,O,447,H,443-O-447-H	1851,454,O,456,H,454-O-456-H
1812,443,O,446,H,443-O-446-H	1852,454,O,135,HH12,454-O-135-HH12
1813,444,OG,445,H,444-OG-445-H	1853,454,O,135,HH22,454-O-135-HH22
1814,444,O,447,H,444-O-447-H	1854,454,O,135,HH21,454-O-135-HH21
1815,445,OE2,446,HZ2,445-OE2-446-HZ2	1855,455,O,452,H,455-O-452-H
1816,445,OE2,93,HH12,445-OE2-93-HH12	1856,455,O,135,HH12,455-O-135-HH12
1817,445,OE2,93,HH21,445-OE2-93-HH21	1857,456,O,135,HH12,456-O-135-HH12
1818,445,OE1,93,HH21,445-OE1-93-HH21	1858,456,O,135,HH22,456-O-135-HH22
1819,445,OE1,464,HH22,445-OE1-464-HH22	1859,456,O,135,HH21,456-O-135-HH21
1820,445,OE2,464,HH12,445-OE2-464-HH12	1860,457,O,456,HZ2,457-O-456-HZ2
1821,445,OE2,93,HH22,445-OE2-93-HH22	1861,457,O,456,HZ1,457-O-456-HZ1
1822,445,OE2,446,HZ3,445-OE2-446-HZ3	1862,457,O,460,H,457-O-460-H
1823,445,OE1,464,HH12,445-OE1-464-HH12	1863,457,O,456,HZ3,457-O-456-HZ3
1824,445,OE2,464,HH22,445-OE2-464-HH22	1864,458,O,461,H,458-O-461-H
1825,445,OE1,93,HE,445-OE1-93-HE	1865,458,O,461,HG1,458-O-461-HG1
1826,445,OE1,446,HZ3,445-OE1-446-HZ3	1866,458,O,139,HE21,458-O-139-HE21
1827,445,OE1,444,HG,445-OE1-444-HG	1867,458,O,139,HE22,458-O-139-HE22
1828,445,OE2,446,HZ1,445-OE2-446-HZ1	1868,459,O,463,H,459-O-463-H
1829,445,OE2,444,HG,445-OE2-444-HG	1869,459,O,462,H,459-O-462-H
1830,445,OE1,446,HZ2,445-OE1-446-HZ2	1870,460,OE2,456,HZ3,460-OE2-456-HZ3
1831,445,OE1,446,HZ1,445-OE1-446-HZ1	1871,460,OE2,464,HH21,460-OE2-464-HH21
1832,445,OE1,441,HZ1,445-OE1-441-HZ1	1872,460,O,464,HE,460-O-464-HE
1833,445,O,93,HH22,445-O-93-HH22	1873,460,OE1,461,HG1,460-OE1-461-HG1
1834,445,OE2,456,HZ2,445-OE2-456-HZ2	1874,460,O,464,HH11,460-O-464-HH11
1835,445,OE1,93,HH22,445-OE1-93-HH22	1875,460,OE2,464,HH12,460-OE2-464-HH12
1836,445,O,93,HH21,445-O-93-HH21	1876,460,OE2,461,HG1,460-OE2-461-HG1
1837,445,OE1,93,HH12,445-OE1-93-HH12	1877,460,OE1,464,HH11,460-OE1-464-HH11
1838,446,O,448,H,446-O-448-H	1878,460,OE1,456,HZ2,460-OE1-456-HZ2
1839,448,O,415,HD21,448-O-415-HD21	1879,460,OE1,456,HZ3,460-OE1-456-HZ3
1840,449,O,411,HE22,449-O-411-HE22	1880,460,OE2,464,HH22,460-OE2-464-HH22
1841,450,O,457,H,450-O-457-H	1881,460,OE2,456,HZ2,460-OE2-456-HZ2
1842,451,O,456,HZ1,451-O-456-HZ1	1882,460,OE1,143,HZ1,460-OE1-143-HZ1
1843,451,O,456,HZ3,451-O-456-HZ3	1883,460,OE1,143,HZ2,460-OE1-143-HZ2
1844,452,O,456,H,452-O-456-H	1884,460,OE1,464,HH22,460-OE1-464-HH22
1845,452,O,455,H,452-O-455-H	1885,460,OE1,461,H,460-OE1-461-H

1886,460,OE2,456,HZ1,460-OE2-456-HZ1	1926,476,OE1,477,HH21,476-OE1-477-HH21
1887,460,OE1,464,HH12,460-OE1-464-HH12	1927,476,O,511,HH21,476-O-511-HH21
1888,460,OE1,456,HZ1,460-OE1-456-HZ1	1928,477,O,511,H,477-O-511-H
1889,460,O,464,H,460-O-464-H	1929,478,O,344,HE22,478-O-344-HE22
1890,460,OE2,461,H,460-OE2-461-H	1930,478,O,344,HE21,478-O-344-HE21
1891,460,OE2,143,HZ1,460-OE2-143-HZ1	1931,479,OE1,512,HG,479-OE1-512-HG
1892,460,OE2,464,HH11,460-OE2-464-HH11	1932,479,OE1,512,H,479-OE1-512-H
1893,461,O,465,H,461-O-465-H	1933,479,OE1,341,HH22,479-OE1-341-HH22
1894,461,O,464,H,461-O-464-H	1934,479,O,509,H,479-O-509-H
1895,462,O,466,H,462-O-466-H	1935,479,OE2,512,HG,479-OE2-512-HG
1896,462,O,464,H,462-O-464-H	1936,479,OE2,341,HH12,479-OE2-341-HH12
1897,462,O,465,H,462-O-465-H	1937,479,OE1,344,HE22,479-OE1-344-HE22
1898,463,O,467,H,463-O-467-H	1938,479,OE1,341,HH12,479-OE1-341-HH12
1899,464,O,362,HH21,464-O-362-HH21	1939,479,OE2,341,HH22,479-OE2-341-HH22
1900,464,O,362,HH12,464-O-362-HH12	1940,479,OE1,509,HE21,479-OE1-509-HE21
1901,464,O,362,HH22,464-O-362-HH22	1941,479,OE2,341,HH11,479-OE2-341-HH11
1902,464,O,468,H,464-O-468-H	1942,479,O,509,HE21,479-O-509-HE21
1903,465,O,468,H,465-O-468-H	1943,479,OE2,509,HE21,479-OE2-509-HE21
1904,465,O,469,H,465-O-469-H	1944,479,OE2,341,HE,479-OE2-341-HE
1905,466,O,470,H,466-O-470-H	1945,479,OE1,341,HH11,479-OE1-341-HH11
1906,466,O,469,H,466-O-469-H	1946,479,OE1,341,HE,479-OE1-341-HE
1907,467,O,471,H,467-O-471-H	1947,479,OE2,341,HH21,479-OE2-341-HH21
1908,468,O,472,H,468-O-472-H	1948,479,OE1,341,HH21,479-OE1-341-HH21
1909,468,O,471,H,468-O-471-H	1949,479,OE2,512,H,479-OE2-512-H
1910,469,O,473,H,469-O-473-H	1950,479,OE2,344,HE22,479-OE2-344-HE22
1911,470,O,474,H,470-O-474-H	1951,480,O,340,HE22,480-O-340-HE22
1912,471,O,475,H,471-O-475-H	1952,480,O,481,HG,480-O-481-HG
1913,472,O,476,H,472-O-476-H	1953,481,O,507,H,481-O-507-H
1914,473,O,477,H,473-O-477-H	1954,481,OG,507,HE21,481-OG-507-HE21
1915,473,O,476,H,473-O-476-H	1955,481,OG,509,HE22,481-OG-509-HE22
1916,473,O,477,HH21,473-O-477-HH21	1956,481,OG,482,H,481-OG-482-H
1917,473,O,477,HE,473-O-477-HE	1957,482,O,481,HG,482-O-481-HG
1918,474,O,477,H,474-O-477-H	1958,483,O,485,H,483-O-485-H
1919,474,O,478,H,474-O-478-H	1959,483,O,486,H,483-O-486-H
1920,475,O,511,HH11,475-O-511-HH11	1960,484,O,487,HZ1,484-O-487-HZ1
1921,475,O,344,HE21,475-O-344-HE21	1961,484,O,486,H,484-O-486-H
1922,475,O,511,HE,475-O-511-HE	1962,484,O,487,HZ3,484-O-487-HZ3
1923,475,O,511,HH21,475-O-511-HH21	1963,485,O,487,HZ2,485-O-487-HZ2
1924,476,O,353,HE,476-O-353-HE	1964,485,O,487,HZ1,485-O-487-HZ1
1925,476,O,511,HE,476-O-511-HE	1965,485,O,487,HZ3,485-O-487-HZ3

1966,486,O,505,HE2,486-O-505-HE2	2006,500,NE2,327,HG,500-NE2-327-HG
1967,486,O,488,H,486-O-488-H	2007,500,O,502,H,500-O-502-H
1968,487,O,489,H,487-O-489-H	2008,500,O,500,HD1,500-O-500-HD1
1969,487,O,505,HE2,487-O-505-HE2	2009,501,O,503,H,501-O-503-H
1970,488,O,487,HZ3,488-O-487-HZ3	2010,501,O,500,HD1,501-O-500-HD1
1971,488,O,487,HZ1,488-O-487-HZ1	2011,502,O,487,HZ1,502-O-487-HZ1
1972,488,O,487,HZ2,488-O-487-HZ2	2012,502,O,487,HZ3,502-O-487-HZ3
1973,489,OD2,487,HZ2,489-OD2-487-HZ2	2013,503,O,505,H,503-O-505-H
1974,489,OD2,490,H,489-OD2-490-H	2014,503,O,185,HD22,503-O-185-HD22
1975,489,OD1,487,HZ1,489-OD1-487-HZ1	2015,504,OE1,185,HD22,504-OE1-185-HD22
1976,489,OD2,487,HZ1,489-OD2-487-HZ1	2016,504,OE1,188,HE,504-OE1-188-HE
1977,489,OD1,487,HZ3,489-OD1-487-HZ3	2017,504,OE2,185,H,504-OE2-185-H
1978,489,OD1,490,H,489-OD1-490-H	2018,504,OE1,188,HH21,504-OE1-188-HH21
1979,489,O,501,H,489-O-501-H	2019,504,OE2,504,H,504-OE2-504-H
1980,489,O,491,H,489-O-491-H	2020,504,OE1,504,H,504-OE1-504-H
1981,489,OD2,491,H,489-OD2-491-H	2021,504,OE2,188,HH21,504-OE2-188-HH21
1982,489,OD1,487,HZ2,489-OD1-487-HZ2	2022,504,OE2,188,HH11,504-OE2-188-HH11
1983,489,O,500,HD1,489-O-500-HD1	2023,504,OE2,188,HE,504-OE2-188-HE
1984,489,OD2,491,HG1,489-OD2-491-HG1	2024,504,OE1,188,HH11,504-OE1-188-HH11
1985,489,OD1,491,HG1,489-OD1-491-HG1	2025,504,OE2,503,H,504-OE2-503-H
1986,489,OD1,491,H,489-OD1-491-H	2026,504,OE1,183,HE2,504-OE1-183-HE2
1987,490,O,501,H,490-O-501-H	2027,504,OE2,188,HH12,504-OE2-188-HH12
1988,491,O,501,H,491-O-501-H	2028,504,OE2,185,HD22,504-OE2-185-HD22
1989,492,O,58,HD21,492-O-58-HD21	2029,504,OE2,188,HH22,504-OE2-188-HH22
1990,493,O,499,H,493-O-499-H	2030,504,OE1,188,HH12,504-OE1-188-HH12
1991,494,OH,230,HG,494-OH-230-HG	2031,504,OE1,185,H,504-OE1-185-H
1992,494,O,57,HZ2,494-O-57-HZ2	2032,504,OE1,188,HH22,504-OE1-188-HH22
1993,494,OH,230,H,494-OH-230-H	2033,505,ND1,504,H,505-ND1-504-H
1994,494,O,57,HZ3,494-O-57-HZ3	2034,505,O,507,HE21,505-O-507-HE21
1995,497,OG1,499,HZ1,497-OG1-499-HZ1	2035,506,O,184,H,506-O-184-H
1996,497,OG1,499,HZ2,497-OG1-499-HZ2	2036,507,NE2,183,HE2,507-NE2-183-HE2
1997,497,O,499,HZ3,497-O-499-HZ3	2037,507,OE1,509,HE22,507-OE1-509-HE22
1998,497,O,499,HZ1,497-O-499-HZ1	2038,507,O,481,H,507-O-481-H
1999,497,OG1,499,HZ3,497-OG1-499-HZ3	2039,507,OE1,481,HG,507-OE1-481-HG
2000,497,O,495,H,497-O-495-H	2040,507,OE1,183,HE2,507-OE1-183-HE2
2001,497,O,499,HZ2,497-O-499-HZ2	2041,507,OE1,509,HE21,507-OE1-509-HE21
2002,497,O,497,HG1,497-O-497-HG1	2042,508,O,509,HE21,508-O-509-HE21
2003,498,O,328,HE1,498-O-328-HE1	2043,509,OE1,507,HE22,509-OE1-507-HE22
2004,499,O,493,H,499-O-493-H	2044,509,OE1,481,HG,509-OE1-481-HG
2005,500,ND1,501,H,500-ND1-501-H	2045,509,O,479,H,509-O-479-H

2046,509,OE1,507,HE21,509-OE1-507-HE21
2047,509,OE1,510,H,509-OE1-510-H
2048,509,O,511,H,509-O-511-H
2049,510,O,509,HE21,510-O-509-HE21
2050,510,O,512,HG,510-O-512-HG
2051,511,O,353,HH12,511-O-353-HH12
2052,511,O,353,HH22,511-O-353-HH22
2053,511,O,353,HH11,511-O-353-HH11
2054,511,O,512,HG,511-O-512-HG
2055,512,O,512,HG,512-O-512-HG
2056,512,O,353,HH11,512-O-353-HH11
2057,512,O,353,HH12,512-O-353-HH12
2058,512,O,511,HH11,512-O-511-HH11
2059,512,OXT,512,HG,512-OXT-512-HG
2060,512,OXT,353,HH22,512-OXT-353-HH22
2061,512,OXT,353,HH11,512-OXT-353-HH11
2062,512,OXT,353,HH12,512-OXT-353-HH12
2063,512,O,353,HH22,512-O-353-HH22
2064,512,O,341,HH12,512-O-341-HH12
2065,515,O1A,106,HH22,515-O1A-106-HH22
2066,515,O1D,135,HE,515-O1D-135-HE
2067,515,O2A,386,H,515-O2A-386-H
2068,515,O2D,455,HH11,515-O2D-455-HH11
2069,515,O1A,386,H,515-O1A-386-H
2070,515,O2D,106,HH21,515-O2D-106-HH21
2071,515,O2A,106,HH22,515-O2A-106-HH22
2072,515,O2A,106,HH12,515-O2A-106-HH12
2073,515,O1D,455,HH11,515-O1D-455-HH11
2074,515,O2A,455,HH11,515-O2A-455-HH11
2075,515,O2D,135,HH21,515-O2D-135-HH21
2076,515,O1D,455,HH12,515-O1D-455-HH12
2077,515,O1A,106,HH12,515-O1A-106-HH12
2078,515,O2D,135,HH11,515-O2D-135-HH11
2079,515,O1D,131,HE1,515-O1D-131-HE1
2080,515,O1D,106,HH21,515-O1D-106-HH21
2081,515,O2D,135,HE,515-O2D-135-HE
2082,515,O1D,135,HH21,515-O1D-135-HH21
2083,515,O1D,135,HH11,515-O1D-135-HH11
2084,516,O15,222,HD22,516-O15-222-HD22
2085,516,O18,122,HG,516-O18-122-HG

2086,516,O15,255,HD22,516-O15-255-HD22

Model III

RES_DONOR,ATOM_DONOR,RES_ACCEPTOR,ATOM_ACCEPTOR,
TAG

1,37,O,39,H,37-O-39-H
2,37,O,39,HD22,37-O-39-HD22
3,38,O,400,H,38-O-400-H
4,39,O,38,HZ1,39-O-38-HZ1
5,39,O,39,HD22,39-O-39-HD22
6,39,O,38,HZ2,39-O-38-HZ2
7,39,OD1,39,H,39-OD1-39-H
8,39,ND2,75,HE22,39-ND2-75-HE22
9,39,N,39,HD22,39-N-39-HD22
10,39,OD1,405,HH21,39-OD1-405-HH21
11,39,OD1,405,HH22,39-OD1-405-HH22
12,39,OD1,75,HE22,39-OD1-75-HE22
13,40,O,75,HE21,40-O-75-HE21
14,40,O,39,HD22,40-O-39-HD22
15,41,O,75,H,41-O-75-H
16,43,O,51,HE2,43-O-51-HE2
17,44,O,51,HE2,44-O-51-HE2
18,45,O,77,HH12,45-O-77-HH12
19,45,O,77,HH21,45-O-77-HH21
20,45,O,77,HH11,45-O-77-HH11
21,45,O,77,HE,45-O-77-HE
22,45,O,77,HH22,45-O-77-HH22
23,46,O,77,HE,46-O-77-HE
24,46,O,50,H,46-O-50-H
25,46,O,48,H,46-O-48-H
26,46,O,77,HH21,46-O-77-HH21
27,46,O,77,HH22,46-O-77-HH22
28,46,O,49,H,46-O-49-H
29,46,O,77,HH12,46-O-77-HH12
30,46,O,77,HH11,46-O-77-HH11
31,47,O,80,HG,47-O-80-HG
32,47,O,77,HH21,47-O-77-HH21
33,47,O,77,HH11,47-O-77-HH11
34,47,O,77,HH12,47-O-77-HH12
35,47,O,77,HE,47-O-77-HE
36,47,O,77,HH22,47-O-77-HH22

37,48,O,77,HH21,48-O-77-HH21	77,62,O,65,H,62-O-65-H
38,48,O,80,HG,48-O-80-HG	78,63,O,410,HD21,63-O-410-HD21
39,48,O,77,HH12,48-O-77-HH12	79,63,O,67,H,63-O-67-H
40,49,O,79,H,49-O-79-H	80,63,O,410,HD22,63-O-410-HD22
41,49,O,52,H,49-O-52-H	81,63,O,67,HG,63-O-67-HG
42,50,O,52,H,50-O-52-H	82,64,OG,68,HE21,64-OG-68-HE21
43,50,O,46,H,50-O-46-H	83,64,O,67,HG,64-O-67-HG
44,51,O,55,H,51-O-55-H	84,64,OG,410,HD21,64-OG-410-HD21
45,51,O,54,H,51-O-54-H	85,64,O,67,H,64-O-67-H
46,51,O,54,HG1,51-O-54-HG1	86,64,OG,68,HE22,64-OG-68-HE22
47,51,O,53,H,51-O-53-H	87,64,O,68,HE21,64-O-68-HE21
48,51,ND1,51,H,51-ND1-51-H	88,64,O,413,HE22,64-O-413-HE22
49,51,ND1,77,H,51-ND1-77-H	89,64,OG,65,HH21,64-OG-65-HH21
50,52,O,55,H,52-O-55-H	90,64,O,68,H,64-O-68-H
51,52,O,56,H,52-O-56-H	91,64,OG,413,HE22,64-OG-413-HE22
52,53,O,56,H,53-O-56-H	92,65,O,69,H,65-O-69-H
53,54,OG1,46,HE1,54-OG1-46-HE1	93,65,O,69,HE21,65-O-69-HE21
54,54,O,54,HG1,54-O-54-HG1	94,65,O,68,H,65-O-68-H
55,54,O,56,H,54-O-56-H	95,65,NH1,68,HE22,65-NH1-68-HE22
56,54,O,65,HH22,54-O-65-HH22	96,65,O,65,HH11,65-O-65-HH11
57,55,O,58,H,55-O-58-H	97,65,O,65,HE,65-O-65-HE
58,55,O,58,HD22,55-O-58-HD22	98,65,O,68,HE21,65-O-68-HE21
59,57,O,57,HZ2,57-O-57-HZ2	99,65,O,69,HE22,65-O-69-HE22
60,57,O,57,HZ3,57-O-57-HZ3	100,66,O,69,H,66-O-69-H
61,57,O,57,HZ1,57-O-57-HZ1	101,66,O,70,H,66-O-70-H
62,57,O,58,HD22,57-O-58-HD22	102,67,OG,413,HE21,67-OG-413-HE21
63,58,O,58,HD22,58-O-58-HD22	103,67,O,70,H,67-O-70-H
64,58,O,61,H,58-O-61-H	104,67,OG,87,HG,67-OG-87-HG
65,58,OD1,57,HZ2,58-OD1-57-HZ2	105,67,O,71,H,67-O-71-H
66,58,OD1,65,HH22,58-OD1-65-HH22	106,67,OG,413,HE22,67-OG-413-HE22
67,58,O,62,H,58-O-62-H	107,67,O,69,H,67-O-69-H
68,59,O,63,H,59-O-63-H	108,67,OG,410,HD22,67-OG-410-HD22
69,60,O,410,HD21,60-O-410-HD21	109,67,OG,68,HE21,67-OG-68-HE21
70,60,ND1,60,H,60-ND1-60-H	110,68,O,69,HE21,68-O-69-HE21
71,60,O,64,H,60-O-64-H	111,68,O,68,HE21,68-O-68-HE21
72,60,O,64,HG,60-O-64-HG	112,68,OE1,65,HH22,68-OE1-65-HH22
73,61,O,64,HG,61-O-64-HG	113,68,OE1,65,HH21,68-OE1-65-HH21
74,61,O,64,H,61-O-64-H	114,68,OE1,413,HE22,68-OE1-413-HE22
75,61,O,65,H,61-O-65-H	115,68,OE1,418,HE22,68-OE1-418-HE22
76,62,O,66,H,62-O-66-H	116,68,OE1,69,HE21,68-OE1-69-HE21

117,68,OE1,419,HZ2,68-OE1-419-HZ2	157,78,O,81,HG1,78-O-81-HG1
118,68,NE2,413,HE22,68-NE2-413-HE22	158,78,O,80,H,78-O-80-H
119,68,OE1,419,HZ1,68-OE1-419-HZ1	159,79,O,77,HH11,79-O-77-HH11
120,68,OE1,65,HH11,68-OE1-65-HH11	160,79,O,81,H,79-O-81-H
121,68,OE1,65,HE,68-OE1-65-HE	161,79,O,77,HH21,79-O-77-HH21
122,68,OE1,419,HZ3,68-OE1-419-HZ3	162,79,O,77,HE,79-O-77-HE
123,68,OE1,65,HH12,68-OE1-65-HH12	163,80,OG,81,HG1,80-OG-81-HG1
124,69,OE1,65,HH22,69-OE1-65-HH22	164,80,O,80,HG,80-O-80-HG
125,69,OE1,70,HH,69-OE1-70-HH	165,80,O,77,HH11,80-O-77-HH11
126,69,OE1,65,HH21,69-OE1-65-HH21	166,80,O,77,HE,80-O-77-HE
127,69,OE1,68,HE21,69-OE1-68-HE21	167,80,O,77,HH21,80-O-77-HH21
128,69,O,69,HE21,69-O-69-HE21	168,80,O,77,HH12,80-O-77-HH12
129,69,OE1,65,HH12,69-OE1-65-HH12	169,80,OG,77,HH21,80-OG-77-HH21
130,70,OH,69,HE21,70-OH-69-HE21	170,81,O,78,H,81-O-78-H
131,71,O,67,HG,71-O-67-HG	171,82,O,405,HH11,82-O-405-HH11
132,71,O,87,HG,71-O-87-HG	172,83,O,76,H,83-O-76-H
133,72,OD1,397,HZ3,72-OD1-397-HZ3	173,83,O,75,HE21,83-O-75-HE21
134,72,OD1,72,H,72-OD1-72-H	174,84,O,408,H,84-O-408-H
135,72,OD2,397,HZ3,72-OD2-397-HZ3	175,85,O,74,H,85-O-74-H
136,72,OD2,397,HZ1,72-OD2-397-HZ1	176,85,O,87,HG,85-O-87-HG
137,72,OD2,397,HZ2,72-OD2-397-HZ2	177,86,O,410,H,86-O-410-H
138,72,OD2,72,H,72-OD2-72-H	178,86,O,87,HG,86-O-87-HG
139,72,O,87,H,72-O-87-H	179,87,OG,410,HD22,87-OG-410-HD22
140,72,O,88,H,72-O-88-H	180,87,O,87,HG,87-O-87-HG
141,72,OD1,91,HG1,72-OD1-91-HG1	181,87,OG,67,HG,87-OG-67-HG
142,72,OD1,397,HZ1,72-OD1-397-HZ1	182,87,O,413,HE21,87-O-413-HE21
143,72,OD1,397,HZ2,72-OD1-397-HZ2	183,88,O,92,H,88-O-92-H
144,72,O,87,HG,72-O-87-HG	184,88,O,91,H,88-O-91-H
145,72,OD2,91,HG1,72-OD2-91-HG1	185,89,O,92,H,89-O-92-H
146,74,O,85,H,74-O-85-H	186,89,O,93,HH11,89-O-93-HH11
147,75,OE1,405,HH21,75-OE1-405-HH21	187,89,O,93,HE,89-O-93-HE
148,75,O,75,HE21,75-O-75-HE21	188,89,O,93,H,89-O-93-H
149,75,NE2,39,HD21,75-NE2-39-HD21	189,90,OD1,91,HG1,90-OD1-91-HG1
150,75,OE1,39,HD22,75-OE1-39-HD22	190,90,OD2,93,HE,90-OD2-93-HE
151,75,OE1,405,HE,75-OE1-405-HE	191,90,OD2,93,HH12,90-OD2-93-HH12
152,75,OE1,39,HD21,75-OE1-39-HD21	192,90,OD2,93,HH21,90-OD2-93-HH21
153,76,O,75,HE21,76-O-75-HE21	193,90,OD2,93,HH22,90-OD2-93-HH22
154,76,O,83,H,76-O-83-H	194,90,OD1,93,HH12,90-OD1-93-HH12
155,77,O,51,H,77-O-51-H	195,90,OD2,397,HZ1,90-OD2-397-HZ1
156,78,O,81,H,78-O-81-H	196,90,OD1,93,HH22,90-OD1-93-HH22

197,90,OD2,93,HH11,90-OD2-93-HH11	237,94,OE1,397,HZ1,94-OE1-397-HZ1
198,90,OD2,98,HH22,90-OD2-98-HH22	238,94,OE1,98,HH11,94-OE1-98-HH11
199,90,OD1,93,HH11,90-OD1-93-HH11	239,94,OE1,98,HE,94-OE1-98-HE
200,90,O,94,HE21,90-O-94-HE21	240,94,O,99,HE21,94-O-99-HE21
201,90,OD1,93,HH21,90-OD1-93-HH21	241,95,O,100,H,95-O-100-H
202,90,OD2,397,HZ3,90-OD2-397-HZ3	242,95,O,99,H,95-O-99-H
203,90,OD2,90,H,90-OD2-90-H	243,96,O,454,H,96-O-454-H
204,90,OD1,91,H,90-OD1-91-H	244,96,O,100,H,96-O-100-H
205,90,OD1,397,HZ3,90-OD1-397-HZ3	245,97,O,100,H,97-O-100-H
206,90,OD2,98,HH12,90-OD2-98-HH12	246,98,O,100,H,98-O-100-H
207,90,OD1,94,HE22,90-OD1-94-HE22	247,98,O,98,HH11,98-O-98-HH11
208,90,OD1,397,HZ1,90-OD1-397-HZ1	248,99,OE1,98,HH21,99-OE1-98-HH21
209,90,OD1,90,H,90-OD1-90-H	249,99,O,101,H,99-O-101-H
210,90,OD1,98,HH22,90-OD1-98-HH22	250,99,OE1,94,HE21,99-OE1-94-HE21
211,90,OD1,93,HE,90-OD1-93-HE	251,99,OE1,98,HH11,99-OE1-98-HH11
212,90,OD1,98,HH12,90-OD1-98-HH12	252,99,O,103,H,99-O-103-H
213,90,O,98,HH22,90-O-98-HH22	253,99,OE1,98,HE,99-OE1-98-HE
214,90,OD2,91,HG1,90-OD2-91-HG1	254,99,O,102,H,99-O-102-H
215,90,O,94,H,90-O-94-H	255,100,O,454,HZ3,100-O-454-HZ3
216,90,OD2,397,HZ2,90-OD2-397-HZ2	256,100,O,454,HZ2,100-O-454-HZ2
217,90,OD1,397,HZ2,90-OD1-397-HZ2	257,100,O,103,H,100-O-103-H
218,90,OD2,91,H,90-OD2-91-H	258,100,O,104,H,100-O-104-H
219,90,OD2,94,HE21,90-OD2-94-HE21	259,101,OD1,104,HZ3,101-OD1-104-HZ3
220,90,OD1,94,HE21,90-OD1-94-HE21	260,101,OD1,454,HZ1,101-OD1-454-HZ1
221,91,O,94,H,91-O-94-H	261,101,OD1,392,HH22,101-OD1-392-HH22
222,91,OG1,397,HZ1,91-OG1-397-HZ1	262,101,O,104,HZ3,101-O-104-HZ3
223,91,OG1,397,HZ3,91-OG1-397-HZ3	263,101,OD2,104,HZ2,101-OD2-104-HZ2
224,91,OG1,397,HZ2,91-OG1-397-HZ2	264,101,OD2,392,HH22,101-OD2-392-HH22
225,91,O,95,H,91-O-95-H	265,101,OD2,392,HH12,101-OD2-392-HH12
226,92,O,95,H,92-O-95-H	266,101,OD1,454,HZ2,101-OD1-454-HZ2
227,92,O,96,H,92-O-96-H	267,101,OD2,454,HZ3,101-OD2-454-HZ3
228,93,O,98,H,93-O-98-H	268,101,OD1,454,HZ3,101-OD1-454-HZ3
229,93,O,97,H,93-O-97-H	269,101,OD1,104,HZ1,101-OD1-104-HZ1
230,94,OE1,98,HH21,94-OE1-98-HH21	270,101,OD2,454,HZ2,101-OD2-454-HZ2
231,94,OE1,91,HG1,94-OE1-91-HG1	271,101,OD2,104,HZ1,101-OD2-104-HZ1
232,94,O,99,H,94-O-99-H	272,101,O,104,H,101-O-104-H
233,94,OE1,397,H,94-OE1-397-H	273,101,OD1,392,HH12,101-OD1-392-HH12
234,94,OE1,397,HZ2,94-OE1-397-HZ2	274,101,O,391,HG1,101-O-391-HG1
235,94,OE1,397,HZ3,94-OE1-397-HZ3	275,101,OD2,454,HZ1,101-OD2-454-HZ1
236,94,NE2,397,H,94-NE2-397-H	276,101,OD1,104,HZ2,101-OD1-104-HZ2

277,101,OD2,104,HZ3,101-OD2-104-HZ3	317,110,OH,252,HZ2,110-OH-252-HZ2
278,101,O,104,HZ2,101-O-104-HZ2	318,110,OH,252,HZ3,110-OH-252-HZ3
279,101,O,104,HZ1,101-O-104-HZ1	319,110,OH,252,HZ1,110-OH-252-HZ1
280,101,O,392,HH12,101-O-392-HH12	320,110,O,113,H,110-O-113-H
281,102,OD1,392,HE,102-OD1-392-HE	321,111,O,115,H,111-O-115-H
282,102,OD2,392,HE,102-OD2-392-HE	322,111,O,114,H,111-O-114-H
283,102,O,104,H,102-O-104-H	323,112,O,115,H,112-O-115-H
284,102,OD2,392,HH11,102-OD2-392-HH11	324,113,O,115,H,113-O-115-H
285,102,OD1,392,HH11,102-OD1-392-HH11	325,113,O,118,H,113-O-118-H
286,102,OD2,394,HG1,102-OD2-394-HG1	326,114,O,117,H,114-O-117-H
287,102,OD1,392,HH21,102-OD1-392-HH21	327,114,O,118,H,114-O-118-H
288,102,OD2,99,HE21,102-OD2-99-HE21	328,114,O,255,HD21,114-O-255-HD21
289,102,OD1,99,HE21,102-OD1-99-HE21	329,114,O,259,HH,114-O-259-HH
290,102,O,391,HG1,102-O-391-HG1	330,114,O,255,HD22,114-O-255-HD22
291,102,O,391,H,102-O-391-H	331,115,O,118,H,115-O-118-H
292,102,OD2,392,HH21,102-OD2-392-HH21	332,116,O,119,H,116-O-119-H
293,103,O,388,HD1,103-O-388-HD1	333,116,O,309,HD22,116-O-309-HD22
294,103,O,105,H,103-O-105-H	334,116,OG,309,HD22,116-OG-309-HD22
295,103,O,389,H,103-O-389-H	335,116,OG,259,HH,116-OG-259-HH
296,104,O,455,HE,104-O-455-HE	336,116,OG,309,HD21,116-OG-309-HD21
297,104,O,455,HH21,104-O-455-HH21	337,116,O,116,HG,116-O-116-HG
298,104,O,127,HG,104-O-127-HG	338,116,O,309,HD21,116-O-309-HD21
299,105,O,455,HH21,105-O-455-HH21	339,116,O,119,HE21,116-O-119-HE21
300,105,O,388,HD1,105-O-388-HD1	340,117,O,119,HE21,117-O-119-HE21
301,105,O,389,H,105-O-389-H	341,117,OD1,259,HH,117-OD1-259-HH
302,106,NH1,388,HD1,106-NH1-388-HD1	342,117,OD1,306,HZ1,117-OD1-306-HZ1
303,107,O,109,H,107-O-109-H	343,117,OD1,306,HZ2,117-OD1-306-HZ2
304,108,OD2,108,H,108-OD2-108-H	344,117,O,306,HZ1,117-O-306-HZ1
305,108,OD1,241,HH12,108-OD1-241-HH12	345,117,N,117,HD22,117-N-117-HD22
306,108,OD1,108,H,108-OD1-108-H	346,117,OD1,306,HZ3,117-OD1-306-HZ3
307,108,O,241,HH12,108-O-241-HH12	347,117,OD1,309,HD22,117-OD1-309-HD22
308,108,OD2,241,HH22,108-OD2-241-HH22	348,117,ND2,306,HZ1,117-ND2-306-HZ1
309,108,OD1,241,HH22,108-OD1-241-HH22	349,117,O,306,HZ2,117-O-306-HZ2
310,108,OD2,241,HH12,108-OD2-241-HH12	350,117,O,306,HZ3,117-O-306-HZ3
311,108,O,241,HH22,108-O-241-HH22	351,117,O,119,HE22,117-O-119-HE22
312,109,O,113,HG1,109-O-113-HG1	352,117,O,117,HD22,117-O-117-HD22
313,109,O,113,H,109-O-113-H	353,117,O,119,H,117-O-119-H
314,109,O,112,H,109-O-112-H	354,117,OD1,119,HE21,117-OD1-119-HE21
315,110,O,114,H,110-O-114-H	355,118,O,124,HG,118-O-124-HG
316,110,O,113,HG1,110-O-113-HG1	356,118,O,119,HE21,118-O-119-HE21

357,118,O,120,H,118-O-120-H	397,126,OD1,124,HG,126-OD1-124-HG
358,119,O,119,HE21,119-O-119-HE21	398,126,OD2,119,HE22,126-OD2-119-HE22
359,119,OE1,306,HZ1,119-OE1-306-HZ1	399,126,O,127,HG,126-O-127-HG
360,119,O,134,HH12,119-O-134-HH12	400,126,OD1,301,HE22,126-OD1-301-HE22
361,119,O,134,HH22,119-O-134-HH22	401,126,OD2,134,HH11,126-OD2-134-HH11
362,119,OE1,306,HZ3,119-OE1-306-HZ3	402,126,OD2,119,HE21,126-OD2-119-HE21
363,119,O,309,HD21,119-O-309-HD21	403,126,OD2,128,H,126-OD2-128-H
364,119,OE1,117,HD22,119-OE1-117-HD22	404,126,OD1,134,HH11,126-OD1-134-HH11
365,119,OE1,306,HZ2,119-OE1-306-HZ2	405,126,OD1,119,HE22,126-OD1-119-HE22
366,119,OE1,309,HD22,119-OE1-309-HD22	406,126,OD2,127,H,126-OD2-127-H
367,119,O,134,HH21,119-O-134-HH21	407,126,OD1,128,H,126-OD1-128-H
368,119,OE1,309,HD21,119-OE1-309-HD21	408,126,OD2,131,H,126-OD2-131-H
369,119,OE1,124,HG,119-OE1-124-HG	409,126,O,128,H,126-O-128-H
370,119,OE1,134,HH22,119-OE1-134-HH22	410,126,OD1,119,HE21,126-OD1-119-HE21
371,119,OE1,301,HE22,119-OE1-301-HE22	411,126,O,455,HH21,126-O-455-HH21
372,119,OE1,134,HH12,119-OE1-134-HH12	412,126,OD2,134,HH12,126-OD2-134-HH12
373,120,OG,123,H,120-OG-123-H	413,126,OD2,301,HE21,126-OD2-301-HE21
374,120,OG,122,H,120-OG-122-H	414,126,OD1,134,HH12,126-OD1-134-HH12
375,120,O,124,HG,120-O-124-HG	415,126,OD1,127,H,126-OD1-127-H
376,120,O,131,HE1,120-O-131-HE1	416,126,OD2,306,HZ3,126-OD2-306-HZ3
377,120,O,122,H,120-O-122-H	417,126,OD1,131,H,126-OD1-131-H
378,120,O,124,H,120-O-124-H	418,127,O,104,HZ2,127-O-104-HZ2
379,120,O,123,H,120-O-123-H	419,127,OG,454,HZ3,127-OG-454-HZ3
380,121,O,455,HH12,121-O-455-HH12	420,127,OG,454,HZ2,127-OG-454-HZ2
381,121,N,134,HH12,121-N-134-HH12	421,127,OG,455,HE,127-OG-455-HE
382,121,O,131,HE1,121-O-131-HE1	422,127,O,127,HG,127-O-127-HG
383,122,O,106,HH21,122-O-106-HH21	423,127,O,104,HZ1,127-O-104-HZ1
384,122,O,106,HE,122-O-106-HE	424,127,O,454,HZ2,127-O-454-HZ2
385,122,OG,106,HH21,122-OG-106-HH21	425,127,O,454,HZ1,127-O-454-HZ1
386,122,O,455,HH12,122-O-455-HH12	426,127,O,104,HZ3,127-O-104-HZ3
387,122,O,455,HH11,122-O-455-HH11	427,127,OG,455,HH21,127-OG-455-HH21
388,124,O,126,H,124-O-126-H	428,127,OG,454,HZ1,127-OG-454-HZ1
389,124,O,455,HH12,124-O-455-HH12	429,127,OG,104,HZ1,127-OG-104-HZ1
390,124,O,455,HH22,124-O-455-HH22	430,127,O,454,HZ3,127-O-454-HZ3
391,124,OG,119,HE22,124-OG-119-HE22	431,128,O,131,H,128-O-131-H
392,124,OG,126,H,124-OG-126-H	432,128,O,132,H,128-O-132-H
393,125,O,127,HG,125-O-127-HG	433,129,O,133,H,129-O-133-H
394,125,O,127,H,125-O-127-H	434,129,O,299,HD21,129-O-299-HD21
395,126,O,124,HG,126-O-124-HG	435,130,O,134,H,130-O-134-H
396,126,O,455,HH22,126-O-455-HH22	436,130,O,133,H,130-O-133-H

437,131,O,134,H,131-O-134-H
438,131,O,135,H,131-O-135-H
439,132,O,136,H,132-O-136-H
440,133,O,136,H,133-O-136-H
441,133,O,137,H,133-O-137-H
442,134,O,138,H,134-O-138-H
443,134,NH2,309,HD21,134-NH2-309-HD21
444,135,O,138,H,135-O-138-H
445,135,O,139,HE21,135-O-139-HE21
446,135,O,139,H,135-O-139-H
447,136,O,140,H,136-O-140-H
448,136,NH2,299,HD21,136-NH2-299-HD21
449,136,O,140,HD22,136-O-140-HD22
450,136,O,139,H,136-O-139-H
451,137,O,140,H,137-O-140-H
452,137,O,141,H,137-O-141-H
453,137,O,140,HD22,137-O-140-HD22
454,138,O,141,H,138-O-141-H
455,138,O,142,H,138-O-142-H
456,139,OE1,136,HH11,139-OE1-136-HH11
457,139,O,139,HE21,139-O-139-HE21
458,139,O,143,H,139-O-143-H
459,139,OE1,135,HH22,139-OE1-135-HH22
460,139,OE1,143,HZ2,139-OE1-143-HZ2
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462,139,OE1,135,HH21,139-OE1-135-HH21
463,139,OE1,143,HZ3,139-OE1-143-HZ3
464,139,OE1,143,HZ1,139-OE1-143-HZ1
465,139,OE1,135,HH12,139-OE1-135-HH12
466,139,OE1,135,HE,139-OE1-135-HE
467,140,OD1,139,HE21,140-OD1-139-HE21
468,140,O,144,H,140-O-144-H
469,140,OD1,136,HH11,140-OD1-136-HH11
470,140,OD1,136,HE,140-OD1-136-HE
471,140,OD1,136,HH21,140-OD1-136-HH21
472,140,OD1,143,HZ3,140-OD1-143-HZ3
473,140,OD1,288,HE2,140-OD1-288-HE2
474,140,OD1,143,HZ1,140-OD1-143-HZ1
475,140,OD1,139,HE22,140-OD1-139-HE22
476,140,O,144,HG,140-O-144-HG
477,140,OD1,143,HZ2,140-OD1-143-HZ2
478,141,O,144,HG,141-O-144-HG
479,141,O,144,H,141-O-144-H
480,141,O,145,H,141-O-145-H
481,142,O,145,H,142-O-145-H
482,142,O,147,H,142-O-147-H
483,142,O,146,H,142-O-146-H
484,142,O,146,HG,142-O-146-HG
485,143,O,146,H,143-O-146-H
486,143,O,147,H,143-O-147-H
487,143,O,148,H,143-O-148-H
488,144,O,144,HG,144-O-144-HG
489,144,O,158,HH,144-O-158-HH
490,144,O,148,H,144-O-148-H
491,144,O,146,H,144-O-146-H
492,145,O,146,HG,145-O-146-HG
493,145,O,162,HE2,145-O-162-HE2
494,146,OG,147,H,146-OG-147-H
495,146,O,148,H,146-O-148-H
496,146,O,158,H,146-O-158-H
497,146,O,159,H,146-O-159-H
498,148,O,158,H,148-O-158-H
499,149,OG,154,HG,149-OG-154-HG
500,149,O,149,HG,149-O-149-HG
501,149,OG,150,H,149-OG-150-H
502,149,O,158,HH,149-O-158-HH
503,150,OD2,153,HG,150-OD2-153-HG
504,150,O,153,HG,150-O-153-HG
505,150,OD2,152,H,150-OD2-152-H
506,150,OD1,152,H,150-OD1-152-H
507,150,OD1,153,HG,150-OD1-153-HG
508,150,OD2,165,HZ1,150-OD2-165-HZ1
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510,150,O,154,HG,150-O-154-HG
511,150,OD2,153,H,150-OD2-153-H
512,150,N,149,HG,150-N-149-HG
513,150,OD2,158,HH,150-OD2-158-HH
514,150,O,149,HG,150-O-149-HG
515,150,OD1,153,H,150-OD1-153-H
516,150,O,153,H,150-O-153-H

517,151,O,153,H,151-O-153-H	557,156,OG,153,HG,156-OG-153-HG
518,152,O,154,H,152-O-154-H	558,156,O,150,H,156-O-150-H
519,152,O,153,HG,152-O-153-HG	559,157,O,160,H,157-O-160-H
520,153,OG,154,H,153-OG-154-H	560,157,O,156,HG,157-O-156-HG
521,153,O,155,H,153-O-155-H	561,157,O,161,H,157-O-161-H
522,153,OG,156,H,153-OG-156-H	562,158,O,161,H,158-O-161-H
523,153,O,156,HG,153-O-156-HG	563,158,O,162,H,158-O-162-H
524,153,OG,156,HG,153-OG-156-HG	564,159,O,162,H,159-O-162-H
525,153,O,156,H,153-O-156-H	565,159,O,163,H,159-O-163-H
526,153,OG,155,HG1,153-OG-155-HG1	566,160,OE1,359,H,160-OE1-359-H
527,153,OG,155,H,153-OG-155-H	567,160,OE1,358,HE,160-OE1-358-HE
528,153,O,154,HG,153-O-154-HG	568,160,OE2,356,HH22,160-OE2-356-HH22
529,154,OG,155,HG1,154-OG-155-HG1	569,160,O,164,HG,160-O-164-HG
530,154,O,155,HG1,154-O-155-HG1	570,160,OE2,356,HH12,160-OE2-356-HH12
531,154,O,154,HG,154-O-154-HG	571,160,OE1,358,HH21,160-OE1-358-HH21
532,154,OG,155,H,154-OG-155-H	572,160,O,164,H,160-O-164-H
533,154,O,149,HG,154-O-149-HG	573,160,OE2,359,H,160-OE2-359-H
534,155,O,149,HG,155-O-149-HG	574,160,OE2,356,HH21,160-OE2-356-HH21
535,155,OG1,358,HH11,155-OG1-358-HH11	575,160,OE2,358,HH21,160-OE2-358-HH21
536,155,O,155,HG1,155-O-155-HG1	576,160,OE2,156,HG,160-OE2-156-HG
537,155,OG1,358,HH22,155-OG1-358-HH22	577,160,OE1,356,HH21,160-OE1-356-HH21
538,155,O,358,HH21,155-O-358-HH21	578,160,OE1,356,HH22,160-OE1-356-HH22
539,155,O,358,HE,155-O-358-HE	579,160,OE2,358,HE,160-OE2-358-HE
540,155,OG1,358,HH12,155-OG1-358-HH12	580,160,OE2,157,H,160-OE2-157-H
541,155,O,360,HG,155-O-360-HG	581,160,OE1,356,HH12,160-OE1-356-HH12
542,155,O,358,HH22,155-O-358-HH22	582,160,OE2,356,HE,160-OE2-356-HE
543,155,OG1,360,HG,155-OG1-360-HG	583,160,OE1,157,H,160-OE1-157-H
544,155,OG1,156,HG,155-OG1-156-HG	584,160,OE1,358,HH11,160-OE1-358-HH11
545,155,OG1,358,HH21,155-OG1-358-HH21	585,160,OE1,156,HG,160-OE1-156-HG
546,155,O,358,HH12,155-O-358-HH12	586,161,OE2,156,HG,161-OE2-156-HG
547,155,OG1,153,HG,155-OG1-153-HG	587,161,OE1,165,HZ1,161-OE1-165-HZ1
548,155,O,157,H,155-O-157-H	588,161,OE2,153,HG,161-OE2-153-HG
549,156,O,149,HG,156-O-149-HG	589,161,O,165,HZ2,161-O-165-HZ2
550,156,OG,356,HH21,156-OG-356-HH21	590,161,OE2,356,HH21,161-OE2-356-HH21
551,156,O,153,HG,156-O-153-HG	591,161,OE1,356,HH21,161-OE1-356-HH21
552,156,OG,155,HG1,156-OG-155-HG1	592,161,OE1,356,HE,161-OE1-356-HE
553,156,OG,358,HH21,156-OG-358-HH21	593,161,OE1,153,HG,161-OE1-153-HG
554,156,OG,356,HH22,156-OG-356-HH22	594,161,O,165,HZ1,161-O-165-HZ1
555,156,OG,358,HH22,156-OG-358-HH22	595,161,O,165,H,161-O-165-H
556,156,OG,358,HH11,156-OG-358-HH11	596,161,OE1,165,HZ2,161-OE1-165-HZ2

597,161,OE2,356,HH22,161-OE2-356-HH22
598,161,OE2,356,HE,161-OE2-356-HE
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603,161,OE2,165,HZ3,161-OE2-165-HZ3
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605,161,OE1,358,HH12,161-OE1-358-HH12
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613,162,ND1,165,HZ3,162-ND1-165-HZ3
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616,163,O,166,H,163-O-166-H
617,164,OG,356,HE,164-OG-356-HE
618,164,OG,356,HH21,164-OG-356-HH21
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621,165,O,168,H,165-O-168-H
622,165,O,169,H,165-O-169-H
623,166,O,193,HG,166-O-193-HG
624,166,OE2,206,HH21,166-OE2-206-HH21
625,166,OE1,196,HD22,166-OE1-196-HD22
626,166,OE1,206,HH21,166-OE1-206-HH21
627,166,OE1,206,HE,166-OE1-206-HE
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634,168,OE2,356,HH21,168-OE2-356-HH21
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663,172,O,175,HE21,172-O-175-HE21
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675,177,O,180,H,177-O-180-H
676,177,O,183,H,177-O-183-H

677,177,O,182,H,177-O-182-H	717,196,OD1,207,H,196-OD1-207-H
678,178,O,180,H,178-O-180-H	718,196,ND2,207,H,196-ND2-207-H
679,181,O,183,H,181-O-183-H	719,197,O,201,H,197-O-201-H
680,182,O,507,HE21,182-O-507-HE21	720,197,O,200,H,197-O-200-H
681,183,ND1,183,H,183-ND1-183-H	721,198,O,202,H,198-O-202-H
682,183,ND1,507,HE21,183-ND1-507-HE21	722,199,O,202,H,199-O-202-H
683,184,O,506,H,184-O-506-H	723,199,O,203,H,199-O-203-H
684,185,OD1,188,H,185-OD1-188-H	724,199,O,204,H,199-O-204-H
685,185,OD1,187,H,185-OD1-187-H	725,199,O,205,H,199-O-205-H
686,186,O,190,H,186-O-190-H	726,200,O,204,H,200-O-204-H
687,186,O,189,H,186-O-189-H	727,201,O,281,H,201-O-281-H
688,186,O,327,HG,186-O-327-HG	728,202,O,281,H,202-O-281-H
689,187,OH,499,HZ3,187-OH-499-HZ3	729,202,O,282,H,202-O-282-H
690,187,OH,324,HG1,187-OH-324-HG1	730,202,O,282,HG1,202-O-282-HG1
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692,187,O,191,H,187-O-191-H	732,203,O,205,HH11,203-O-205-HH11
693,187,OH,219,HD22,187-OH-219-HD22	733,203,O,205,H,203-O-205-H
694,187,O,190,H,187-O-190-H	734,203,O,205,HH21,203-O-205-HH21
695,187,OH,499,HZ1,187-OH-499-HZ1	735,204,O,205,HE,204-O-205-HE
696,188,O,188,HH11,188-O-188-HH11	736,205,NH2,269,HE2,205-NH2-269-HE2
697,188,O,219,HD21,188-O-219-HD21	737,206,O,205,HH21,206-O-205-HH21
698,188,NH2,185,HD22,188-NH2-185-HD22	738,207,OH,205,HH11,207-OH-205-HH11
699,189,O,209,HE2,189-O-209-HE2	739,207,O,196,HD21,207-O-196-HD21
700,189,OH,188,HH11,189-OH-188-HH11	740,208,OD2,206,HH22,208-OD2-206-HH22
701,189,O,193,HG,189-O-193-HG	741,208,O,210,H,208-O-210-H
702,189,O,192,H,189-O-192-H	742,208,O,211,H,208-O-211-H
703,189,O,193,H,189-O-193-H	743,208,OD2,206,HH12,208-OD2-206-HH12
704,190,O,193,H,190-O-193-H	744,208,OD2,209,H,208-OD2-209-H
705,190,O,193,HG,190-O-193-HG	745,208,OD1,210,HD22,208-OD1-210-HD22
706,190,O,194,H,190-O-194-H	746,208,OD2,210,HD22,208-OD2-210-HD22
707,191,O,195,HG1,191-O-195-HG1	747,208,OD1,209,H,208-OD1-209-H
708,191,O,195,H,191-O-195-H	748,208,OD2,210,HD21,208-OD2-210-HD21
709,192,O,196,H,192-O-196-H	749,208,OD2,206,HH11,208-OD2-206-HH11
710,193,O,197,H,193-O-197-H	750,208,OD2,208,H,208-OD2-208-H
711,193,O,196,H,193-O-196-H	751,208,OD2,211,H,208-OD2-211-H
712,193,OG,209,HE2,193-OG-209-HE2	752,208,OD1,206,HH22,208-OD1-206-HH22
713,194,O,197,H,194-O-197-H	753,208,OD1,210,HD21,208-OD1-210-HD21
714,194,O,198,H,194-O-198-H	754,208,OD2,210,H,208-OD2-210-H
715,195,O,199,H,195-O-199-H	755,208,OD1,210,H,208-OD1-210-H
716,196,O,200,H,196-O-200-H	756,208,OD1,208,H,208-OD1-208-H

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809,215,O,220,H,215-O-220-H
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828,219,OD1,188,HE,219-OD1-188-HE
829,219,O,219,HD22,219-O-219-HD22
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831,220,O,221,HD22,220-O-221-HD22
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835,221,O,221,HD22,221-O-221-HD22
836,221,O,223,HD22,221-O-223-HD22

837,221,OD1,216,HG,221-OD1-216-HG	877,230,OG,494,HH,230-OG-494-HH
838,221,OD1,257,HZ3,221-OD1-257-HZ3	878,232,OD1,234,H,232-OD1-234-H
839,221,OD1,257,HZ2,221-OD1-257-HZ2	879,232,OD1,494,HH,232-OD1-494-HH
840,222,OD1,224,H,222-OD1-224-H	880,232,OD1,235,H,232-OD1-235-H
841,223,O,223,HD22,223-O-223-HD22	881,232,O,235,H,232-O-235-H
842,223,O,226,H,223-O-226-H	882,232,O,234,H,232-O-234-H
843,223,O,227,H,223-O-227-H	883,232,O,236,H,232-O-236-H
844,224,O,227,H,224-O-227-H	884,233,O,235,H,233-O-235-H
845,224,O,226,H,224-O-226-H	885,233,O,236,H,233-O-236-H
846,224,O,228,H,224-O-228-H	886,233,O,237,H,233-O-237-H
847,225,O,229,H,225-O-229-H	887,234,O,241,HH11,234-O-241-HH11
848,225,O,497,H,225-O-497-H	888,234,O,237,H,234-O-237-H
849,225,O,496,H,225-O-496-H	889,234,O,241,H,234-O-241-H
850,226,OE2,57,HZ1,226-OE2-57-HZ1	890,235,OD1,111,H,235-OD1-111-H
851,226,OE1,57,HZ3,226-OE1-57-HZ3	891,235,OD2,111,HG1,235-OD2-111-HG1
852,226,OE1,247,HG,226-OE1-247-HG	892,235,OD2,232,HD22,235-OD2-232-HD22
853,226,OE1,232,HD21,226-OE1-232-HD21	893,235,OD1,110,H,235-OD1-110-H
854,226,OE2,223,HD22,226-OE2-223-HD22	894,235,OD1,111,HG1,235-OD1-111-HG1
855,226,OE2,247,HG,226-OE2-247-HG	895,235,OD1,241,HH11,235-OD1-241-HH11
856,226,OE2,57,HZ2,226-OE2-57-HZ2	896,235,OD1,232,HD22,235-OD1-232-HD22
857,226,OE2,226,H,226-OE2-226-H	897,235,O,241,HH11,235-O-241-HH11
858,226,O,232,HD21,226-O-232-HD21	898,235,OD1,241,HH12,235-OD1-241-HH12
859,226,OE1,57,HZ1,226-OE1-57-HZ1	899,235,OD2,111,H,235-OD2-111-H
860,226,OE2,57,HZ3,226-OE2-57-HZ3	900,235,O,241,HH12,235-O-241-HH12
861,226,O,229,H,226-O-229-H	901,235,OD2,110,H,235-OD2-110-H
862,226,OE1,223,HD22,226-OE1-223-HD22	902,235,OD1,241,HH22,235-OD1-241-HH22
863,226,O,232,HD22,226-O-232-HD22	903,235,OD2,241,HH11,235-OD2-241-HH11
864,226,OE1,226,H,226-OE1-226-H	904,236,O,80,H,236-O-80-H
865,226,OE1,57,HZ2,226-OE1-57-HZ2	905,236,O,81,HG1,236-O-81-HG1
866,227,O,232,HD22,227-O-232-HD22	906,237,O,240,H,237-O-240-H
867,227,O,229,H,227-O-229-H	907,237,O,241,H,237-O-241-H
868,228,O,230,H,228-O-230-H	908,238,O,241,H,238-O-241-H
869,228,O,232,HD21,228-O-232-HD21	909,238,O,242,H,238-O-242-H
870,228,O,496,H,228-O-496-H	910,238,O,241,HE,238-O-241-HE
871,229,O,494,HH,229-O-494-HH	911,239,O,243,H,239-O-243-H
872,229,O,232,HD22,229-O-232-HD22	912,239,O,241,H,239-O-241-H
873,229,O,232,H,229-O-232-H	913,239,O,242,H,239-O-242-H
874,229,N,232,HD21,229-N-232-HD21	914,240,O,245,HD21,240-O-245-HD21
875,230,O,494,HH,230-O-494-HH	915,240,O,242,H,240-O-242-H
876,230,OG,231,H,230-OG-231-H	916,240,O,245,HD22,240-O-245-HD22

917,240,O,243,H,240-O-243-H	957,253,OD1,252,HZ1,253-OD1-252-HZ1
918,241,NH1,110,H,241-NH1-110-H	958,253,OD2,221,HD21,253-OD2-221-HD21
919,242,OH,241,HH21,242-OH-241-HH21	959,253,OD2,252,HZ1,253-OD2-252-HZ1
920,242,OH,241,HE,242-OH-241-HE	960,253,OD1,252,HZ2,253-OD1-252-HZ2
921,243,O,245,H,243-O-245-H	961,253,OD2,257,HZ3,253-OD2-257-HZ3
922,243,O,245,HD22,243-O-245-HD22	962,253,OD2,252,HZ3,253-OD2-252-HZ3
923,244,O,249,HD21,244-O-249-HD21	963,253,OD1,257,HZ1,253-OD1-257-HZ1
924,245,OD1,248,H,245-OD1-248-H	964,253,OD2,257,HZ1,253-OD2-257-HZ1
925,245,OD1,247,H,245-OD1-247-H	965,253,OD1,257,HZ3,253-OD1-257-HZ3
926,245,O,248,H,245-O-248-H	966,253,OD2,257,HZ2,253-OD2-257-HZ2
927,245,O,249,H,245-O-249-H	967,253,OD1,252,HZ3,253-OD1-252-HZ3
928,245,O,249,HD22,245-O-249-HD22	968,253,O,257,H,253-O-257-H
929,245,OD1,247,HG,245-OD1-247-HG	969,253,OD1,257,HZ2,253-OD1-257-HZ2
930,245,ND2,248,H,245-ND2-248-H	970,253,OD2,252,HZ2,253-OD2-252-HZ2
931,246,O,249,H,246-O-249-H	971,253,O,256,H,253-O-256-H
932,246,O,250,H,246-O-250-H	972,253,O,257,HZ2,253-O-257-HZ2
933,247,O,250,H,247-O-250-H	973,253,O,257,HZ3,253-O-257-HZ3
934,247,O,223,HD21,247-O-223-HD21	974,254,O,257,H,254-O-257-H
935,247,OG,245,HD21,247-OG-245-HD21	975,254,O,258,H,254-O-258-H
936,247,O,251,H,247-O-251-H	976,255,OD1,116,H,255-OD1-116-H
937,247,OG,223,HD22,247-OG-223-HD22	977,255,N,255,HD22,255-N-255-HD22
938,248,O,251,H,248-O-251-H	978,255,O,259,H,255-O-259-H
939,248,O,252,H,248-O-252-H	979,255,O,258,H,255-O-258-H
940,249,OD1,252,HZ3,249-OD1-252-HZ3	980,256,OE1,257,HZ2,256-OE1-257-HZ2
941,249,OD1,252,HZ2,249-OD1-252-HZ2	981,256,OE1,252,HZ3,256-OE1-252-HZ3
942,249,OD1,252,HZ1,249-OD1-252-HZ1	982,256,OE1,257,HZ1,256-OE1-257-HZ1
943,249,O,253,H,249-O-253-H	983,256,OE1,117,HD21,256-OE1-117-HD21
944,249,O,252,H,249-O-252-H	984,256,O,259,H,256-O-259-H
945,249,OD1,245,H,249-OD1-245-H	985,256,OE1,257,HZ3,256-OE1-257-HZ3
946,249,O,249,HD22,249-O-249-HD22	986,256,O,260,H,256-O-260-H
947,250,O,253,H,250-O-253-H	987,256,O,260,HG,256-O-260-HG
948,250,O,223,HD21,250-O-223-HD21	988,256,OE2,257,HZ3,256-OE2-257-HZ3
949,250,O,254,H,250-O-254-H	989,256,OE2,257,HZ2,256-OE2-257-HZ2
950,251,O,254,H,251-O-254-H	990,256,OE2,252,HZ1,256-OE2-252-HZ1
951,251,O,255,HD22,251-O-255-HD22	991,256,OE2,260,HG,256-OE2-260-HG
952,251,N,223,HD21,251-N-223-HD21	992,256,OE2,257,HZ1,256-OE2-257-HZ1
953,251,O,255,H,251-O-255-H	993,256,OE1,260,HG,256-OE1-260-HG
954,252,O,256,H,252-O-256-H	994,256,OE2,259,HH,256-OE2-259-HH
955,252,O,255,H,252-O-255-H	995,256,OE2,252,HZ2,256-OE2-252-HZ2
956,253,OD2,249,HD21,253-OD2-249-HD21	996,256,OE2,252,HZ3,256-OE2-252-HZ3

997,256,OE1,252,HZ1,256-OE1-252-HZ1	1037,263,O,268,H,263-O-268-H
998,256,OE1,252,HZ2,256-OE1-252-HZ2	1038,263,OE1,267,H,263-OE1-267-H
999,256,OE2,117,HD21,256-OE2-117-HD21	1039,263,OE1,264,HZ1,263-OE1-264-HZ1
1000,257,O,260,H,257-O-260-H	1040,264,O,267,H,264-O-267-H
1001,257,O,260,HG,257-O-260-HG	1041,264,O,205,HH12,264-O-205-HH12
1002,257,O,261,H,257-O-261-H	1042,264,O,268,H,264-O-268-H
1003,258,O,262,H,258-O-262-H	1043,264,O,205,HH22,264-O-205-HH22
1004,258,O,261,H,258-O-261-H	1044,265,O,205,HH21,265-O-205-HH21
1005,259,OH,119,HE22,259-OH-119-HE22	1045,265,O,205,HH22,265-O-205-HH22
1006,259,OH,117,H,259-OH-117-H	1046,265,O,268,H,265-O-268-H
1007,259,OH,117,HD22,259-OH-117-HD22	1047,265,O,269,H,265-O-269-H
1008,259,OH,309,HD21,259-OH-309-HD21	1048,265,O,205,HH12,265-O-205-HH12
1009,259,OH,117,HD21,259-OH-117-HD21	1049,266,O,270,H,266-O-270-H
1010,259,O,263,H,259-O-263-H	1050,266,O,269,H,266-O-269-H
1011,259,OH,116,HG,259-OH-116-HG	1051,267,O,271,HZ2,267-O-271-HZ2
1012,259,O,262,H,259-O-262-H	1052,267,O,270,H,267-O-270-H
1013,259,OH,309,HD22,259-OH-309-HD22	1053,267,O,271,HZ1,267-O-271-HZ1
1014,259,OH,263,HE21,259-OH-263-HE21	1054,267,O,269,H,267-O-269-H
1015,259,O,263,HE21,259-O-263-HE21	1055,267,O,271,H,267-O-271-H
1016,260,O,264,HZ3,260-O-264-HZ3	1056,267,O,271,HZ3,267-O-271-HZ3
1017,260,OG,264,HZ3,260-OG-264-HZ3	1057,268,OE1,264,HZ1,268-OE1-264-HZ1
1018,260,O,264,H,260-O-264-H	1058,268,OE1,267,HZ3,268-OE1-267-HZ3
1019,260,O,264,HZ2,260-O-264-HZ2	1059,268,OE2,264,HZ3,268-OE2-264-HZ3
1020,260,OG,264,HZ2,260-OG-264-HZ2	1060,268,OE1,267,HZ2,268-OE1-267-HZ2
1021,260,OG,264,HZ1,260-OG-264-HZ1	1061,268,OE2,264,HZ2,268-OE2-264-HZ2
1022,261,O,264,H,261-O-264-H	1062,268,OE1,264,HZ3,268-OE1-264-HZ3
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1024,262,O,265,H,262-O-265-H	1064,268,OE2,271,HZ3,268-OE2-271-HZ3
1025,262,O,267,H,262-O-267-H	1065,268,OE1,271,HZ3,268-OE1-271-HZ3
1026,262,O,266,H,262-O-266-H	1066,268,OE2,267,HZ2,268-OE2-267-HZ2
1027,263,OE1,267,HZ2,263-OE1-267-HZ2	1067,268,OE1,271,HZ1,268-OE1-271-HZ1
1028,263,NE2,259,HH,263-NE2-259-HH	1068,268,OE1,263,HE21,268-OE1-263-HE21
1029,263,OE1,267,HZ3,263-OE1-267-HZ3	1069,268,OE1,205,HH12,268-OE1-205-HH12
1030,263,OE1,267,HZ1,263-OE1-267-HZ1	1070,268,OE1,267,HZ1,268-OE1-267-HZ1
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1032,263,O,266,H,263-O-266-H	1072,268,OE1,263,HE22,268-OE1-263-HE22
1033,263,O,267,H,263-O-267-H	1073,268,OE2,271,HZ2,268-OE2-271-HZ2
1034,263,O,263,HE21,263-O-263-HE21	1074,268,O,271,HZ3,268-O-271-HZ3
1035,263,OE1,264,HZ3,263-OE1-264-HZ3	1075,268,OE1,264,HZ2,268-OE1-264-HZ2
1036,263,OE1,259,HH,263-OE1-259-HH	1076,268,OE1,271,HZ2,268-OE1-271-HZ2

1077,268,O,271,HZ2,268-O-271-HZ2	1117,274,O,276,H,274-O-276-H
1078,268,O,272,H,268-O-272-H	1118,275,O,277,H,275-O-277-H
1079,268,O,271,HZ1,268-O-271-HZ1	1119,276,O,278,H,276-O-278-H
1080,268,OE2,205,HH11,268-OE2-205-HH11	1120,277,ND1,278,H,277-ND1-278-H
1081,268,OE2,205,HH22,268-OE2-205-HH22	1121,280,OD1,282,HG1,280-OD1-282-HG1
1082,268,OE2,267,HZ1,268-OE2-267-HZ1	1122,280,OD2,282,HG1,280-OD2-282-HG1
1083,268,O,271,H,268-O-271-H	1123,280,O,284,HG,280-O-284-HG
1084,268,OE2,267,HZ3,268-OE2-267-HZ3	1124,280,OD1,205,HH21,280-OD1-205-HH21
1085,268,OE1,205,HH22,268-OE1-205-HH22	1125,280,OD2,283,H,280-OD2-283-H
1086,268,OE2,205,HH12,268-OE2-205-HH12	1126,280,OD2,282,H,280-OD2-282-H
1087,268,OE1,269,HE2,268-OE1-269-HE2	1127,280,OD1,283,H,280-OD1-283-H
1088,268,OE1,205,HH11,268-OE1-205-HH11	1128,280,OD1,282,H,280-OD1-282-H
1089,268,O,272,HG1,268-O-272-HG1	1129,280,O,284,H,280-O-284-H
1090,268,OE2,271,HZ1,268-OE2-271-HZ1	1130,280,OD2,269,HE2,280-OD2-269-HE2
1091,268,OE2,205,HE,268-OE2-205-HE	1131,280,OD1,269,HE2,280-OD1-269-HE2
1092,269,O,273,H,269-O-273-H	1132,280,O,283,H,280-O-283-H
1093,269,O,279,HH22,269-O-279-HH22	1133,281,O,284,H,281-O-284-H
1094,269,O,279,HH12,269-O-279-HH12	1134,281,O,284,HG,281-O-284-HG
1095,269,O,272,H,269-O-272-H	1135,281,O,285,H,281-O-285-H
1096,269,ND1,205,HH12,269-ND1-205-HH12	1136,282,O,286,H,282-O-286-H
1097,269,O,272,HG1,269-O-272-HG1	1137,282,O,285,H,282-O-285-H
1098,269,ND1,205,HH21,269-ND1-205-HH21	1138,283,O,286,H,283-O-286-H
1099,269,ND1,205,HH22,269-ND1-205-HH22	1139,283,OD2,279,HH21,283-OD2-279-HH21
1100,270,O,272,H,270-O-272-H	1140,283,OD1,279,HH21,283-OD1-279-HH21
1101,270,O,273,H,270-O-273-H	1141,283,OD2,279,H,283-OD2-279-H
1102,270,OH,290,HE21,270-OH-290-HE21	1142,283,O,287,H,283-O-287-H
1103,270,OH,293,HE22,270-OH-293-HE22	1143,283,OD1,279,HE,283-OD1-279-HE
1104,271,O,273,H,271-O-273-H	1144,283,OD1,269,HE2,283-OD1-269-HE2
1105,271,O,271,HZ1,271-O-271-HZ1	1145,283,OD2,279,HE,283-OD2-279-HE
1106,272,OG1,279,HH12,272-OG1-279-HH12	1146,284,O,284,HG,284-O-284-HG
1107,272,O,279,HH22,272-O-279-HH22	1147,284,O,287,H,284-O-287-H
1108,272,OG1,279,HH22,272-OG1-279-HH22	1148,284,O,288,H,284-O-288-H
1109,272,O,279,HH12,272-O-279-HH12	1149,285,O,288,H,285-O-288-H
1110,274,OE2,275,H,274-OE2-275-H	1150,285,O,289,H,285-O-289-H
1111,274,O,277,H,274-O-277-H	1151,286,O,289,H,286-O-289-H
1112,274,OE1,275,H,274-OE1-275-H	1152,286,O,290,H,286-O-290-H
1113,274,OE2,276,H,274-OE2-276-H	1153,286,O,290,HE21,286-O-290-HE21
1114,274,OE1,277,H,274-OE1-277-H	1154,286,O,290,HE22,286-O-290-HE22
1115,274,O,278,H,274-O-278-H	1155,287,OE1,275,HZ2,287-OE1-275-HZ2
1116,274,OE1,276,H,274-OE1-276-H	1156,287,OE2,284,HG,287-OE2-284-HG

1157,287,O,291,H,287-O-291-H	1197,291,OE2,275,HZ1,291-OE2-275-HZ1
1158,287,OE2,275,HZ1,287-OE2-275-HZ1	1198,291,OE1,290,HE22,291-OE1-290-HE22
1159,287,OE2,290,HE21,287-OE2-290-HE21	1199,291,OE1,293,HE22,291-OE1-293-HE22
1160,287,OE2,275,HZ2,287-OE2-275-HZ2	1200,291,OE2,293,HE22,291-OE2-293-HE22
1161,287,OE1,275,HZ3,287-OE1-275-HZ3	1201,291,OE2,275,HZ3,291-OE2-275-HZ3
1162,287,OE2,275,HZ3,287-OE2-275-HZ3	1202,291,O,293,H,291-O-293-H
1163,287,O,290,H,287-O-290-H	1203,291,OE1,290,HE21,291-OE1-290-HE21
1164,287,OE1,275,HZ1,287-OE1-275-HZ1	1204,291,OE1,275,HZ3,291-OE1-275-HZ3
1165,287,O,275,HZ3,287-O-275-HZ3	1205,291,OE1,275,HZ2,291-OE1-275-HZ2
1166,288,O,292,HZ1,288-O-292-HZ1	1206,292,O,294,H,292-O-294-H
1167,288,O,292,HZ3,288-O-292-HZ3	1207,292,O,299,HD22,292-O-299-HD22
1168,288,O,292,HZ2,288-O-292-HZ2	1208,292,O,295,H,292-O-295-H
1169,288,O,292,H,288-O-292-H	1209,292,O,297,HD22,292-O-297-HD22
1170,288,O,291,H,288-O-291-H	1210,293,OE1,290,HE22,293-OE1-290-HE22
1171,289,O,292,HZ2,289-O-292-HZ2	1211,293,OE1,293,H,293-OE1-293-H
1172,289,O,293,H,289-O-293-H	1212,293,OE1,290,HE21,293-OE1-290-HE21
1173,289,O,292,HZ3,289-O-292-HZ3	1213,293,O,293,HE21,293-O-293-HE21
1174,289,O,292,HZ1,289-O-292-HZ1	1214,293,O,295,H,293-O-295-H
1175,289,O,293,HE21,289-O-293-HE21	1215,295,OD2,297,H,295-OD2-297-H
1176,289,O,292,H,289-O-292-H	1216,295,OD1,299,H,295-OD1-299-H
1177,290,O,293,HE21,290-O-293-HE21	1217,295,OD2,288,HE2,295-OD2-288-HE2
1178,290,O,292,H,290-O-292-H	1218,295,OD1,298,H,295-OD1-298-H
1179,290,OE1,275,HZ1,290-OE1-275-HZ1	1219,295,OD2,297,HD21,295-OD2-297-HD21
1180,290,NE2,275,HZ2,290-NE2-275-HZ2	1220,295,OD2,136,HE,295-OD2-136-HE
1181,290,OE1,293,HE21,290-OE1-293-HE21	1221,295,OD1,136,HE,295-OD1-136-HE
1182,290,O,293,HE22,290-O-293-HE22	1222,295,O,298,H,295-O-298-H
1183,290,OE1,293,HE22,290-OE1-293-HE22	1223,295,OD2,136,HH21,295-OD2-136-HH21
1184,290,OE1,275,HZ3,290-OE1-275-HZ3	1224,295,OD2,296,H,295-OD2-296-H
1185,290,O,290,HE21,290-O-290-HE21	1225,295,O,297,H,295-O-297-H
1186,290,O,294,H,290-O-294-H	1226,295,OD1,136,HH21,295-OD1-136-HH21
1187,290,OE1,270,HH,290-OE1-270-HH	1227,295,OD2,299,HD21,295-OD2-299-HD21
1188,290,O,293,H,290-O-293-H	1228,295,OD1,299,HD22,295-OD1-299-HD22
1189,290,NE2,275,HZ1,290-NE2-275-HZ1	1229,295,OD1,297,HD21,295-OD1-297-HD21
1190,290,OE1,275,HZ2,290-OE1-275-HZ2	1230,295,O,297,HD21,295-O-297-HD21
1191,291,O,295,H,291-O-295-H	1231,295,OD1,297,H,295-OD1-297-H
1192,291,OE2,290,HE21,291-OE2-290-HE21	1232,295,OD1,288,HE2,295-OD1-288-HE2
1193,291,OE2,290,HE22,291-OE2-290-HE22	1233,295,OD1,299,HD21,295-OD1-299-HD21
1194,291,O,294,H,291-O-294-H	1234,295,OD1,296,H,295-OD1-296-H
1195,291,OE1,275,HZ1,291-OE1-275-HZ1	1235,296,OE2,297,HD22,296-OE2-297-HD22
1196,291,OE2,275,HZ2,291-OE2-275-HZ2	1236,296,OE2,140,HD21,296-OE2-140-HD21

1237,296,O,297,HD21,296-O-297-HD21	1277,299,O,297,HD22,299-O-297-HD22
1238,296,OE1,140,HD21,296-OE1-140-HD21	1278,299,OD1,136,HH22,299-OD1-136-HH22
1239,296,OE2,297,HD21,296-OE2-297-HD21	1279,299,OD1,301,H,299-OD1-301-H
1240,296,O,298,H,296-O-298-H	1280,299,OD1,301,HE21,299-OD1-301-HE21
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1242,296,OE2,136,HH22,296-OE2-136-HH22	1282,300,O,303,H,300-O-303-H
1243,296,OE2,136,HH12,296-OE2-136-HH12	1283,300,O,306,HZ1,300-O-306-HZ1
1244,296,OE1,296,H,296-OE1-296-H	1284,300,O,301,HE21,300-O-301-HE21
1245,296,OE1,136,HH11,296-OE1-136-HH11	1285,300,O,302,H,300-O-302-H
1246,296,OE2,296,H,296-OE2-296-H	1286,300,O,292,HZ2,300-O-292-HZ2
1247,296,OE1,136,HH22,296-OE1-136-HH22	1287,300,O,306,HZ3,300-O-306-HZ3
1248,296,OE1,297,HD21,296-OE1-297-HD21	1288,300,O,292,HZ1,300-O-292-HZ1
1249,297,OD1,136,HH12,297-OD1-136-HH12	1289,300,O,306,HZ2,300-O-306-HZ2
1250,297,O,297,HD21,297-O-297-HD21	1290,300,O,303,HG,300-O-303-HG
1251,297,OD1,301,HE22,297-OD1-301-HE22	1291,300,O,292,HZ3,300-O-292-HZ3
1252,297,OD1,299,H,297-OD1-299-H	1292,301,O,306,HZ2,301-O-306-HZ2
1253,297,O,299,HD22,297-O-299-HD22	1293,301,OE1,299,HD22,301-OE1-299-HD22
1254,297,ND2,136,HH22,297-ND2-136-HH22	1294,301,OE1,306,HZ3,301-OE1-306-HZ3
1255,297,OD1,299,HD22,297-OD1-299-HD22	1295,301,OE1,119,HE22,301-OE1-119-HE22
1256,297,OD1,292,HZ1,297-OD1-292-HZ1	1296,301,O,306,HZ3,301-O-306-HZ3
1257,297,OD1,136,HH22,297-OD1-136-HH22	1297,301,OE1,306,HZ2,301-OE1-306-HZ2
1258,297,O,299,H,297-O-299-H	1298,301,OE1,301,H,301-OE1-301-H
1259,297,OD1,136,HH21,297-OD1-136-HH21	1299,301,O,301,HE21,301-O-301-HE21
1260,297,ND2,297,H,297-ND2-297-H	1300,301,OE1,297,HD22,301-OE1-297-HD22
1261,297,OD1,299,HD21,297-OD1-299-HD21	1301,301,OE1,299,HD21,301-OE1-299-HD21
1262,297,OD1,298,H,297-OD1-298-H	1302,301,O,306,HZ1,301-O-306-HZ1
1263,297,ND2,299,H,297-ND2-299-H	1303,301,O,303,H,301-O-303-H
1264,297,OD1,292,HZ3,297-OD1-292-HZ3	1304,301,O,303,HG,301-O-303-HG
1265,298,O,292,HZ2,298-O-292-HZ2	1305,301,OE1,300,H,301-OE1-300-H
1266,298,O,292,HZ1,298-O-292-HZ1	1306,302,O,292,HZ1,302-O-292-HZ1
1267,298,O,292,HZ3,298-O-292-HZ3	1307,302,O,292,HZ2,302-O-292-HZ2
1268,298,O,300,H,298-O-300-H	1308,302,O,292,HZ3,302-O-292-HZ3
1269,299,O,292,HZ1,299-O-292-HZ1	1309,302,O,288,HE2,302-O-288-HE2
1270,299,O,302,H,299-O-302-H	1310,303,O,288,HE2,303-O-288-HE2
1271,299,O,292,HZ2,299-O-292-HZ2	1311,303,O,306,H,303-O-306-H
1272,299,OD1,297,HD21,299-OD1-297-HD21	1312,303,OG,306,HZ2,303-OG-306-HZ2
1273,299,OD1,299,H,299-OD1-299-H	1313,303,OG,306,HZ3,303-OG-306-HZ3
1274,299,O,292,HZ3,299-O-292-HZ3	1314,303,OG,306,HZ1,303-OG-306-HZ1
1275,299,OD1,288,HE2,299-OD1-288-HE2	1315,303,O,307,H,303-O-307-H
1276,299,OD1,302,H,299-OD1-302-H	1316,303,OG,306,H,303-OG-306-H

1317,303,OG,305,H,303-OG-305-H	1357,305,OE1,267,HZ1,305-OE1-267-HZ1
1318,303,OG,292,HZ2,303-OG-292-HZ2	1358,305,OE1,267,HZ2,305-OE1-267-HZ2
1319,304,OD2,293,HE22,304-OD2-293-HE22	1359,305,O,309,H,305-O-309-H
1320,304,OD1,270,HH,304-OD1-270-HH	1360,305,OE2,306,HZ3,305-OE2-306-HZ3
1321,304,O,307,H,304-O-307-H	1361,305,OE1,306,HZ3,305-OE1-306-HZ3
1322,304,OD2,290,HE22,304-OD2-290-HE22	1362,305,OE2,305,H,305-OE2-305-H
1323,304,OD2,292,HZ2,304-OD2-292-HZ2	1363,305,O,307,H,305-O-307-H
1324,304,OD1,293,HE22,304-OD1-293-HE22	1364,305,O,117,HD22,305-O-117-HD22
1325,304,OD1,305,H,304-OD1-305-H	1365,305,OE1,259,HH,305-OE1-259-HH
1326,304,OD1,293,HE21,304-OD1-293-HE21	1366,305,OE1,119,HE22,305-OE1-119-HE22
1327,304,OD1,304,H,304-OD1-304-H	1367,305,OE2,119,HE22,305-OE2-119-HE22
1328,304,OD2,305,H,304-OD2-305-H	1368,305,OE1,117,HD21,305-OE1-117-HD21
1329,304,OD2,292,HZ3,304-OD2-292-HZ3	1369,305,OE2,263,HE21,305-OE2-263-HE21
1330,304,OD1,292,HZ3,304-OD1-292-HZ3	1370,305,OE1,117,HD22,305-OE1-117-HD22
1331,304,OD2,292,HZ1,304-OD2-292-HZ1	1371,305,OE1,119,HE21,305-OE1-119-HE21
1332,304,OD1,292,HZ1,304-OD1-292-HZ1	1372,305,OE2,117,HD22,305-OE2-117-HD22
1333,304,OD2,304,H,304-OD2-304-H	1373,305,OE1,305,H,305-OE1-305-H
1334,304,OD2,270,HH,304-OD2-270-HH	1374,305,OE2,303,HG,305-OE2-303-HG
1335,304,O,308,H,304-O-308-H	1375,306,O,309,H,306-O-309-H
1336,304,OD2,288,HE2,304-OD2-288-HE2	1376,306,O,134,HH21,306-O-134-HH21
1337,304,OD1,292,HZ2,304-OD1-292-HZ2	1377,306,O,119,HE21,306-O-119-HE21
1338,305,OE2,259,HH,305-OE2-259-HH	1378,306,O,134,HE,306-O-134-HE
1339,305,OE1,267,HZ3,305-OE1-267-HZ3	1379,307,O,310,H,307-O-310-H
1340,305,OE2,267,HZ1,305-OE2-267-HZ1	1380,308,O,311,H,308-O-311-H
1341,305,OE2,306,HZ1,305-OE2-306-HZ1	1381,309,OD1,134,HE,309-OD1-134-HE
1342,305,OE2,309,HD21,305-OE2-309-HD21	1382,309,O,313,H,309-O-313-H
1343,305,OE1,263,HE22,305-OE1-263-HE22	1383,309,OD1,263,HE22,309-OD1-263-HE22
1344,305,OE1,306,HZ1,305-OE1-306-HZ1	1384,309,O,312,H,309-O-312-H
1345,305,OE2,267,HZ2,305-OE2-267-HZ2	1385,309,OD1,134,HH21,309-OD1-134-HH21
1346,305,OE2,119,HE21,305-OE2-119-HE21	1386,309,OD1,134,HH22,309-OD1-134-HH22
1347,305,OE1,306,HZ2,305-OE1-306-HZ2	1387,309,ND2,134,HH21,309-ND2-134-HH21
1348,305,OE2,306,HZ2,305-OE2-306-HZ2	1388,309,OD1,306,HZ1,309-OD1-306-HZ1
1349,305,OE1,303,HG,305-OE1-303-HG	1389,309,OD1,119,HE22,309-OD1-119-HE22
1350,305,OE2,263,HE22,305-OE2-263-HE22	1390,309,O,309,HD22,309-O-309-HD22
1351,305,OE1,306,H,305-OE1-306-H	1391,309,OD1,116,HG,309-OD1-116-HG
1352,305,OE2,117,HD21,305-OE2-117-HD21	1392,309,OD1,119,HE21,309-OD1-119-HE21
1353,305,O,309,HD21,305-O-309-HD21	1393,309,OD1,117,HD21,309-OD1-117-HD21
1354,305,O,309,HD22,305-O-309-HD22	1394,309,OD1,259,HH,309-OD1-259-HH
1355,305,OE2,267,HZ3,305-OE2-267-HZ3	1395,309,OD1,263,HE21,309-OD1-263-HE21
1356,305,OE1,309,HD21,305-OE1-309-HD21	1396,310,O,313,H,310-O-313-H

1397,310,O,314,H,310-O-314-H	1437,320,O,324,H,320-O-324-H
1398,311,O,315,H,311-O-315-H	1438,320,OD1,187,HH,320-OD1-187-HH
1399,311,O,314,H,311-O-314-H	1439,320,OD2,499,HZ3,320-OD2-499-HZ3
1400,312,O,316,H,312-O-316-H	1440,320,OD2,499,HZ2,320-OD2-499-HZ2
1401,312,O,516,H17,312-O-516-H17	1441,320,O,324,HG1,320-O-324-HG1
1402,313,O,317,H,313-O-317-H	1442,320,OD1,499,HZ3,320-OD1-499-HZ3
1403,313,OD1,134,HH22,313-OD1-134-HH22	1443,320,OD2,499,HZ1,320-OD2-499-HZ1
1404,313,OD1,134,HH21,313-OD1-134-HH21	1444,320,OD1,499,HZ2,320-OD1-499-HZ2
1405,313,O,316,H,313-O-316-H	1445,320,OD2,187,HH,320-OD2-187-HH
1406,313,OD2,134,HH12,313-OD2-134-HH12	1446,320,OD1,499,HZ1,320-OD1-499-HZ1
1407,313,OD1,134,HH12,313-OD1-134-HH12	1447,320,OD2,516,H10,320-OD2-516-H10
1408,313,OD1,116,HG,313-OD1-116-HG	1448,320,OD1,222,HD22,320-OD1-222-HD22
1409,313,OD1,309,HD22,313-OD1-309-HD22	1449,320,OD1,497,HG1,320-OD1-497-HG1
1410,313,OD1,120,HG,313-OD1-120-HG	1450,320,OD2,497,HG1,320-OD2-497-HG1
1411,313,OD1,121,H,313-OD1-121-H	1451,321,O,325,H,321-O-325-H
1412,313,OD2,120,HG,313-OD2-120-HG	1452,321,O,324,H,321-O-324-H
1413,313,OD2,309,HD21,313-OD2-309-HD21	1453,322,O,325,H,322-O-325-H
1414,313,OD2,116,HG,313-OD2-116-HG	1454,322,O,326,H,322-O-326-H
1415,313,OD1,122,H,313-OD1-122-H	1455,323,O,326,H,323-O-326-H
1416,313,OD2,309,HD22,313-OD2-309-HD22	1456,323,O,327,HG,323-O-327-HG
1417,313,OD1,309,HD21,313-OD1-309-HD21	1457,323,O,327,H,323-O-327-H
1418,313,OD2,122,H,313-OD2-122-H	1458,324,O,328,H,324-O-328-H
1419,313,OD2,121,H,313-OD2-121-H	1459,324,OG1,499,HZ2,324-OG1-499-HZ2
1420,313,OD2,134,HE,313-OD2-134-HE	1460,324,OG1,499,HZ3,324-OG1-499-HZ3
1421,313,OD1,134,HE,313-OD1-134-HE	1461,324,O,327,HG,324-O-327-HG
1422,313,OD2,134,HH22,313-OD2-134-HH22	1462,324,O,327,H,324-O-327-H
1423,313,OD2,134,HH21,313-OD2-134-HH21	1463,324,OG1,499,HZ1,324-OG1-499-HZ1
1424,314,O,318,H,314-O-318-H	1464,325,O,329,HG,325-O-329-HG
1425,314,O,317,H,314-O-317-H	1465,325,O,329,H,325-O-329-H
1426,315,O,319,H,315-O-319-H	1466,326,O,330,H,326-O-330-H
1427,315,O,318,H,315-O-318-H	1467,326,O,329,HG,326-O-329-HG
1428,315,O,317,H,315-O-317-H	1468,326,O,329,H,326-O-329-H
1429,316,O,516,H17,316-O-516-H17	1469,327,O,327,HG,327-O-327-HG
1430,317,O,321,HG1,317-O-321-HG1	1470,327,O,331,H,327-O-331-H
1431,317,O,319,H,317-O-319-H	1471,328,O,331,H,328-O-331-H
1432,318,O,321,H,318-O-321-H	1472,328,O,332,H,328-O-332-H
1433,318,O,322,H,318-O-322-H	1473,329,O,333,H,329-O-333-H
1434,318,O,321,HG1,318-O-321-HG1	1474,330,O,334,H,330-O-334-H
1435,319,O,323,H,319-O-323-H	1475,330,O,333,H,330-O-333-H
1436,319,O,323,HG1,319-O-323-HG1	1476,331,O,334,H,331-O-334-H

1477,331,O,335,H,331-O-335-H	1517,345,OE1,342,HZ1,345-OE1-342-HZ1
1478,332,O,336,HD22,332-O-336-HD22	1518,345,OE2,341,HH11,345-OE2-341-HH11
1479,332,O,335,H,332-O-335-H	1519,345,OE2,341,HE,345-OE2-341-HE
1480,332,O,336,H,332-O-336-H	1520,345,O,349,H,345-O-349-H
1481,333,O,336,H,333-O-336-H	1521,345,OE2,342,HZ3,345-OE2-342-HZ3
1482,333,O,340,HE21,333-O-340-HE21	1522,345,OE2,342,HZ1,345-OE2-342-HZ1
1483,335,O,336,HD22,335-O-336-HD22	1523,345,OE2,342,HZ2,345-OE2-342-HZ2
1484,336,OD1,339,H,336-OD1-339-H	1524,345,OE1,341,HH12,345-OE1-341-HH12
1485,336,OD1,338,HE,336-OD1-338-HE	1525,345,OE2,341,HH22,345-OE2-341-HH22
1486,336,O,339,H,336-O-339-H	1526,345,OE1,341,HH22,345-OE1-341-HH22
1487,336,OD1,338,H,336-OD1-338-H	1527,345,OE2,341,HH12,345-OE2-341-HH12
1488,336,O,340,H,336-O-340-H	1528,345,OE1,342,HZ3,345-OE1-342-HZ3
1489,337,O,341,H,337-O-341-H	1529,345,OE2,341,HH21,345-OE2-341-HH21
1490,337,O,340,H,337-O-340-H	1530,345,OE1,342,HZ2,345-OE1-342-HZ2
1491,338,O,338,HH11,338-O-338-HH11	1531,346,OE2,342,HZ3,346-OE2-342-HZ3
1492,338,O,342,H,338-O-342-H	1532,346,OE1,342,HZ3,346-OE1-342-HZ3
1493,339,O,343,H,339-O-343-H	1533,346,OE2,342,HZ1,346-OE2-342-HZ1
1494,339,O,342,H,339-O-342-H	1534,346,O,350,H,346-O-350-H
1495,340,O,344,H,340-O-344-H	1535,346,OE1,367,H,346-OE1-367-H
1496,340,OE1,344,HE22,340-OE1-344-HE22	1536,346,OE1,368,H,346-OE1-368-H
1497,340,OE1,480,H,340-OE1-480-H	1537,346,O,349,H,346-O-349-H
1498,340,O,343,H,340-O-343-H	1538,346,OE1,342,HZ1,346-OE1-342-HZ1
1499,341,O,345,H,341-O-345-H	1539,346,OE1,342,HZ2,346-OE1-342-HZ2
1500,341,O,341,HH11,341-O-341-HH11	1540,346,OE2,367,H,346-OE2-367-H
1501,342,O,345,H,342-O-345-H	1541,346,OE2,342,HZ2,346-OE2-342-HZ2
1502,342,O,346,H,342-O-346-H	1542,347,O,350,H,347-O-350-H
1503,342,O,342,HZ1,342-O-342-HZ1	1543,347,O,352,H,347-O-352-H
1504,343,O,346,H,343-O-346-H	1544,347,O,351,H,347-O-351-H
1505,343,O,347,H,343-O-347-H	1545,348,OD1,353,HE,348-OD1-353-HE
1506,344,O,511,HH12,344-O-511-HH12	1546,348,OD2,511,HH22,348-OD2-511-HH22
1507,344,OE1,341,HH11,344-OE1-341-HH11	1547,348,OD1,511,HH12,348-OD1-511-HH12
1508,344,OE1,341,HE,344-OE1-341-HE	1548,348,OD2,511,HH12,348-OD2-511-HH12
1509,344,O,348,H,344-O-348-H	1549,348,OD1,353,HH21,348-OD1-353-HH21
1510,344,O,511,HH22,344-O-511-HH22	1550,348,OD1,511,HH22,348-OD1-511-HH22
1511,344,OE1,341,HH21,344-OE1-341-HH21	1551,348,OD2,353,HE,348-OD2-353-HE
1512,345,OE2,338,HH12,345-OE2-338-HH12	1552,348,O,352,H,348-O-352-H
1513,345,OE1,338,HH22,345-OE1-338-HH22	1553,348,OD2,353,HH21,348-OD2-353-HH21
1514,345,OE2,338,HH22,345-OE2-338-HH22	1554,350,O,355,HH21,350-O-355-HH21
1515,345,OE1,338,HH12,345-OE1-338-HH12	1555,350,O,355,HH22,350-O-355-HH22
1516,345,O,349,HG1,345-O-349-HG1	1556,351,O,355,HH11,351-O-355-HH11

1557,351,O,355,HH21,351-O-355-HH21	1597,361,OD1,358,HH11,361-OD1-358-HH11
1558,351,O,354,HG,351-O-354-HG	1598,362,O,365,H,362-O-365-H
1559,351,O,355,HE,351-O-355-HE	1599,362,NH1,465,HE1,362-NH1-465-HE1
1560,352,O,355,H,352-O-355-H	1600,364,ND1,363,HG,364-ND1-363-HG
1561,352,O,476,HE21,352-O-476-HE21	1601,364,ND1,364,H,364-ND1-364-H
1562,352,O,354,H,352-O-354-H	1602,365,O,369,H,365-O-369-H
1563,353,O,477,HH21,353-O-477-HH21	1603,365,O,368,H,365-O-368-H
1564,353,O,477,HH22,353-O-477-HH22	1604,366,O,369,H,366-O-369-H
1565,353,O,476,HE21,353-O-476-HE21	1605,366,O,370,H,366-O-370-H
1566,353,O,477,HH12,353-O-477-HH12	1606,367,O,371,H,367-O-371-H
1567,354,OG,355,H,354-OG-355-H	1607,367,OH,342,HZ3,367-OH-342-HZ3
1568,355,O,476,HE22,355-O-476-HE22	1608,368,O,372,H,368-O-372-H
1569,355,O,476,HE21,355-O-476-HE21	1609,369,OE1,362,HH21,369-OE1-362-HH21
1570,356,O,355,HE,356-O-355-HE	1610,369,OE2,362,HE,369-OE2-362-HE
1571,356,O,355,HH11,356-O-355-HH11	1611,369,OE1,464,HH21,369-OE1-464-HH21
1572,356,O,355,HH21,356-O-355-HH21	1612,369,OE2,464,HH21,369-OE2-464-HH21
1573,357,O,356,HH11,357-O-356-HH11	1613,369,OE2,362,HH21,369-OE2-362-HH21
1574,358,NH2,360,HG,358-NH2-360-HG	1614,369,OE2,441,HZ2,369-OE2-441-HZ2
1575,358,O,361,H,358-O-361-H	1615,369,OE1,362,HH22,369-OE1-362-HH22
1576,359,O,362,HH11,359-O-362-HH11	1616,369,OE1,362,HH12,369-OE1-362-HH12
1577,359,O,362,H,359-O-362-H	1617,369,OE2,362,HH22,369-OE2-362-HH22
1578,360,OG,358,HE,360-OG-358-HE	1618,369,OE1,464,HE,369-OE1-464-HE
1579,360,O,363,HG,360-O-363-HG	1619,369,O,372,H,369-O-372-H
1580,360,O,360,HG,360-O-360-HG	1620,369,OE2,464,HE,369-OE2-464-HE
1581,360,O,363,H,360-O-363-H	1621,369,OE1,362,HE,369-OE1-362-HE
1582,361,OD2,358,HH21,361-OD2-358-HH21	1622,369,O,373,H,369-O-373-H
1583,361,OD1,360,HG,361-OD1-360-HG	1623,370,O,374,H,370-O-374-H
1584,361,OD1,364,HE2,361-OD1-364-HE2	1624,371,O,374,H,371-O-374-H
1585,361,OD2,355,HE,361-OD2-355-HE	1625,371,O,375,H,371-O-375-H
1586,361,OD1,355,HH12,361-OD1-355-HH12	1626,371,O,375,HG1,371-O-375-HG1
1587,361,OD1,358,HH21,361-OD1-358-HH21	1627,372,O,376,H,372-O-376-H
1588,361,OD2,355,HH22,361-OD2-355-HH22	1628,373,O,377,H,373-O-377-H
1589,361,O,364,H,361-O-364-H	1629,374,OE1,377,HE,374-OE1-377-HE
1590,361,OD2,358,HE,361-OD2-358-HE	1630,374,OE2,431,HH22,374-OE2-431-HH22
1591,361,O,365,H,361-O-365-H	1631,374,OE2,431,HH12,374-OE2-431-HH12
1592,361,OD2,358,H,361-OD2-358-H	1632,374,OE2,377,HE,374-OE2-377-HE
1593,361,OD1,355,HH22,361-OD1-355-HH22	1633,374,OE2,377,HH21,374-OE2-377-HH21
1594,361,OD2,355,HH12,361-OD2-355-HH12	1634,374,O,378,H,374-O-378-H
1595,361,OD1,358,HE,361-OD1-358-HE	1635,374,OE1,431,HH11,374-OE1-431-HH11
1596,361,OD2,355,HH21,361-OD2-355-HH21	1636,374,OE1,431,HH12,374-OE1-431-HH12

1637,374,OE1,431,HH22,374-OE1-431-HH22	1677,391,O,403,HZ2,391-O-403-HZ2
1638,374,OE1,377,HH21,374-OE1-377-HH21	1678,391,OG1,392,HE,391-OG1-392-HE
1639,374,OE2,431,HH11,374-OE2-431-HH11	1679,391,O,403,HZ1,391-O-403-HZ1
1640,374,OE2,428,H,374-OE2-428-H	1680,391,OG1,104,HZ2,391-OG1-104-HZ2
1641,375,O,379,HG,375-O-379-HG	1681,391,OG1,104,H,391-OG1-104-H
1642,375,O,379,H,375-O-379-H	1682,391,OG1,105,H,391-OG1-105-H
1643,375,OG1,329,HG,375-OG1-329-HG	1683,393,OD1,393,H,393-OD1-393-H
1644,376,O,380,H,376-O-380-H	1684,393,OD1,403,HZ1,393-OD1-403-HZ1
1645,377,O,416,HE2,377-O-416-HE2	1685,393,OD2,403,H,393-OD2-403-H
1646,377,O,380,HG,377-O-380-HG	1686,393,OD1,403,HZ3,393-OD1-403-HZ3
1647,378,ND1,332,HH,378-ND1-332-HH	1687,393,OD2,400,HH,393-OD2-400-HH
1648,378,O,416,HE2,378-O-416-HE2	1688,393,OD1,403,H,393-OD1-403-H
1649,379,OG,381,H,379-OG-381-H	1689,393,OD1,403,HZ2,393-OD1-403-HZ2
1650,379,O,412,HE1,379-O-412-HE1	1690,393,OD2,403,HZ1,393-OD2-403-HZ1
1651,380,O,382,H,380-O-382-H	1691,393,OD2,393,H,393-OD2-393-H
1652,380,OG,415,HD22,380-OG-415-HD22	1692,393,OD1,400,HH,393-OD1-400-HH
1653,380,OG,416,HE2,380-OG-416-HE2	1693,393,OD2,403,HZ3,393-OD2-403-HZ3
1654,381,O,498,H,381-O-498-H	1694,393,OD2,403,HZ2,393-OD2-403-HZ2
1655,382,O,411,HE21,382-O-411-HE21	1695,394,OG1,99,HE21,394-OG1-99-HE21
1656,383,O,411,H,383-O-411-H	1696,394,OG1,395,H,394-OG1-395-H
1657,383,O,412,H,383-O-412-H	1697,394,O,401,H,394-O-401-H
1658,384,O,411,HE21,384-O-411-HE21	1698,394,O,395,HG,394-O-395-HG
1659,385,O,385,HG1,385-O-385-HG1	1699,395,O,94,HE21,395-O-94-HE21
1660,385,O,230,HG,385-O-230-HG	1700,395,O,99,HE21,395-O-99-HE21
1661,385,OG1,409,H,385-OG1-409-H	1701,395,O,99,HE22,395-O-99-HE22
1662,386,O,388,HD1,386-O-388-HD1	1702,396,O,399,H,396-O-399-H
1663,386,O,106,HH12,386-O-106-HH12	1703,397,O,38,HZ3,397-O-38-HZ3
1664,386,O,385,HG1,386-O-385-HG1	1704,397,O,399,H,397-O-399-H
1665,387,O,106,HH11,387-O-106-HH11	1705,397,O,38,HZ1,397-O-38-HZ1
1666,388,O,389,HG,388-O-389-HG	1706,398,O,38,HZ1,398-O-38-HZ1
1667,388,O,407,H,388-O-407-H	1707,398,O,38,H,398-O-38-H
1668,388,NE2,385,HG1,388-NE2-385-HG1	1708,398,O,38,HZ2,398-O-38-HZ2
1669,389,O,105,H,389-O-105-H	1709,398,O,38,HZ3,398-O-38-HZ3
1670,390,OG1,405,H,390-OG1-405-H	1710,399,O,396,H,399-O-396-H
1671,390,OG1,404,H,390-OG1-404-H	1711,399,O,395,HG,399-O-395-HG
1672,390,O,404,H,390-O-404-H	1712,400,O,39,HD22,400-O-39-HD22
1673,390,O,403,HZ3,390-O-403-HZ3	1713,401,O,394,H,401-O-394-H
1674,391,O,403,HZ3,391-O-403-HZ3	1714,402,O,390,HG1,402-O-390-HG1
1675,391,OG1,104,HZ1,391-OG1-104-HZ1	1715,402,O,405,H,402-O-405-H
1676,391,OG1,104,HZ3,391-OG1-104-HZ3	1716,403,O,405,HH11,403-O-405-HH11

1717,404,O,405,HH11,404-O-405-HH11
1718,405,O,390,H,405-O-390-H
1719,405,O,389,HG,405-O-389-HG
1720,405,O,390,HG1,405-O-390-HG1
1721,405,NH2,75,HE22,405-NH2-75-HE22
1722,406,O,84,H,406-O-84-H
1723,407,O,388,H,407-O-388-H
1724,408,O,86,H,408-O-86-H
1725,409,O,411,H,409-O-411-H
1726,409,O,385,H,409-O-385-H
1727,410,OD1,412,H,410-OD1-412-H
1728,410,OD1,413,H,410-OD1-413-H
1729,410,O,413,H,410-O-413-H
1730,410,O,414,H,410-O-414-H
1731,411,O,415,HD22,411-O-415-HD22
1732,411,OE1,451,H,411-OE1-451-H
1733,411,O,415,H,411-O-415-H
1734,411,O,414,H,411-O-414-H
1735,412,O,415,H,412-O-415-H
1736,412,O,416,H,412-O-416-H
1737,413,OE1,68,HE21,413-OE1-68-HE21
1738,413,OE1,410,HD22,413-OE1-410-HD22
1739,413,NE2,68,HE22,413-NE2-68-HE22
1740,413,OE1,64,HG,413-OE1-64-HG
1741,413,O,417,H,413-O-417-H
1742,413,O,413,HE21,413-O-413-HE21
1743,413,O,416,H,413-O-416-H
1744,413,NE2,87,HG,413-NE2-87-HG
1745,413,OE1,68,HE22,413-OE1-68-HE22
1746,413,OE1,87,HG,413-OE1-87-HG
1747,413,OE1,67,HG,413-OE1-67-HG
1748,414,O,421,HE1,414-O-421-HE1
1749,414,O,417,H,414-O-417-H
1750,415,OD1,448,H,415-OD1-448-H
1751,415,O,377,HH11,415-O-377-HH11
1752,416,ND1,377,HH12,416-ND1-377-HH12
1753,416,O,418,HE21,416-O-418-HE21
1754,417,OD2,419,H,417-OD2-419-H
1755,417,O,419,H,417-O-419-H
1756,417,OD1,419,HZ3,417-OD1-419-HZ3
1757,417,OD2,419,HZ1,417-OD2-419-HZ1
1758,417,OD1,418,HE21,417-OD1-418-HE21
1759,417,OD2,419,HZ2,417-OD2-419-HZ2
1760,417,OD2,420,H,417-OD2-420-H
1761,417,OD1,419,H,417-OD1-419-H
1762,417,OD2,419,HZ3,417-OD2-419-HZ3
1763,417,OD1,419,HZ2,417-OD1-419-HZ2
1764,417,O,420,H,417-O-420-H
1765,417,OD2,68,HE22,417-OD2-68-HE22
1766,417,O,421,H,417-O-421-H
1767,417,OD2,413,HE22,417-OD2-413-HE22
1768,417,OD1,419,HZ1,417-OD1-419-HZ1
1769,417,OD1,68,HE22,417-OD1-68-HE22
1770,417,OD1,420,H,417-OD1-420-H
1771,417,OD1,413,HE21,417-OD1-413-HE21
1772,417,OD2,413,HE21,417-OD2-413-HE21
1773,418,OE1,68,HE22,418-OE1-68-HE22
1774,418,OE1,418,H,418-OE1-418-H
1775,418,OE1,68,HE21,418-OE1-68-HE21
1776,418,OE1,423,H,418-OE1-423-H
1777,418,NE2,418,H,418-NE2-418-H
1778,418,O,418,HE21,418-O-418-HE21
1779,420,O,446,HZ1,420-O-446-HZ1
1780,420,O,446,HZ2,420-O-446-HZ2
1781,420,O,446,HZ3,420-O-446-HZ3
1782,422,O,431,HH21,422-O-431-HH21
1783,422,O,431,HE,422-O-431-HE
1784,423,OD1,425,HG,423-OD1-425-HG
1785,423,O,426,H,423-O-426-H
1786,423,OD1,425,H,423-OD1-425-H
1787,423,O,431,HH21,423-O-431-HH21
1788,423,O,423,HD22,423-O-423-HD22
1789,423,O,431,HH22,423-O-431-HH22
1790,423,N,423,HD22,423-N-423-HD22
1791,423,OD1,426,H,423-OD1-426-H
1792,424,O,377,HH22,424-O-377-HH22
1793,424,O,377,HH12,424-O-377-HH12
1794,425,O,425,HG,425-O-425-HG
1795,425,O,378,HE2,425-O-378-HE2
1796,426,OE2,423,HD22,426-OE2-423-HD22

1797,426,OE1,423,HD22,426-OE1-423-HD22	1837,438,O,434,HG1,438-O-434-HG1
1798,426,O,431,HH22,426-O-431-HH22	1838,438,O,434,H,438-O-434-H
1799,426,O,431,HH12,426-O-431-HH12	1839,439,O,441,HZ1,439-O-441-HZ1
1800,426,OE1,427,H,426-OE1-427-H	1840,439,O,441,HZ2,439-O-441-HZ2
1801,426,OE1,425,HG,426-OE1-425-HG	1841,439,O,441,H,439-O-441-H
1802,426,OE2,425,HG,426-OE2-425-HG	1842,439,O,441,HZ3,439-O-441-HZ3
1803,426,OE2,427,H,426-OE2-427-H	1843,440,OD2,443,H,440-OD2-443-H
1804,426,O,428,H,426-O-428-H	1844,440,O,444,HG,440-O-444-HG
1805,427,O,338,HH21,427-O-338-HH21	1845,440,OD1,442,H,440-OD1-442-H
1806,428,O,431,H,428-O-431-H	1846,440,OD1,443,H,440-OD1-443-H
1807,429,O,432,H,429-O-432-H	1847,440,O,443,H,440-O-443-H
1808,429,O,433,H,429-O-433-H	1848,440,OD2,441,H,440-OD2-441-H
1809,430,OE1,342,HZ3,430-OE1-342-HZ3	1849,440,O,444,H,440-O-444-H
1810,430,OE1,338,HH22,430-OE1-338-HH22	1850,440,O,442,H,440-O-442-H
1811,430,OE2,342,HZ3,430-OE2-342-HZ3	1851,440,OD2,442,H,440-OD2-442-H
1812,430,OE2,338,HH12,430-OE2-338-HH12	1852,441,O,444,HG,441-O-444-HG
1813,430,OE2,430,H,430-OE2-430-H	1853,441,O,445,H,441-O-445-H
1814,430,OE1,367,HH,430-OE1-367-HH	1854,442,O,446,HZ3,442-O-446-HZ3
1815,430,OE2,342,HZ1,430-OE2-342-HZ1	1855,442,O,446,H,442-O-446-H
1816,430,OE2,342,HZ2,430-OE2-342-HZ2	1856,442,O,445,H,442-O-445-H
1817,430,OE1,342,HZ2,430-OE1-342-HZ2	1857,442,O,446,HZ2,442-O-446-HZ2
1818,430,OE2,367,HH,430-OE2-367-HH	1858,442,O,446,HZ1,442-O-446-HZ1
1819,430,O,433,H,430-O-433-H	1859,443,O,447,H,443-O-447-H
1820,430,OE1,430,H,430-OE1-430-H	1860,443,O,446,H,443-O-446-H
1821,430,OE1,338,HH12,430-OE1-338-HH12	1861,444,OG,464,HH22,444-OG-464-HH22
1822,430,OE2,338,HH22,430-OE2-338-HH22	1862,444,O,464,HH22,444-O-464-HH22
1823,430,OE1,342,HZ1,430-OE1-342-HZ1	1863,444,O,447,H,444-O-447-H
1824,432,O,440,H,432-O-440-H	1864,444,OG,445,H,444-OG-445-H
1825,434,O,437,H,434-O-437-H	1865,445,OE1,464,HH12,445-OE1-464-HH12
1826,434,OG1,437,H,434-OG1-437-H	1866,445,OE2,441,HZ3,445-OE2-441-HZ3
1827,434,OG1,438,H,434-OG1-438-H	1867,445,OE1,446,HZ3,445-OE1-446-HZ3
1828,434,OG1,436,H,434-OG1-436-H	1868,445,OE2,93,HH21,445-OE2-93-HH21
1829,435,O,437,H,435-O-437-H	1869,445,OE1,444,HG,445-OE1-444-HG
1830,436,O,438,H,436-O-438-H	1870,445,OE1,456,HZ3,445-OE1-456-HZ3
1831,436,OD2,434,HG1,436-OD2-434-HG1	1871,445,OE2,93,HH22,445-OE2-93-HH22
1832,436,OD1,436,H,436-OD1-436-H	1872,445,OE1,441,HZ3,445-OE1-441-HZ3
1833,436,OD1,438,H,436-OD1-438-H	1873,445,OE1,93,HH12,445-OE1-93-HH12
1834,436,OD2,438,H,436-OD2-438-H	1874,445,OE1,464,HH22,445-OE1-464-HH22
1835,436,OD2,436,H,436-OD2-436-H	1875,445,OE2,464,HH12,445-OE2-464-HH12
1836,436,OD1,434,HG1,436-OD1-434-HG1	1876,445,OE1,441,HZ2,445-OE1-441-HZ2

1877,445,O,93,HH21,445-O-93-HH21	1917,459,O,463,H,459-O-463-H
1878,445,OE1,93,HH22,445-OE1-93-HH22	1918,459,O,462,H,459-O-462-H
1879,445,OE1,441,HZ1,445-OE1-441-HZ1	1919,459,O,464,H,459-O-464-H
1880,445,OE2,464,HH22,445-OE2-464-HH22	1920,460,OE1,456,HZ3,460-OE1-456-HZ3
1881,445,OE2,441,HZ2,445-OE2-441-HZ2	1921,460,OE2,461,HG1,460-OE2-461-HG1
1882,445,O,447,H,445-O-447-H	1922,460,OE2,456,HZ2,460-OE2-456-HZ2
1883,445,OE1,93,HH21,445-OE1-93-HH21	1923,460,OE2,464,HH22,460-OE2-464-HH22
1884,445,OE2,444,HG,445-OE2-444-HG	1924,460,O,464,HH11,460-O-464-HH11
1885,445,OE2,441,HZ1,445-OE2-441-HZ1	1925,460,O,464,H,460-O-464-H
1886,445,OE2,93,HH12,445-OE2-93-HH12	1926,460,OE1,461,H,460-OE1-461-H
1887,445,O,93,HH22,445-O-93-HH22	1927,460,OE2,464,HH11,460-OE2-464-HH11
1888,446,O,448,H,446-O-448-H	1928,460,OE2,464,HH12,460-OE2-464-HH12
1889,448,O,415,HD21,448-O-415-HD21	1929,460,OE2,461,H,460-OE2-461-H
1890,449,O,411,HE22,449-O-411-HE22	1930,460,OE1,464,HH11,460-OE1-464-HH11
1891,450,O,457,H,450-O-457-H	1931,460,OE2,139,HE22,460-OE2-139-HE22
1892,451,O,456,HZ1,451-O-456-HZ1	1932,460,OE1,456,HZ2,460-OE1-456-HZ2
1893,451,O,456,HZ3,451-O-456-HZ3	1933,460,OE1,456,HZ1,460-OE1-456-HZ1
1894,451,O,456,HZ2,451-O-456-HZ2	1934,460,OE1,461,HG1,460-OE1-461-HG1
1895,452,O,456,H,452-O-456-H	1935,460,OE2,456,HZ3,460-OE2-456-HZ3
1896,452,O,455,H,452-O-455-H	1936,460,OE2,456,HZ1,460-OE2-456-HZ1
1897,453,O,455,H,453-O-455-H	1937,461,O,464,H,461-O-464-H
1898,453,O,456,HZ2,453-O-456-HZ2	1938,461,O,465,H,461-O-465-H
1899,453,O,456,H,453-O-456-H	1939,461,O,461,HG1,461-O-461-HG1
1900,454,O,135,HH12,454-O-135-HH12	1940,461,OG1,139,HE22,461-OG1-139-HE22
1901,454,O,456,H,454-O-456-H	1941,461,OG1,139,HE21,461-OG1-139-HE21
1902,454,O,135,HH22,454-O-135-HH22	1942,462,O,466,H,462-O-466-H
1903,455,NH1,131,HE1,455-NH1-131-HE1	1943,462,O,465,H,462-O-465-H
1904,455,O,135,HH12,455-O-135-HH12	1944,463,O,467,H,463-O-467-H
1905,455,O,452,H,455-O-452-H	1945,464,O,362,HH11,464-O-362-HH11
1906,456,O,135,HH22,456-O-135-HH22	1946,464,O,468,H,464-O-468-H
1907,456,O,135,HH12,456-O-135-HH12	1947,464,O,362,HH21,464-O-362-HH21
1908,457,O,460,H,457-O-460-H	1948,464,O,362,HE,464-O-362-HE
1909,457,O,456,HZ2,457-O-456-HZ2	1949,465,O,468,H,465-O-468-H
1910,457,O,456,HZ1,457-O-456-HZ1	1950,465,O,469,H,465-O-469-H
1911,457,O,135,HH22,457-O-135-HH22	1951,465,NE1,362,HH12,465-NE1-362-HH12
1912,458,O,461,H,458-O-461-H	1952,466,O,469,H,466-O-469-H
1913,458,O,139,HE22,458-O-139-HE22	1953,466,O,470,H,466-O-470-H
1914,458,O,461,HG1,458-O-461-HG1	1954,467,O,471,H,467-O-471-H
1915,458,O,139,HE21,458-O-139-HE21	1955,468,O,472,H,468-O-472-H
1916,458,O,462,H,458-O-462-H	1956,469,O,473,H,469-O-473-H

1957,469,O,472,H,469-O-472-H	1997,481,O,507,H,481-O-507-H
1958,470,O,474,H,470-O-474-H	1998,481,OG,507,HE21,481-OG-507-HE21
1959,471,O,475,H,471-O-475-H	1999,482,O,485,H,482-O-485-H
1960,472,O,476,H,472-O-476-H	2000,483,O,486,H,483-O-486-H
1961,473,O,476,H,473-O-476-H	2001,483,O,485,H,483-O-485-H
1962,473,O,477,HE,473-O-477-HE	2002,484,O,486,H,484-O-486-H
1963,473,O,477,HH11,473-O-477-HH11	2003,485,O,487,HZ2,485-O-487-HZ2
1964,473,O,477,H,473-O-477-H	2004,485,O,487,HZ1,485-O-487-HZ1
1965,473,O,477,HH21,473-O-477-HH21	2005,485,O,487,H,485-O-487-H
1966,474,O,478,H,474-O-478-H	2006,485,O,487,HZ3,485-O-487-HZ3
1967,474,O,477,H,474-O-477-H	2007,486,O,488,H,486-O-488-H
1968,475,O,344,HE21,475-O-344-HE21	2008,486,O,505,HE2,486-O-505-HE2
1969,475,O,511,HH21,475-O-511-HH21	2009,487,O,489,H,487-O-489-H
1970,475,O,511,HE,475-O-511-HE	2010,487,O,505,HE2,487-O-505-HE2
1971,476,O,476,HE21,476-O-476-HE21	2011,488,O,487,HZ1,488-O-487-HZ1
1972,476,O,511,HH21,476-O-511-HH21	2012,488,O,487,HZ3,488-O-487-HZ3
1973,476,O,511,HE,476-O-511-HE	2013,489,OD2,491,HG1,489-OD2-491-HG1
1974,477,O,511,H,477-O-511-H	2014,489,O,491,H,489-O-491-H
1975,478,O,344,HE22,478-O-344-HE22	2015,489,OD2,490,H,489-OD2-490-H
1976,478,O,344,HE21,478-O-344-HE21	2016,489,O,501,H,489-O-501-H
1977,479,OE1,512,H,479-OE1-512-H	2017,489,OD2,487,HZ1,489-OD2-487-HZ1
1978,479,OE1,341,HH21,479-OE1-341-HH21	2018,489,O,500,HD1,489-O-500-HD1
1979,479,OE1,512,HG,479-OE1-512-HG	2019,489,OD1,487,HZ3,489-OD1-487-HZ3
1980,479,OE2,512,H,479-OE2-512-H	2020,489,OD2,487,HZ3,489-OD2-487-HZ3
1981,479,OE1,341,HE,479-OE1-341-HE	2021,489,OD1,491,HG1,489-OD1-491-HG1
1982,479,OE1,341,HH22,479-OE1-341-HH22	2022,489,OD1,487,HZ2,489-OD1-487-HZ2
1983,479,OE2,341,HE,479-OE2-341-HE	2023,489,OD1,491,H,489-OD1-491-H
1984,479,OE2,341,HH12,479-OE2-341-HH12	2024,489,OD2,491,H,489-OD2-491-H
1985,479,OE1,344,HE22,479-OE1-344-HE22	2025,490,O,501,H,490-O-501-H
1986,479,OE1,341,HH12,479-OE1-341-HH12	2026,491,O,501,H,491-O-501-H
1987,479,OE2,509,HE21,479-OE2-509-HE21	2027,492,O,57,HZ1,492-O-57-HZ1
1988,479,OE2,341,HH22,479-OE2-341-HH22	2028,492,O,57,HZ3,492-O-57-HZ3
1989,479,OE2,512,HG,479-OE2-512-HG	2029,492,O,58,HD21,492-O-58-HD21
1990,479,OE2,341,HH21,479-OE2-341-HH21	2030,492,O,60,HE2,492-O-60-HE2
1991,479,O,509,H,479-O-509-H	2031,492,O,57,HZ2,492-O-57-HZ2
1992,479,O,509,HE21,479-O-509-HE21	2032,493,O,499,H,493-O-499-H
1993,479,OE1,509,HE21,479-OE1-509-HE21	2033,494,OH,230,H,494-OH-230-H
1994,480,O,340,HE22,480-O-340-HE22	2034,497,O,499,HZ3,497-O-499-HZ3
1995,481,OG,509,HE22,481-OG-509-HE22	2035,497,OG1,499,HZ3,497-OG1-499-HZ3
1996,481,OG,482,H,481-OG-482-H	2036,497,O,497,HG1,497-O-497-HG1

2037,497,O,499,HZ2,497-O-499-HZ2	2077,508,O,509,HE21,508-O-509-HE21
2038,497,OG1,499,HZ2,497-OG1-499-HZ2	2078,509,OE1,175,HE22,509-OE1-175-HE22
2039,497,O,499,HZ1,497-O-499-HZ1	2079,509,O,511,H,509-O-511-H
2040,497,OG1,499,HZ1,497-OG1-499-HZ1	2080,509,OE1,481,HG,509-OE1-481-HG
2041,497,O,499,H,497-O-499-H	2081,509,O,479,H,509-O-479-H
2042,497,OG1,516,H10,497-OG1-516-H10	2082,509,OE1,510,H,509-OE1-510-H
2043,498,O,328,HE1,498-O-328-HE1	2083,510,O,509,HE21,510-O-509-HE21
2044,499,O,493,H,499-O-493-H	2084,511,NH1,353,HH21,511-NH1-353-HH21
2045,500,O,500,HD1,500-O-500-HD1	2085,511,O,353,HH12,511-O-353-HH12
2046,500,O,502,H,500-O-502-H	2086,511,O,512,HG,511-O-512-HG
2047,500,NE2,327,HG,500-NE2-327-HG	2087,512,O,512,HG,512-O-512-HG
2048,501,O,500,HD1,501-O-500-HD1	2088,512,O,353,HH11,512-O-353-HH11
2049,501,O,503,H,501-O-503-H	2089,512,OXT,511,HH11,512-OXT-511-HH11
2050,502,O,504,H,502-O-504-H	2090,512,OXT,353,HH11,512-OXT-353-HH11
2051,502,O,185,HD21,502-O-185-HD21	2091,512,O,353,HH12,512-O-353-HH12
2052,502,O,487,HZ3,502-O-487-HZ3	2092,512,OXT,512,HG,512-OXT-512-HG
2053,503,O,506,H,503-O-506-H	2093,512,OXT,353,HH22,512-OXT-353-HH22
2054,503,O,185,HD22,503-O-185-HD22	2094,512,OXT,353,HH12,512-OXT-353-HH12
2055,503,O,505,H,503-O-505-H	2095,512,O,353,HH22,512-O-353-HH22
2056,504,OE2,188,HE,504-OE2-188-HE	2096,512,OG,341,HH22,512-OG-341-HH22
2057,504,OE1,504,H,504-OE1-504-H	2097,515,O1D,455,HH11,515-O1D-455-HH11
2058,504,OE1,188,HH12,504-OE1-188-HH12	2098,515,O2A,386,H,515-O2A-386-H
2059,504,OE2,188,HH22,504-OE2-188-HH22	2099,515,O2D,135,HH12,515-O2D-135-HH12
2060,504,OE2,185,HD22,504-OE2-185-HD22	2100,515,O2D,106,HH21,515-O2D-106-HH21
2061,504,OE2,188,HH21,504-OE2-188-HH21	2101,515,O2D,135,HH22,515-O2D-135-HH22
2062,504,OE1,188,HE,504-OE1-188-HE	2102,515,O1D,106,HE,515-O1D-106-HE
2063,504,OE1,183,HE2,504-OE1-183-HE2	2103,515,O2D,456,H,515-O2D-456-H
2064,504,OE2,504,H,504-OE2-504-H	2104,515,O1D,131,HE1,515-O1D-131-HE1
2065,504,OE1,185,HD22,504-OE1-185-HD22	2105,515,O1D,122,HG,515-O1D-122-HG
2066,504,OE2,188,HH12,504-OE2-188-HH12	2106,515,O1A,106,HH12,515-O1A-106-HH12
2067,504,OE1,188,HH22,504-OE1-188-HH22	2107,515,O2D,131,HE1,515-O2D-131-HE1
2068,504,OE1,188,HH21,504-OE1-188-HH21	2108,515,O1D,135,HH11,515-O1D-135-HH11
2069,504,OE1,505,HE2,504-OE1-505-HE2	2109,515,O2A,106,HH12,515-O2A-106-HH12
2070,505,ND1,504,H,505-ND1-504-H	2110,515,O1A,386,H,515-O1A-386-H
2071,505,ND1,505,H,505-ND1-505-H	2111,515,O2A,106,HH22,515-O2A-106-HH22
2072,506,O,184,H,506-O-184-H	2112,515,O2D,455,HH11,515-O2D-455-HH11
2073,507,OE1,481,HG,507-OE1-481-HG	2113,515,O2D,122,HG,515-O2D-122-HG
2074,507,OE1,183,HE2,507-OE1-183-HE2	2114,515,O1A,122,HG,515-O1A-122-HG
2075,507,O,481,H,507-O-481-H	2115,515,O1D,106,HH21,515-O1D-106-HH21
2076,507,OE1,509,HE21,507-OE1-509-HE21	2116,515,O1A,106,HH22,515-O1A-106-HH22

2117,515,O2D,135,HH11,515-O2D-135-HH11
2118,516,O15,116,H,516-O15-116-H
2119,516,O18,122,HG,516-O18-122-HG
2120,516,O15,222,HD22,516-O15-222-HD22
2121,516,O18,120,HG,516-O18-120-HG

Model IV

RES_DONOR,ATOM_DONOR,RES_ACCEPTOR,ATOM_ACCEPTOR,
TAG

1,37,O,39,H,37-O-39-H
2,38,O,39,HD22,38-O-39-HD22
3,38,O,400,H,38-O-400-H
4,39,OD1,75,HE22,39-OD1-75-HE22
5,39,OD1,38,HZ2,39-OD1-38-HZ2
6,39,ND2,39,H,39-ND2-39-H
7,39,ND2,75,HE22,39-ND2-75-HE22
8,39,OD1,405,HH21,39-OD1-405-HH21
9,39,OD1,38,HZ1,39-OD1-38-HZ1
10,39,O,39,HD22,39-O-39-HD22
11,39,OD1,39,H,39-OD1-39-H
12,39,O,38,HZ1,39-O-38-HZ1
13,40,O,39,HD22,40-O-39-HD22
14,40,O,75,HE21,40-O-75-HE21
15,41,O,75,H,41-O-75-H
16,43,O,77,HH22,43-O-77-HH22
17,43,O,51,HE2,43-O-51-HE2
18,44,O,51,HE2,44-O-51-HE2
19,45,O,77,HH12,45-O-77-HH12
20,45,O,77,HE,45-O-77-HE
21,45,O,77,HH22,45-O-77-HH22
22,45,O,77,HH21,45-O-77-HH21
23,45,N,51,HE2,45-N-51-HE2
24,46,O,77,HH21,46-O-77-HH21
25,46,O,77,HH12,46-O-77-HH12
26,46,O,48,H,46-O-48-H
27,46,O,49,H,46-O-49-H
28,46,O,77,HH22,46-O-77-HH22
29,46,O,50,H,46-O-50-H
30,47,O,77,HH11,47-O-77-HH11
31,47,O,80,HG,47-O-80-HG
32,47,O,77,HH12,47-O-77-HH12

33,47,O,77,HE,47-O-77-HE
34,47,O,77,HH21,47-O-77-HH21
35,47,O,77,HH22,47-O-77-HH22
36,48,O,77,HH21,48-O-77-HH21
37,49,O,52,H,49-O-52-H
38,49,O,79,H,49-O-79-H
39,50,O,53,H,50-O-53-H
40,50,O,52,H,50-O-52-H
41,50,O,46,H,50-O-46-H
42,51,ND1,51,H,51-ND1-51-H
43,51,ND1,77,H,51-ND1-77-H
44,51,O,55,H,51-O-55-H
45,51,O,54,HG1,51-O-54-HG1
46,51,O,54,H,51-O-54-H
47,52,O,54,H,52-O-54-H
48,52,O,55,H,52-O-55-H
49,52,O,56,H,52-O-56-H
50,53,O,46,HE1,53-O-46-HE1
51,53,O,56,H,53-O-56-H
52,54,OG1,46,HE1,54-OG1-46-HE1
53,54,O,54,HG1,54-O-54-HG1
54,54,O,65,HH22,54-O-65-HH22
55,54,OG1,65,HH22,54-OG1-65-HH22
56,55,O,58,HD22,55-O-58-HD22
57,55,O,58,H,55-O-58-H
58,57,O,58,HD22,57-O-58-HD22
59,57,O,57,HZ3,57-O-57-HZ3
60,57,O,57,HZ2,57-O-57-HZ2
61,57,O,57,HZ1,57-O-57-HZ1
62,58,O,61,H,58-O-61-H
63,58,O,62,H,58-O-62-H
64,58,OD1,57,HZ1,58-OD1-57-HZ1
65,58,O,58,HD22,58-O-58-HD22
66,59,O,62,H,59-O-62-H
67,59,O,63,H,59-O-63-H
68,60,ND1,494,HH,60-ND1-494-HH
69,60,O,64,HG,60-O-64-HG
70,60,O,410,HD21,60-O-410-HD21
71,60,O,64,H,60-O-64-H
72,60,ND1,60,H,60-ND1-60-H

73,61,O,65,HE,61-O-65-HE	113,69,NE2,70,HH,69-NE2-70-HH
74,61,O,64,H,61-O-64-H	114,69,OE1,65,HH21,69-OE1-65-HH21
75,61,O,65,H,61-O-65-H	115,69,OE1,65,HH12,69-OE1-65-HH12
76,62,O,65,H,62-O-65-H	116,70,OH,69,HE21,70-OH-69-HE21
77,62,O,66,H,62-O-66-H	117,71,O,67,HG,71-O-67-HG
78,63,O,67,HG,63-O-67-HG	118,72,OD2,72,H,72-OD2-72-H
79,63,O,67,H,63-O-67-H	119,72,OD1,397,HZ3,72-OD1-397-HZ3
80,64,O,413,HE22,64-O-413-HE22	120,72,O,88,H,72-O-88-H
81,64,O,68,HE21,64-O-68-HE21	121,72,OD1,72,H,72-OD1-72-H
82,64,O,68,H,64-O-68-H	122,72,OD2,91,HG1,72-OD2-91-HG1
83,64,O,67,HG,64-O-67-HG	123,72,OD1,91,HG1,72-OD1-91-HG1
84,64,O,67,H,64-O-67-H	124,72,OD1,73,H,72-OD1-73-H
85,64,OG,410,HD21,64-OG-410-HD21	125,72,OD1,397,HZ2,72-OD1-397-HZ2
86,65,O,68,HE21,65-O-68-HE21	126,72,O,87,HG,72-O-87-HG
87,65,O,65,HH11,65-O-65-HH11	127,72,OD2,397,HZ2,72-OD2-397-HZ2
88,65,O,69,HE22,65-O-69-HE22	128,72,OD2,397,HZ1,72-OD2-397-HZ1
89,65,O,68,H,65-O-68-H	129,72,OD1,397,HZ1,72-OD1-397-HZ1
90,65,O,69,H,65-O-69-H	130,72,O,87,H,72-O-87-H
91,65,O,69,HE21,65-O-69-HE21	131,72,OD2,397,HZ3,72-OD2-397-HZ3
92,66,O,70,H,66-O-70-H	132,74,O,85,H,74-O-85-H
93,66,O,69,H,66-O-69-H	133,75,OE1,405,HH21,75-OE1-405-HH21
94,67,OG,87,HG,67-OG-87-HG	134,75,OE1,405,HE,75-OE1-405-HE
95,67,O,69,H,67-O-69-H	135,75,OE1,39,HD21,75-OE1-39-HD21
96,67,OG,413,HE21,67-OG-413-HE21	136,75,OE1,39,HD22,75-OE1-39-HD22
97,67,O,71,H,67-O-71-H	137,75,NE2,39,HD21,75-NE2-39-HD21
98,67,OG,68,HE21,67-OG-68-HE21	138,75,NE2,39,HD22,75-NE2-39-HD22
99,67,OG,413,HE22,67-OG-413-HE22	139,76,O,75,HE21,76-O-75-HE21
100,67,O,70,H,67-O-70-H	140,76,O,83,H,76-O-83-H
101,68,OE1,69,HE21,68-OE1-69-HE21	141,77,O,51,H,77-O-51-H
102,68,OE1,65,HH21,68-OE1-65-HH21	142,78,O,81,H,78-O-81-H
103,68,OE1,419,HZ2,68-OE1-419-HZ2	143,78,O,81,HG1,78-O-81-HG1
104,68,OE1,418,HE22,68-OE1-418-HE22	144,79,O,81,H,79-O-81-H
105,68,O,68,HE21,68-O-68-HE21	145,79,O,77,HE,79-O-77-HE
106,68,OE1,419,HZ3,68-OE1-419-HZ3	146,79,O,77,HH21,79-O-77-HH21
107,68,OE1,413,HE22,68-OE1-413-HE22	147,79,O,77,HH11,79-O-77-HH11
108,68,OE1,419,HZ1,68-OE1-419-HZ1	148,80,O,77,HE,80-O-77-HE
109,68,OE1,65,HH11,68-OE1-65-HH11	149,80,O,77,HH21,80-O-77-HH21
110,68,NE2,413,HE22,68-NE2-413-HE22	150,80,OG,77,HH21,80-OG-77-HH21
111,68,OE1,65,HE,68-OE1-65-HE	151,80,O,77,HH11,80-O-77-HH11
112,69,OE1,70,HH,69-OE1-70-HH	152,80,O,77,HH12,80-O-77-HH12

153,80,O,80,HG,80-O-80-HG	193,90,OD2,91,HG1,90-OD2-91-HG1
154,80,OG,241,HH12,80-OG-241-HH12	194,90,OD1,397,HZ2,90-OD1-397-HZ2
155,80,OG,81,HG1,80-OG-81-HG1	195,90,OD2,397,HZ2,90-OD2-397-HZ2
156,81,O,78,H,81-O-78-H	196,90,OD2,93,HH11,90-OD2-93-HH11
157,81,O,81,HG1,81-O-81-HG1	197,90,OD1,91,HG1,90-OD1-91-HG1
158,82,O,405,HH11,82-O-405-HH11	198,90,OD2,93,HH21,90-OD2-93-HH21
159,83,O,76,H,83-O-76-H	199,90,OD1,397,HZ3,90-OD1-397-HZ3
160,84,O,408,H,84-O-408-H	200,90,OD2,98,HH12,90-OD2-98-HH12
161,85,O,74,H,85-O-74-H	201,90,OD1,93,HH22,90-OD1-93-HH22
162,86,O,87,HG,86-O-87-HG	202,90,OD2,93,HH12,90-OD2-93-HH12
163,86,O,410,H,86-O-410-H	203,91,OG1,397,HZ1,91-OG1-397-HZ1
164,87,OG,410,HD22,87-OG-410-HD22	204,91,O,95,H,91-O-95-H
165,87,O,91,HG1,87-O-91-HG1	205,91,OG1,397,HZ2,91-OG1-397-HZ2
166,87,O,87,HG,87-O-87-HG	206,91,OG1,397,HZ3,91-OG1-397-HZ3
167,87,OG,67,HG,87-OG-67-HG	207,92,O,95,H,92-O-95-H
168,87,O,413,HE22,87-O-413-HE22	208,92,O,96,H,92-O-96-H
169,87,O,413,HE21,87-O-413-HE21	209,93,O,98,H,93-O-98-H
170,88,O,91,H,88-O-91-H	210,93,O,97,H,93-O-97-H
171,88,O,91,HG1,88-O-91-HG1	211,94,O,98,H,94-O-98-H
172,88,O,92,H,88-O-92-H	212,94,OE1,397,HZ2,94-OE1-397-HZ2
173,89,O,93,HE,89-O-93-HE	213,94,O,94,HE21,94-O-94-HE21
174,89,O,92,H,89-O-92-H	214,94,O,99,H,94-O-99-H
175,89,O,93,H,89-O-93-H	215,94,OE1,397,HZ3,94-OE1-397-HZ3
176,90,OD2,93,HE,90-OD2-93-HE	216,94,OE1,98,HH21,94-OE1-98-HH21
177,90,OD1,98,HH22,90-OD1-98-HH22	217,94,OE1,98,HH11,94-OE1-98-HH11
178,90,OD1,93,HH11,90-OD1-93-HH11	218,94,OE1,98,HE,94-OE1-98-HE
179,90,OD1,93,HE,90-OD1-93-HE	219,94,OE1,397,HZ1,94-OE1-397-HZ1
180,90,O,98,HH12,90-O-98-HH12	220,94,NE2,397,H,94-NE2-397-H
181,90,OD2,98,HH22,90-OD2-98-HH22	221,94,OE1,397,H,94-OE1-397-H
182,90,O,94,H,90-O-94-H	222,94,O,99,HE21,94-O-99-HE21
183,90,OD1,93,HH21,90-OD1-93-HH21	223,95,O,99,H,95-O-99-H
184,90,OD2,397,HZ1,90-OD2-397-HZ1	224,95,O,100,H,95-O-100-H
185,90,OD2,397,HZ3,90-OD2-397-HZ3	225,96,O,454,H,96-O-454-H
186,90,OD1,98,HH12,90-OD1-98-HH12	226,96,O,100,H,96-O-100-H
187,90,OD2,93,HH22,90-OD2-93-HH22	227,97,O,454,HZ2,97-O-454-HZ2
188,90,OD1,93,HH12,90-OD1-93-HH12	228,97,O,100,H,97-O-100-H
189,90,OD1,90,H,90-OD1-90-H	229,97,O,454,HZ1,97-O-454-HZ1
190,90,OD1,397,HZ1,90-OD1-397-HZ1	230,97,O,454,HZ3,97-O-454-HZ3
191,90,OD2,94,HE21,90-OD2-94-HE21	231,98,O,98,HH11,98-O-98-HH11
192,90,O,98,HH22,90-O-98-HH22	232,98,O,99,HE21,98-O-99-HE21

233,99,O,102,H,99-O-102-H	273,102,OD2,394,HG1,102-OD2-394-HG1
234,99,OE1,394,HG1,99-OE1-394-HG1	274,102,O,391,H,102-O-391-H
235,99,O,101,H,99-O-101-H	275,102,OD1,392,HH11,102-OD1-392-HH11
236,99,O,103,H,99-O-103-H	276,102,OD2,99,HE21,102-OD2-99-HE21
237,99,OE1,94,HE21,99-OE1-94-HE21	277,102,OD2,392,HH11,102-OD2-392-HH11
238,100,O,454,HZ1,100-O-454-HZ1	278,103,O,105,H,103-O-105-H
239,100,O,454,HZ3,100-O-454-HZ3	279,103,O,389,H,103-O-389-H
240,100,O,103,H,100-O-103-H	280,103,O,388,HD1,103-O-388-HD1
241,100,O,104,H,100-O-104-H	281,104,O,455,HH21,104-O-455-HH21
242,100,O,454,HZ2,100-O-454-HZ2	282,104,O,455,HE,104-O-455-HE
243,101,O,104,HZ2,101-O-104-HZ2	283,104,O,127,HG,104-O-127-HG
244,101,OD1,104,HZ3,101-OD1-104-HZ3	284,104,O,127,H,104-O-127-H
245,101,OD1,104,HZ2,101-OD1-104-HZ2	285,105,O,389,H,105-O-389-H
246,101,O,391,HG1,101-O-391-HG1	286,105,O,388,HD1,105-O-388-HD1
247,101,OD1,392,HH22,101-OD1-392-HH22	287,107,O,109,H,107-O-109-H
248,101,OD1,392,HH12,101-OD1-392-HH12	288,108,OD1,108,H,108-OD1-108-H
249,101,O,104,H,101-O-104-H	289,108,OD2,108,H,108-OD2-108-H
250,101,OD2,104,HZ3,101-OD2-104-HZ3	290,109,O,113,HG1,109-O-113-HG1
251,101,OD2,454,HZ2,101-OD2-454-HZ2	291,109,O,112,H,109-O-112-H
252,101,OD2,454,HZ1,101-OD2-454-HZ1	292,109,O,113,H,109-O-113-H
253,101,OD1,454,HZ1,101-OD1-454-HZ1	293,110,O,114,H,110-O-114-H
254,101,O,104,HZ1,101-O-104-HZ1	294,110,OH,252,HZ2,110-OH-252-HZ2
255,101,OD2,392,HH12,101-OD2-392-HH12	295,110,OH,252,HZ1,110-OH-252-HZ1
256,101,OD2,104,HZ2,101-OD2-104-HZ2	296,110,O,113,HG1,110-O-113-HG1
257,101,OD1,104,HZ1,101-OD1-104-HZ1	297,110,O,113,H,110-O-113-H
258,101,OD1,454,HZ2,101-OD1-454-HZ2	298,111,OG1,112,H,111-OG1-112-H
259,101,OD1,454,HZ3,101-OD1-454-HZ3	299,111,O,114,H,111-O-114-H
260,101,OD2,454,HZ3,101-OD2-454-HZ3	300,111,OG1,232,HD22,111-OG1-232-HD22
261,101,O,392,HH22,101-O-392-HH22	301,111,O,115,H,111-O-115-H
262,101,OD2,104,HZ1,101-OD2-104-HZ1	302,112,O,115,H,112-O-115-H
263,101,O,104,HZ3,101-O-104-HZ3	303,113,O,118,H,113-O-118-H
264,101,OD2,392,HH22,101-OD2-392-HH22	304,114,O,117,H,114-O-117-H
265,102,O,391,HG1,102-O-391-HG1	305,114,O,118,H,114-O-118-H
266,102,OD1,394,HG1,102-OD1-394-HG1	306,114,O,255,HD21,114-O-255-HD21
267,102,OD1,392,HH21,102-OD1-392-HH21	307,115,O,120,H,115-O-120-H
268,102,OD1,99,HE21,102-OD1-99-HE21	308,115,O,118,H,115-O-118-H
269,102,O,104,H,102-O-104-H	309,115,O,119,H,115-O-119-H
270,102,OD1,392,HE,102-OD1-392-HE	310,116,O,119,HE21,116-O-119-HE21
271,102,OD2,392,HE,102-OD2-392-HE	311,116,OG,309,HD22,116-OG-309-HD22
272,102,OD2,392,HH21,102-OD2-392-HH21	312,116,O,309,HD22,116-O-309-HD22

313,116,O,259,HH,116-O-259-HH
314,116,O,119,H,116-O-119-H
315,116,OG,259,HH,116-OG-259-HH
316,116,OG,255,HD21,116-OG-255-HD21
317,117,OD1,306,HZ2,117-OD1-306-HZ2
318,117,O,119,H,117-O-119-H
319,117,O,306,HZ3,117-O-306-HZ3
320,117,OD1,263,HE22,117-OD1-263-HE22
321,117,O,306,HZ1,117-O-306-HZ1
322,117,OD1,259,HH,117-OD1-259-HH
323,117,O,119,HE22,117-O-119-HE22
324,117,O,306,HZ2,117-O-306-HZ2
325,117,ND2,306,HZ2,117-ND2-306-HZ2
326,117,O,117,HD22,117-O-117-HD22
327,117,OD1,306,HZ1,117-OD1-306-HZ1
328,117,OD1,306,HZ3,117-OD1-306-HZ3
329,117,O,119,HE21,117-O-119-HE21
330,117,OD1,119,HE21,117-OD1-119-HE21
331,117,OD1,255,HD21,117-OD1-255-HD21
332,117,OD1,309,HD22,117-OD1-309-HD22
333,118,O,119,HE21,118-O-119-HE21
334,118,O,120,H,118-O-120-H
335,118,O,124,HG,118-O-124-HG
336,119,NE2,309,HD21,119-NE2-309-HD21
337,119,OE1,306,HZ1,119-OE1-306-HZ1
338,119,OE1,309,HD21,119-OE1-309-HD21
339,119,OE1,117,HD22,119-OE1-117-HD22
340,119,OE1,259,HH,119-OE1-259-HH
341,119,O,134,HH22,119-O-134-HH22
342,119,OE1,309,HD22,119-OE1-309-HD22
343,119,OE1,117,HD21,119-OE1-117-HD21
344,119,O,309,HD21,119-O-309-HD21
345,119,OE1,306,HZ3,119-OE1-306-HZ3
346,119,OE1,134,HH12,119-OE1-134-HH12
347,119,OE1,306,HZ2,119-OE1-306-HZ2
348,119,O,119,HE21,119-O-119-HE21
349,119,O,134,HH12,119-O-134-HH12
350,119,OE1,134,HH22,119-OE1-134-HH22
351,120,O,134,HH12,120-O-134-HH12
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353,120,OG,123,H,120-OG-123-H
354,120,O,124,HG,120-O-124-HG
355,120,O,124,H,120-O-124-H
356,120,O,123,H,120-O-123-H
357,120,OG,122,HG,120-OG-122-HG
358,121,O,131,HE1,121-O-131-HE1
359,121,O,455,HH12,121-O-455-HH12
360,121,O,124,H,121-O-124-H
361,121,O,124,HG,121-O-124-HG
362,121,O,455,HH22,121-O-455-HH22
363,122,OG,516,H13,122-OG-516-H13
364,122,O,455,HH12,122-O-455-HH12
365,122,OG,123,H,122-OG-123-H
366,122,O,106,HE,122-O-106-HE
367,122,O,124,H,122-O-124-H
368,124,OG,455,HH22,124-OG-455-HH22
369,124,OG,126,H,124-OG-126-H
370,124,O,455,HH22,124-O-455-HH22
371,124,O,126,H,124-O-126-H
372,124,OG,455,HH12,124-OG-455-HH12
373,125,O,127,H,125-O-127-H
374,125,O,106,H,125-O-106-H
375,125,O,127,HG,125-O-127-HG
376,126,O,127,HG,126-O-127-HG
377,126,OD1,104,HZ3,126-OD1-104-HZ3
378,126,OD1,134,HH12,126-OD1-134-HH12
379,126,OD2,104,HZ1,126-OD2-104-HZ1
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381,126,OD2,134,HH11,126-OD2-134-HH11
382,126,OD2,128,H,126-OD2-128-H
383,126,OD1,306,HZ3,126-OD1-306-HZ3
384,126,OD1,306,HZ1,126-OD1-306-HZ1
385,126,OD1,131,H,126-OD1-131-H
386,126,OD1,128,H,126-OD1-128-H
387,126,O,124,HG,126-O-124-HG
388,126,O,455,HH22,126-O-455-HH22
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390,126,OD2,104,HZ3,126-OD2-104-HZ3
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392,126,OD1,104,HZ2,126-OD1-104-HZ2

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394,126,OD1,127,H,126-OD1-127-H
395,126,OD2,126,H,126-OD2-126-H
396,126,OD1,119,HE22,126-OD1-119-HE22
397,126,OD2,119,HE22,126-OD2-119-HE22
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402,126,OD2,134,HH12,126-OD2-134-HH12
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406,126,O,131,H,126-O-131-H
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412,127,O,454,HZ3,127-O-454-HZ3
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415,128,O,132,H,128-O-132-H
416,129,O,133,H,129-O-133-H
417,129,O,297,HD22,129-O-297-HD22
418,130,O,134,H,130-O-134-H
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422,133,O,137,H,133-O-137-H
423,133,O,136,H,133-O-136-H
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427,135,O,139,HE21,135-O-139-HE21
428,136,O,140,H,136-O-140-H
429,136,O,140,HD22,136-O-140-HD22
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431,137,O,140,H,137-O-140-H
432,138,O,141,H,138-O-141-H

433,138,O,142,H,138-O-142-H
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437,139,OE1,143,HZ2,139-OE1-143-HZ2
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444,139,OE1,143,HZ3,139-OE1-143-HZ3
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446,140,OD1,136,HH11,140-OD1-136-HH11
447,140,O,144,H,140-O-144-H
448,140,OD1,136,HH22,140-OD1-136-HH22
449,140,O,144,HG,140-O-144-HG
450,140,OD1,136,HE,140-OD1-136-HE
451,140,OD1,143,HZ2,140-OD1-143-HZ2
452,140,O,143,H,140-O-143-H
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457,141,O,144,H,141-O-144-H
458,142,O,145,H,142-O-145-H
459,142,O,146,HG,142-O-146-HG
460,142,O,147,H,142-O-147-H
461,142,O,146,H,142-O-146-H
462,143,O,148,H,143-O-148-H
463,143,O,147,H,143-O-147-H
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465,144,O,148,H,144-O-148-H
466,144,OG,143,HZ2,144-OG-143-HZ2
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468,145,O,162,HE2,145-O-162-HE2
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479,150,OD1,155,HG1,150-OD1-155-HG1
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481,150,O,152,H,150-O-152-H
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538,156,OG,356,HH21,156-OG-356-HH21
539,156,OG,153,HG,156-OG-153-HG
540,156,O,150,H,156-O-150-H
541,156,O,153,HG,156-O-153-HG
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551,158,O,162,H,158-O-162-H
552,159,O,163,H,159-O-163-H

553,159,O,162,H,159-O-162-H	593,162,O,165,H,162-O-165-H
554,160,OE1,157,H,160-OE1-157-H	594,162,ND1,165,HZ1,162-ND1-165-HZ1
555,160,OE2,358,HH21,160-OE2-358-HH21	595,163,O,167,H,163-O-167-H
556,160,O,164,HG,160-O-164-HG	596,163,O,166,H,163-O-166-H
557,160,O,164,H,160-O-164-H	597,164,OG,356,HE,164-OG-356-HE
558,160,OE2,156,HG,160-OE2-156-HG	598,164,OG,356,HH11,164-OG-356-HH11
559,160,OE2,356,HE,160-OE2-356-HE	599,164,O,168,H,164-O-168-H
560,160,OE2,358,HE,160-OE2-358-HE	600,164,OG,356,HH21,164-OG-356-HH21
561,160,OE1,156,HG,160-OE1-156-HG	601,165,O,168,H,165-O-168-H
562,160,OE2,358,HH11,160-OE2-358-HH11	602,165,O,169,H,165-O-169-H
563,160,OE2,359,H,160-OE2-359-H	603,166,OE1,206,HE,166-OE1-206-HE
564,160,O,356,HH21,160-O-356-HH21	604,166,OE2,196,HD22,166-OE2-196-HD22
565,160,OE2,356,HH21,160-OE2-356-HH21	605,166,OE1,209,HE2,166-OE1-209-HE2
566,160,OE1,356,HH21,160-OE1-356-HH21	606,166,O,170,H,166-O-170-H
567,160,OE2,157,H,160-OE2-157-H	607,166,OE1,206,HH21,166-OE1-206-HH21
568,160,OE1,356,HE,160-OE1-356-HE	608,166,OE1,196,HD22,166-OE1-196-HD22
569,160,OE1,358,HH11,160-OE1-358-HH11	609,166,O,193,HG,166-O-193-HG
570,160,OE1,359,H,160-OE1-359-H	610,166,OE2,206,HH21,166-OE2-206-HH21
571,160,OE1,358,HH21,160-OE1-358-HH21	611,166,O,169,H,166-O-169-H
572,160,OE1,358,HE,160-OE1-358-HE	612,166,OE2,206,HE,166-OE2-206-HE
573,161,OE1,356,HH12,161-OE1-356-HH12	613,166,OE1,193,HG,166-OE1-193-HG
574,161,OE2,356,HH12,161-OE2-356-HH12	614,167,O,171,H,167-O-171-H
575,161,OE1,165,HZ1,161-OE1-165-HZ1	615,167,O,170,H,167-O-170-H
576,161,OE2,356,HH22,161-OE2-356-HH22	616,168,OE2,356,HH21,168-OE2-356-HH21
577,161,OE1,153,HG,161-OE1-153-HG	617,168,OE2,477,HH22,168-OE2-477-HH22
578,161,OE1,156,HG,161-OE1-156-HG	618,168,OE1,356,HH21,168-OE1-356-HH21
579,161,OE1,356,HH22,161-OE1-356-HH22	619,168,OE2,356,HH11,168-OE2-356-HH11
580,161,O,165,HZ3,161-O-165-HZ3	620,168,OE1,477,HH12,168-OE1-477-HH12
581,161,OE2,153,HG,161-OE2-153-HG	621,168,OE2,356,HH12,168-OE2-356-HH12
582,161,O,165,H,161-O-165-H	622,168,O,172,HG,168-O-172-HG
583,161,OE2,156,HG,161-OE2-156-HG	623,168,OE2,356,HE,168-OE2-356-HE
584,161,O,165,HZ1,161-O-165-HZ1	624,168,OE2,477,HH12,168-OE2-477-HH12
585,161,OE1,165,HZ2,161-OE1-165-HZ2	625,168,OE1,477,HH22,168-OE1-477-HH22
586,161,OE2,165,HZ3,161-OE2-165-HZ3	626,168,O,172,H,168-O-172-H
587,161,OE1,165,HZ3,161-OE1-165-HZ3	627,169,O,172,HG,169-O-172-HG
588,161,OE2,165,HZ1,161-OE2-165-HZ1	628,169,O,173,HG1,169-O-173-HG1
589,161,O,165,HZ2,161-O-165-HZ2	629,169,O,173,H,169-O-173-H
590,162,ND1,165,HZ3,162-ND1-165-HZ3	630,170,O,174,H,170-O-174-H
591,162,O,166,H,162-O-166-H	631,170,O,173,H,170-O-173-H
592,162,ND1,165,HZ2,162-ND1-165-HZ2	632,171,O,175,H,171-O-175-H

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668,187,O,191,H,187-O-191-H
669,187,OH,499,HZ2,187-OH-499-HZ2
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714,204,O,279,HH21,204-O-279-HH21	754,211,ND1,207,HH,211-ND1-207-HH
715,204,O,279,HH22,204-O-279-HH22	755,212,O,216,H,212-O-216-H
716,204,O,205,HE,204-O-205-HE	756,212,OE1,216,HG,212-OE1-216-HG
717,204,O,279,HH12,204-O-279-HH12	757,212,OE1,212,H,212-OE1-212-H
718,204,O,205,HH21,204-O-205-HH21	758,212,NE2,212,H,212-NE2-212-H
719,206,O,205,HH21,206-O-205-HH21	759,212,O,216,HG,212-O-216-HG
720,206,O,205,HE,206-O-205-HE	760,212,O,212,HE21,212-O-212-HE21
721,206,O,205,HH11,206-O-205-HH11	761,213,OE1,264,HZ3,213-OE1-264-HZ3
722,207,OH,264,HZ2,207-OH-264-HZ2	762,213,O,216,HG,213-O-216-HG
723,207,OH,205,HH11,207-OH-205-HH11	763,213,OE2,211,HE2,213-OE2-211-HE2
724,207,O,206,HH22,207-O-206-HH22	764,213,OE1,212,HE22,213-OE1-212-HE22
725,207,OH,205,HH12,207-OH-205-HH12	765,213,OE1,257,HZ3,213-OE1-257-HZ3
726,207,O,196,HD21,207-O-196-HD21	766,213,OE2,216,HG,213-OE2-216-HG
727,207,OH,205,HE,207-OH-205-HE	767,213,OE2,207,HH,213-OE2-207-HH
728,207,OH,205,HH21,207-OH-205-HH21	768,213,OE2,264,HZ2,213-OE2-264-HZ2
729,208,OD2,206,HH22,208-OD2-206-HH22	769,213,OE1,260,HG,213-OE1-260-HG
730,208,OD2,206,HH12,208-OD2-206-HH12	770,213,O,217,H,213-O-217-H
731,208,OD1,209,H,208-OD1-209-H	771,213,OE1,212,HE21,213-OE1-212-HE21
732,208,OD1,210,HD21,208-OD1-210-HD21	772,213,O,216,H,213-O-216-H
733,208,OD1,210,H,208-OD1-210-H	773,213,OE2,257,HZ2,213-OE2-257-HZ2
734,208,OD1,206,HH12,208-OD1-206-HH12	774,213,OE1,257,HZ1,213-OE1-257-HZ1
735,208,OD2,210,HD21,208-OD2-210-HD21	775,213,OE2,264,HZ1,213-OE2-264-HZ1
736,208,OD1,210,HD22,208-OD1-210-HD22	776,213,OE1,264,HZ1,213-OE1-264-HZ1
737,208,OD2,209,H,208-OD2-209-H	777,213,O,257,HZ2,213-O-257-HZ2
738,208,O,210,H,208-O-210-H	778,213,OE1,264,HZ2,213-OE1-264-HZ2
739,208,OD2,210,HD22,208-OD2-210-HD22	779,213,OE2,257,HZ1,213-OE2-257-HZ1
740,208,OD2,208,H,208-OD2-208-H	780,213,OE2,257,HZ3,213-OE2-257-HZ3
741,208,O,211,H,208-O-211-H	781,213,OE2,212,HE22,213-OE2-212-HE22
742,208,OD2,210,H,208-OD2-210-H	782,213,OE1,207,HH,213-OE1-207-HH
743,209,ND1,206,HH22,209-ND1-206-HH22	783,213,O,257,HZ3,213-O-257-HZ3
744,209,O,210,HD22,209-O-210-HD22	784,213,O,257,HZ1,213-O-257-HZ1
745,209,ND1,209,H,209-ND1-209-H	785,213,OE1,257,HZ2,213-OE1-257-HZ2
746,209,ND1,196,HD22,209-ND1-196-HD22	786,213,OE2,212,HE21,213-OE2-212-HE21
747,209,ND1,173,HG1,209-ND1-173-HG1	787,213,OE1,211,HE2,213-OE1-211-HE2
748,210,O,212,HE21,210-O-212-HE21	788,213,OE2,264,HZ3,213-OE2-264-HZ3
749,210,OD1,210,H,210-OD1-210-H	789,214,O,218,H,214-O-218-H
750,210,O,210,HD22,210-O-210-HD22	790,214,O,217,H,214-O-217-H
751,211,O,215,H,211-O-215-H	791,215,O,219,H,215-O-219-H
752,211,ND1,213,H,211-ND1-213-H	792,215,O,218,H,215-O-218-H

793,215,O,220,H,215-O-220-H	833,221,O,223,H,221-O-223-H
794,215,O,219,HD22,215-O-219-HD22	834,221,O,221,HD22,221-O-221-HD22
795,216,OG,257,HZ3,216-OG-257-HZ3	835,221,OD1,223,HD21,221-OD1-223-HD21
796,216,O,257,HZ2,216-O-257-HZ2	836,221,OD1,187,HH,221-OD1-187-HH
797,216,OG,257,HZ1,216-OG-257-HZ1	837,221,OD1,221,H,221-OD1-221-H
798,216,O,257,HZ1,216-O-257-HZ1	838,221,OD1,188,HE,221-OD1-188-HE
799,216,OG,212,HE21,216-OG-212-HE21	839,221,OD1,188,HH21,221-OD1-188-HH21
800,216,O,220,H,216-O-220-H	840,222,OD1,499,HZ1,222-OD1-499-HZ1
801,216,O,219,H,216-O-219-H	841,222,OD1,224,H,222-OD1-224-H
802,216,OG,257,HZ2,216-OG-257-HZ2	842,222,OD1,187,HH,222-OD1-187-HH
803,216,O,257,HZ3,216-O-257-HZ3	843,222,OD1,499,HZ2,222-OD1-499-HZ2
804,216,O,219,HD22,216-O-219-HD22	844,222,OD1,499,HZ3,222-OD1-499-HZ3
805,217,O,221,H,217-O-221-H	845,222,ND2,499,HZ2,222-ND2-499-HZ2
806,217,O,220,H,217-O-220-H	846,222,O,226,H,222-O-226-H
807,217,O,222,HD21,217-O-222-HD21	847,222,O,499,HZ1,222-O-499-HZ1
808,217,O,219,H,217-O-219-H	848,222,ND2,499,HZ3,222-ND2-499-HZ3
809,218,O,220,H,218-O-220-H	849,222,O,499,HZ3,222-O-499-HZ3
810,218,O,187,HH,218-O-187-HH	850,222,O,499,HZ2,222-O-499-HZ2
811,218,O,221,H,218-O-221-H	851,222,OD1,223,H,222-OD1-223-H
812,218,O,188,HH12,218-O-188-HH12	852,222,ND2,499,HZ1,222-ND2-499-HZ1
813,218,O,222,HD21,218-O-222-HD21	853,222,O,225,H,222-O-225-H
814,218,O,221,HD22,218-O-221-HD22	854,223,O,226,H,223-O-226-H
815,219,OD1,221,HD21,219-OD1-221-HD21	855,223,O,227,H,223-O-227-H
816,219,O,257,HZ2,219-O-257-HZ2	856,223,O,247,HG,223-O-247-HG
817,219,OD1,257,HZ3,219-OD1-257-HZ3	857,223,OD1,257,HZ2,223-OD1-257-HZ2
818,219,O,223,HD22,219-O-223-HD22	858,223,OD1,221,HD22,223-OD1-221-HD22
819,219,OD1,188,HH12,219-OD1-188-HH12	859,223,O,223,HD22,223-O-223-HD22
820,219,OD1,188,HH22,219-OD1-188-HH22	860,223,OD1,223,H,223-OD1-223-H
821,219,O,223,HD21,219-O-223-HD21	861,224,O,228,H,224-O-228-H
822,219,O,221,H,219-O-221-H	862,224,O,227,H,224-O-227-H
823,219,OD1,257,HZ2,219-OD1-257-HZ2	863,225,O,496,H,225-O-496-H
824,219,OD1,188,HH21,219-OD1-188-HH21	864,225,O,229,H,225-O-229-H
825,219,O,221,HD22,219-O-221-HD22	865,226,OE1,223,HD22,226-OE1-223-HD22
826,219,O,219,HD22,219-O-219-HD22	866,226,OE2,226,H,226-OE2-226-H
827,219,OD1,257,HZ1,219-OD1-257-HZ1	867,226,OE2,223,HD21,226-OE2-223-HD21
828,220,O,223,H,220-O-223-H	868,226,OE1,57,HZ1,226-OE1-57-HZ1
829,220,O,257,HZ1,220-O-257-HZ1	869,226,O,229,H,226-O-229-H
830,220,O,223,HD22,220-O-223-HD22	870,226,O,57,HZ2,226-O-57-HZ2
831,220,O,222,H,220-O-222-H	871,226,OE1,223,HD21,226-OE1-223-HD21
832,221,O,223,HD22,221-O-223-HD22	872,226,OE2,223,HD22,226-OE2-223-HD22

873,226,O,232,HD22,226-O-232-HD22	913,235,O,241,HH11,235-O-241-HH11
874,226,OE2,57,HZ2,226-OE2-57-HZ2	914,235,OD1,232,HD22,235-OD1-232-HD22
875,226,OE1,57,HZ3,226-OE1-57-HZ3	915,235,OD1,110,H,235-OD1-110-H
876,226,OE2,57,HZ3,226-OE2-57-HZ3	916,235,OD1,241,HH11,235-OD1-241-HH11
877,226,OE1,226,H,226-OE1-226-H	917,235,OD2,232,HD22,235-OD2-232-HD22
878,226,OE2,247,HG,226-OE2-247-HG	918,236,O,81,HG1,236-O-81-HG1
879,226,OE1,57,HZ2,226-OE1-57-HZ2	919,236,O,80,H,236-O-80-H
880,226,OE1,247,HG,226-OE1-247-HG	920,236,O,80,HG,236-O-80-HG
881,227,O,229,H,227-O-229-H	921,236,O,241,HH12,236-O-241-HH12
882,227,O,232,HD22,227-O-232-HD22	922,236,O,241,HH11,236-O-241-HH11
883,228,O,230,H,228-O-230-H	923,237,O,240,H,237-O-240-H
884,228,O,231,H,228-O-231-H	924,237,O,241,H,237-O-241-H
885,229,O,494,HH,229-O-494-HH	925,238,O,241,H,238-O-241-H
886,229,O,231,H,229-O-231-H	926,238,O,242,H,238-O-242-H
887,229,O,232,H,229-O-232-H	927,239,O,243,H,239-O-243-H
888,229,O,230,HG,229-O-230-HG	928,239,O,242,H,239-O-242-H
889,230,O,494,HH,230-O-494-HH	929,240,O,245,HD22,240-O-245-HD22
890,230,O,230,HG,230-O-230-HG	930,240,O,245,HD21,240-O-245-HD21
891,230,OG,494,HH,230-OG-494-HH	931,240,O,243,H,240-O-243-H
892,230,O,232,H,230-O-232-H	932,242,OH,241,HH21,242-OH-241-HH21
893,232,OD1,235,H,232-OD1-235-H	933,243,O,245,HD22,243-O-245-HD22
894,232,O,236,H,232-O-236-H	934,243,O,245,H,243-O-245-H
895,232,OD1,234,H,232-OD1-234-H	935,244,O,245,HD22,244-O-245-HD22
896,232,OD1,245,HD21,232-OD1-245-HD21	936,244,O,249,HD21,244-O-249-HD21
897,232,O,235,H,232-O-235-H	937,245,O,248,H,245-O-248-H
898,232,OD1,247,HG,232-OD1-247-HG	938,245,OD1,247,HG,245-OD1-247-HG
899,233,O,237,H,233-O-237-H	939,245,O,249,H,245-O-249-H
900,233,O,236,H,233-O-236-H	940,245,O,249,HD22,245-O-249-HD22
901,234,O,237,H,234-O-237-H	941,245,OD1,247,H,245-OD1-247-H
902,234,O,241,HH11,234-O-241-HH11	942,245,OD1,248,H,245-OD1-248-H
903,234,O,241,HH12,234-O-241-HH12	943,246,O,250,H,246-O-250-H
904,235,OD2,232,H,235-OD2-232-H	944,246,O,249,H,246-O-249-H
905,235,OD1,111,H,235-OD1-111-H	945,246,O,249,HD22,246-O-249-HD22
906,235,OD2,111,HG1,235-OD2-111-HG1	946,247,O,250,H,247-O-250-H
907,235,O,241,HH12,235-O-241-HH12	947,247,O,251,H,247-O-251-H
908,235,OD2,241,HH11,235-OD2-241-HH11	948,247,OG,245,HD21,247-OG-245-HD21
909,235,OD2,111,H,235-OD2-111-H	949,247,O,223,HD21,247-O-223-HD21
910,235,OD1,241,HH22,235-OD1-241-HH22	950,247,OG,223,HD21,247-OG-223-HD21
911,235,OD1,241,HH12,235-OD1-241-HH12	951,247,OG,245,HD22,247-OG-245-HD22
912,235,OD1,111,HG1,235-OD1-111-HG1	952,247,OG,223,HD22,247-OG-223-HD22

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1037,260,OG,257,HZ1,260-OG-257-HZ1	1077,268,OE2,271,HZ3,268-OE2-271-HZ3
1038,260,O,264,H,260-O-264-H	1078,268,OE2,264,HZ1,268-OE2-264-HZ1
1039,260,O,264,HZ3,260-O-264-HZ3	1079,268,O,271,H,268-O-271-H
1040,260,OG,264,HZ2,260-OG-264-HZ2	1080,268,OE2,267,HZ3,268-OE2-267-HZ3
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1044,262,O,265,H,262-O-265-H	1084,268,OE1,205,HH22,268-OE1-205-HH22
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1049,263,OE1,267,HZ1,263-OE1-267-HZ1	1089,268,OE1,271,HZ1,268-OE1-271-HZ1
1050,263,O,267,HZ1,263-O-267-HZ1	1090,268,OE1,264,HZ1,268-OE1-264-HZ1
1051,263,O,263,HE21,263-O-263-HE21	1091,268,OE2,205,HE,268-OE2-205-HE
1052,263,OE1,259,HH,263-OE1-259-HH	1092,268,OE1,271,HZ2,268-OE1-271-HZ2
1053,263,O,267,HZ3,263-O-267-HZ3	1093,268,OE2,267,HZ1,268-OE2-267-HZ1
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1055,264,O,267,H,264-O-267-H	1095,268,OE2,205,HH12,268-OE2-205-HH12
1056,264,O,267,HZ2,264-O-267-HZ2	1096,268,OE1,205,HH12,268-OE1-205-HH12
1057,264,O,268,H,264-O-268-H	1097,268,OE2,271,HZ1,268-OE2-271-HZ1
1058,264,O,267,HZ1,264-O-267-HZ1	1098,268,OE1,267,HZ3,268-OE1-267-HZ3
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1060,265,O,205,HH12,265-O-205-HH12	1100,269,O,279,HH22,269-O-279-HH22
1061,265,O,268,H,265-O-268-H	1101,269,ND1,272,HG1,269-ND1-272-HG1
1062,265,O,205,HH22,265-O-205-HH22	1102,269,ND1,205,HH22,269-ND1-205-HH22
1063,266,O,269,H,266-O-269-H	1103,269,ND1,205,HH12,269-ND1-205-HH12
1064,266,O,270,H,266-O-270-H	1104,269,NE2,275,HZ3,269-NE2-275-HZ3
1065,267,O,270,H,267-O-270-H	1105,269,O,271,H,269-O-271-H
1066,267,O,271,HZ3,267-O-271-HZ3	1106,269,O,272,HG1,269-O-272-HG1
1067,267,O,271,H,267-O-271-H	1107,269,O,275,HZ2,269-O-275-HZ2
1068,267,O,271,HZ2,267-O-271-HZ2	1108,269,O,279,HH12,269-O-279-HH12
1069,267,O,271,HZ1,267-O-271-HZ1	1109,269,ND1,205,HH21,269-ND1-205-HH21
1070,268,OE1,264,HZ3,268-OE1-264-HZ3	1110,269,O,273,H,269-O-273-H
1071,268,OE1,264,HZ2,268-OE1-264-HZ2	1111,269,O,275,HZ3,269-O-275-HZ3
1072,268,OE1,205,HE,268-OE1-205-HE	1112,269,O,275,HZ1,269-O-275-HZ1

1113,270,O,275,HZ2,270-O-275-HZ2	1153,274,O,277,H,274-O-277-H
1114,270,O,273,H,270-O-273-H	1154,274,OE1,279,HH21,274-OE1-279-HH21
1115,270,O,275,HZ3,270-O-275-HZ3	1155,274,OE2,279,HH12,274-OE2-279-HH12
1116,270,O,275,HZ1,270-O-275-HZ1	1156,274,OE1,273,H,274-OE1-273-H
1117,270,OH,290,HE21,270-OH-290-HE21	1157,276,O,275,HZ1,276-O-275-HZ1
1118,270,O,272,H,270-O-272-H	1158,276,O,275,HZ3,276-O-275-HZ3
1119,270,OH,290,HE22,270-OH-290-HE22	1159,276,O,275,HZ2,276-O-275-HZ2
1120,271,O,273,H,271-O-273-H	1160,276,O,278,H,276-O-278-H
1121,271,O,272,HG1,271-O-272-HG1	1161,277,ND1,278,H,277-ND1-278-H
1122,272,OG1,279,HH11,272-OG1-279-HH11	1162,277,O,279,HH11,277-O-279-HH11
1123,272,O,279,HH22,272-O-279-HH22	1163,277,ND1,277,H,277-ND1-277-H
1124,272,OG1,205,HH21,272-OG1-205-HH21	1164,277,O,275,HZ2,277-O-275-HZ2
1125,272,OG1,279,HH12,272-OG1-279-HH12	1165,277,ND1,279,HH21,277-ND1-279-HH21
1126,272,OG1,205,HH22,272-OG1-205-HH22	1166,277,O,279,HH21,277-O-279-HH21
1127,272,OG1,205,HH12,272-OG1-205-HH12	1167,277,O,279,HE,277-O-279-HE
1128,272,O,275,HZ2,272-O-275-HZ2	1168,278,O,158,HH,278-O-158-HH
1129,272,OG1,279,HH22,272-OG1-279-HH22	1169,279,O,279,HE,279-O-279-HE
1130,272,O,275,HZ3,272-O-275-HZ3	1170,280,OD1,282,HG1,280-OD1-282-HG1
1131,272,O,272,HG1,272-O-272-HG1	1171,280,OD2,205,HH12,280-OD2-205-HH12
1132,272,O,279,HH12,272-O-279-HH12	1172,280,O,284,HG,280-O-284-HG
1133,272,O,275,HZ1,272-O-275-HZ1	1173,280,OD2,269,HE2,280-OD2-269-HE2
1134,273,O,275,H,273-O-275-H	1174,280,O,284,H,280-O-284-H
1135,273,O,275,HZ2,273-O-275-HZ2	1175,280,OD1,282,H,280-OD1-282-H
1136,273,O,275,HZ3,273-O-275-HZ3	1176,280,OD2,279,HE,280-OD2-279-HE
1137,274,O,276,H,274-O-276-H	1177,280,OD2,279,HH11,280-OD2-279-HH11
1138,274,OE2,274,H,274-OE2-274-H	1178,280,OD1,269,HE2,280-OD1-269-HE2
1139,274,OE2,273,H,274-OE2-273-H	1179,280,OD1,283,H,280-OD1-283-H
1140,274,OE1,276,H,274-OE1-276-H	1180,280,OD2,279,HH21,280-OD2-279-HH21
1141,274,OE2,275,H,274-OE2-275-H	1181,281,O,285,H,281-O-285-H
1142,274,OE2,277,H,274-OE2-277-H	1182,281,O,284,H,281-O-284-H
1143,274,O,279,HH22,274-O-279-HH22	1183,281,O,284,HG,281-O-284-HG
1144,274,OE1,274,H,274-OE1-274-H	1184,282,O,286,H,282-O-286-H
1145,274,OE1,275,H,274-OE1-275-H	1185,282,O,285,H,282-O-285-H
1146,274,O,275,HZ2,274-O-275-HZ2	1186,283,OD1,279,HH21,283-OD1-279-HH21
1147,274,O,279,HH12,274-O-279-HH12	1187,283,OD2,279,HE,283-OD2-279-HE
1148,274,O,272,HG1,274-O-272-HG1	1188,283,OD2,279,HH21,283-OD2-279-HH21
1149,274,O,279,HH11,274-O-279-HH11	1189,283,O,286,H,283-O-286-H
1150,274,OE2,279,HH22,274-OE2-279-HH22	1190,283,OD2,279,H,283-OD2-279-H
1151,274,OE2,276,H,274-OE2-276-H	1191,283,OD2,269,HE2,283-OD2-269-HE2
1152,274,OE1,279,HH22,274-OE1-279-HH22	1192,283,OD1,275,HZ3,283-OD1-275-HZ3

1193,283,O,275,HZ3,283-O-275-HZ3	1233,290,O,293,HE21,290-O-293-HE21
1194,283,OD1,275,HZ1,283-OD1-275-HZ1	1234,290,OE1,275,HZ2,290-OE1-275-HZ2
1195,283,O,275,HZ2,283-O-275-HZ2	1235,290,O,292,H,290-O-292-H
1196,283,OD2,275,HZ1,283-OD2-275-HZ1	1236,290,O,275,HZ2,290-O-275-HZ2
1197,283,OD2,275,HZ3,283-OD2-275-HZ3	1237,290,O,293,H,290-O-293-H
1198,283,OD2,275,HZ2,283-OD2-275-HZ2	1238,290,OE1,293,HE22,290-OE1-293-HE22
1199,283,OD1,275,HZ2,283-OD1-275-HZ2	1239,290,O,293,HE22,290-O-293-HE22
1200,283,O,287,H,283-O-287-H	1240,290,OE1,275,HZ3,290-OE1-275-HZ3
1201,283,O,275,HZ1,283-O-275-HZ1	1241,290,OE1,270,HH,290-OE1-270-HH
1202,283,OD1,279,HE,283-OD1-279-HE	1242,290,OE1,293,HE21,290-OE1-293-HE21
1203,283,OD1,269,HE2,283-OD1-269-HE2	1243,290,O,294,H,290-O-294-H
1204,284,O,288,H,284-O-288-H	1244,290,OE1,275,HZ1,290-OE1-275-HZ1
1205,285,O,288,H,285-O-288-H	1245,291,OE2,290,HE22,291-OE2-290-HE22
1206,285,O,289,H,285-O-289-H	1246,291,OE2,275,HZ2,291-OE2-275-HZ2
1207,286,O,290,HE22,286-O-290-HE22	1247,291,OE2,275,HZ3,291-OE2-275-HZ3
1208,286,O,290,H,286-O-290-H	1248,291,OE1,275,HZ2,291-OE1-275-HZ2
1209,286,O,289,H,286-O-289-H	1249,291,OE1,275,HZ3,291-OE1-275-HZ3
1210,286,O,290,HE21,286-O-290-HE21	1250,291,O,294,H,291-O-294-H
1211,287,OE1,275,HZ2,287-OE1-275-HZ2	1251,291,O,295,H,291-O-295-H
1212,287,OE1,275,HZ1,287-OE1-275-HZ1	1252,291,OE1,290,HE21,291-OE1-290-HE21
1213,287,O,290,HE21,287-O-290-HE21	1253,291,OE1,293,HE22,291-OE1-293-HE22
1214,287,OE1,275,HZ3,287-OE1-275-HZ3	1254,291,OE1,275,HZ1,291-OE1-275-HZ1
1215,287,OE2,290,HE21,287-OE2-290-HE21	1255,291,O,293,H,291-O-293-H
1216,287,O,291,H,287-O-291-H	1256,291,OE1,290,HE22,291-OE1-290-HE22
1217,287,OE2,275,HZ2,287-OE2-275-HZ2	1257,291,OE2,275,HZ1,291-OE2-275-HZ1
1218,287,OE1,290,HE22,287-OE1-290-HE22	1258,291,OE2,293,HE22,291-OE2-293-HE22
1219,287,OE1,290,HE21,287-OE1-290-HE21	1259,292,O,295,H,292-O-295-H
1220,287,OE1,284,HG,287-OE1-284-HG	1260,293,OE1,292,HZ2,293-OE1-292-HZ2
1221,287,OE2,275,HZ1,287-OE2-275-HZ1	1261,293,OE1,293,H,293-OE1-293-H
1222,287,O,290,H,287-O-290-H	1262,293,NE2,293,H,293-NE2-293-H
1223,287,OE2,275,HZ3,287-OE2-275-HZ3	1263,293,OE1,292,HZ3,293-OE1-292-HZ3
1224,287,OE2,290,HE22,287-OE2-290-HE22	1264,293,O,293,HE21,293-O-293-HE21
1225,288,O,292,H,288-O-292-H	1265,293,OE1,292,HZ1,293-OE1-292-HZ1
1226,288,O,291,H,288-O-291-H	1266,293,OE1,294,H,293-OE1-294-H
1227,289,O,292,HZ2,289-O-292-HZ2	1267,293,OE1,299,H,293-OE1-299-H
1228,289,O,292,H,289-O-292-H	1268,293,O,295,H,293-O-295-H
1229,289,O,292,HZ1,289-O-292-HZ1	1269,295,OD2,297,HD21,295-OD2-297-HD21
1230,289,O,293,HE22,289-O-293-HE22	1270,295,OD1,298,H,295-OD1-298-H
1231,289,O,292,HZ3,289-O-292-HZ3	1271,295,OD2,297,H,295-OD2-297-H
1232,289,O,293,HE21,289-O-293-HE21	1272,295,OD2,288,HE2,295-OD2-288-HE2

1273,295,OD1,296,H,295-OD1-296-H	1313,300,O,302,H,300-O-302-H
1274,295,OD1,297,H,295-OD1-297-H	1314,300,O,292,HZ1,300-O-292-HZ1
1275,295,OD2,136,HH12,295-OD2-136-HH12	1315,301,O,306,HZ2,301-O-306-HZ2
1276,295,OD1,297,HD21,295-OD1-297-HD21	1316,301,OE1,301,H,301-OE1-301-H
1277,295,OD2,298,H,295-OD2-298-H	1317,301,O,306,HZ3,301-O-306-HZ3
1278,295,OD2,296,H,295-OD2-296-H	1318,301,O,301,HE21,301-O-301-HE21
1279,295,OD1,288,HE2,295-OD1-288-HE2	1319,301,O,303,H,301-O-303-H
1280,295,O,298,H,295-O-298-H	1320,301,OE1,299,HD22,301-OE1-299-HD22
1281,295,OD1,136,HH22,295-OD1-136-HH22	1321,301,OE1,299,HD21,301-OE1-299-HD21
1282,296,OE1,136,HH12,296-OE1-136-HH12	1322,301,O,306,HZ1,301-O-306-HZ1
1283,296,O,298,H,296-O-298-H	1323,302,O,292,HZ1,302-O-292-HZ1
1284,296,OE1,136,HH22,296-OE1-136-HH22	1324,302,O,292,HZ2,302-O-292-HZ2
1285,296,OE2,136,HH12,296-OE2-136-HH12	1325,302,O,292,HZ3,302-O-292-HZ3
1286,296,OE1,297,HD22,296-OE1-297-HD22	1326,303,OG,306,HZ1,303-OG-306-HZ1
1287,296,OE2,136,HH22,296-OE2-136-HH22	1327,303,O,292,HZ2,303-O-292-HZ2
1288,296,OE1,297,HD21,296-OE1-297-HD21	1328,303,OG,305,H,303-OG-305-H
1289,296,OE2,297,HD21,296-OE2-297-HD21	1329,303,OG,306,HZ2,303-OG-306-HZ2
1290,296,OE1,296,H,296-OE1-296-H	1330,303,O,307,H,303-O-307-H
1291,296,OE2,296,H,296-OE2-296-H	1331,303,OG,306,H,303-OG-306-H
1292,296,OE2,297,HD22,296-OE2-297-HD22	1332,303,O,306,H,303-O-306-H
1293,297,OD1,136,HE,297-OD1-136-HE	1333,304,OD1,292,HZ3,304-OD1-292-HZ3
1294,297,OD1,136,HH22,297-OD1-136-HH22	1334,304,OD2,292,HZ3,304-OD2-292-HZ3
1295,297,O,134,HH21,297-O-134-HH21	1335,304,OD1,270,HH,304-OD1-270-HH
1296,297,O,288,HE2,297-O-288-HE2	1336,304,OD2,305,H,304-OD2-305-H
1297,297,OD1,136,HH21,297-OD1-136-HH21	1337,304,OD2,292,HZ2,304-OD2-292-HZ2
1298,297,OD1,136,HH11,297-OD1-136-HH11	1338,304,OD2,304,H,304-OD2-304-H
1299,297,O,297,HD21,297-O-297-HD21	1339,304,OD1,292,HZ2,304-OD1-292-HZ2
1300,298,O,299,HD22,298-O-299-HD22	1340,304,O,308,H,304-O-308-H
1301,298,O,300,H,298-O-300-H	1341,304,OD2,292,HZ1,304-OD2-292-HZ1
1302,299,O,293,HE22,299-O-293-HE22	1342,304,OD1,292,HZ1,304-OD1-292-HZ1
1303,299,OD1,300,H,299-OD1-300-H	1343,304,OD2,290,HE22,304-OD2-290-HE22
1304,299,OD1,301,HE21,299-OD1-301-HE21	1344,304,OD2,270,HH,304-OD2-270-HH
1305,299,OD1,301,H,299-OD1-301-H	1345,304,OD1,305,H,304-OD1-305-H
1306,299,O,302,H,299-O-302-H	1346,304,O,307,H,304-O-307-H
1307,299,OD1,301,HE22,299-OD1-301-HE22	1347,304,OD1,304,H,304-OD1-304-H
1308,299,ND2,301,HE22,299-ND2-301-HE22	1348,305,O,259,HH,305-O-259-HH
1309,299,OD1,302,H,299-OD1-302-H	1349,305,OE1,263,HE21,305-OE1-263-HE21
1310,300,O,293,HE22,300-O-293-HE22	1350,305,OE2,270,HH,305-OE2-270-HH
1311,300,O,292,HZ3,300-O-292-HZ3	1351,305,OE2,117,HD22,305-OE2-117-HD22
1312,300,O,292,HZ2,300-O-292-HZ2	1352,305,OE2,305,H,305-OE2-305-H

1353,305,OE1,306,HZ1,305-OE1-306-HZ1	1393,309,OD1,134,HH12,309-OD1-134-HH12
1354,305,OE1,259,HH,305-OE1-259-HH	1394,309,O,309,HD22,309-O-309-HD22
1355,305,OE2,117,HD21,305-OE2-117-HD21	1395,309,O,312,H,309-O-312-H
1356,305,OE1,306,HZ3,305-OE1-306-HZ3	1396,309,OD1,117,HD22,309-OD1-117-HD22
1357,305,OE1,270,HH,305-OE1-270-HH	1397,310,O,314,H,310-O-314-H
1358,305,OE2,309,HD22,305-OE2-309-HD22	1398,310,O,313,H,310-O-313-H
1359,305,OE2,303,HG,305-OE2-303-HG	1399,311,O,314,H,311-O-314-H
1360,305,OE1,117,HD21,305-OE1-117-HD21	1400,311,O,315,H,311-O-315-H
1361,305,OE1,306,HZ2,305-OE1-306-HZ2	1401,312,O,516,H13,312-O-516-H13
1362,305,OE1,119,HE21,305-OE1-119-HE21	1402,312,O,316,H,312-O-316-H
1363,305,O,117,HD22,305-O-117-HD22	1403,313,OD1,309,HD22,313-OD1-309-HD22
1364,305,O,309,HD22,305-O-309-HD22	1404,313,OD2,121,H,313-OD2-121-H
1365,305,OE2,306,HZ2,305-OE2-306-HZ2	1405,313,OD2,309,HD22,313-OD2-309-HD22
1366,305,OE1,263,HE22,305-OE1-263-HE22	1406,313,OD1,313,H,313-OD1-313-H
1367,305,OE2,263,HE21,305-OE2-263-HE21	1407,313,OD2,120,HG,313-OD2-120-HG
1368,305,OE1,305,H,305-OE1-305-H	1408,313,OD1,516,H13,313-OD1-516-H13
1369,305,OE2,263,HE22,305-OE2-263-HE22	1409,313,OD1,120,HG,313-OD1-120-HG
1370,305,O,119,HE22,305-O-119-HE22	1410,313,OD1,116,HG,313-OD1-116-HG
1371,305,O,309,H,305-O-309-H	1411,313,OD2,122,HG,313-OD2-122-HG
1372,305,OE1,119,HE22,305-OE1-119-HE22	1412,313,OD1,122,HG,313-OD1-122-HG
1373,305,OE2,306,HZ1,305-OE2-306-HZ1	1413,313,OD2,309,HD21,313-OD2-309-HD21
1374,305,OE1,117,HD22,305-OE1-117-HD22	1414,313,O,317,H,313-O-317-H
1375,305,OE2,259,HH,305-OE2-259-HH	1415,313,OD1,122,H,313-OD1-122-H
1376,305,OE1,303,HG,305-OE1-303-HG	1416,313,OD2,116,HG,313-OD2-116-HG
1377,305,OE2,306,HZ3,305-OE2-306-HZ3	1417,313,OD1,121,H,313-OD1-121-H
1378,306,O,134,HH12,306-O-134-HH12	1418,313,OD2,122,H,313-OD2-122-H
1379,306,O,119,HE21,306-O-119-HE21	1419,313,OD2,516,H13,313-OD2-516-H13
1380,306,O,309,HD21,306-O-309-HD21	1420,314,O,318,H,314-O-318-H
1381,306,O,134,HE,306-O-134-HE	1421,314,O,317,H,314-O-317-H
1382,306,O,119,HE22,306-O-119-HE22	1422,315,O,317,H,315-O-317-H
1383,306,O,134,HH21,306-O-134-HH21	1423,315,O,319,H,315-O-319-H
1384,306,O,134,HH22,306-O-134-HH22	1424,316,O,516,H13,316-O-516-H13
1385,307,O,310,H,307-O-310-H	1425,316,O,320,H,316-O-320-H
1386,307,O,134,HH21,307-O-134-HH21	1426,317,O,322,H,317-O-322-H
1387,308,O,311,H,308-O-311-H	1427,317,O,321,H,317-O-321-H
1388,308,O,310,H,308-O-310-H	1428,317,O,320,H,317-O-320-H
1389,309,OD1,134,HH22,309-OD1-134-HH22	1429,317,O,321,HG1,317-O-321-HG1
1390,309,OD1,134,HH21,309-OD1-134-HH21	1430,318,O,322,H,318-O-322-H
1391,309,OD1,119,HE21,309-OD1-119-HE21	1431,318,O,323,HG1,318-O-323-HG1
1392,309,O,313,H,309-O-313-H	1432,318,O,323,H,318-O-323-H

1433,319,O,323,HG1,319-O-323-HG1	1473,325,O,329,H,325-O-329-H
1434,319,O,221,HD22,319-O-221-HD22	1474,325,O,329,HG,325-O-329-HG
1435,319,O,221,HD21,319-O-221-HD21	1475,326,O,329,H,326-O-329-H
1436,319,O,222,HD22,319-O-222-HD22	1476,326,O,329,HG,326-O-329-HG
1437,319,O,222,HD21,319-O-222-HD21	1477,326,O,330,H,326-O-330-H
1438,320,OD1,222,H,320-OD1-222-H	1478,327,O,331,H,327-O-331-H
1439,320,OD1,324,HG1,320-OD1-324-HG1	1479,328,O,332,H,328-O-332-H
1440,320,O,324,H,320-O-324-H	1480,328,O,331,H,328-O-331-H
1441,320,OD2,499,HZ1,320-OD2-499-HZ1	1481,329,O,333,H,329-O-333-H
1442,320,OD2,499,HZ3,320-OD2-499-HZ3	1482,330,O,333,H,330-O-333-H
1443,320,OD1,499,HZ1,320-OD1-499-HZ1	1483,330,O,334,H,330-O-334-H
1444,320,OD2,187,HH,320-OD2-187-HH	1484,331,O,334,H,331-O-334-H
1445,320,OD2,499,HZ2,320-OD2-499-HZ2	1485,331,O,335,H,331-O-335-H
1446,320,OD1,221,HD21,320-OD1-221-HD21	1486,332,O,336,H,332-O-336-H
1447,320,OD1,222,HD21,320-OD1-222-HD21	1487,332,O,335,H,332-O-335-H
1448,320,OD2,222,HD21,320-OD2-222-HD21	1488,332,O,336,HD22,332-O-336-HD22
1449,320,OD1,497,HG1,320-OD1-497-HG1	1489,333,O,336,H,333-O-336-H
1450,320,OD2,221,HD21,320-OD2-221-HD21	1490,333,O,340,HE21,333-O-340-HE21
1451,320,OD1,222,HD22,320-OD1-222-HD22	1491,335,O,336,HD22,335-O-336-HD22
1452,320,OD2,324,HG1,320-OD2-324-HG1	1492,336,OD1,338,H,336-OD1-338-H
1453,320,O,324,HG1,320-O-324-HG1	1493,336,OD1,339,H,336-OD1-339-H
1454,320,OD1,499,HZ2,320-OD1-499-HZ2	1494,336,O,340,H,336-O-340-H
1455,320,OD2,222,HD22,320-OD2-222-HD22	1495,336,O,339,H,336-O-339-H
1456,320,OD2,497,HG1,320-OD2-497-HG1	1496,337,O,340,H,337-O-340-H
1457,320,OD1,187,HH,320-OD1-187-HH	1497,337,O,341,H,337-O-341-H
1458,320,OD1,499,HZ3,320-OD1-499-HZ3	1498,338,O,342,H,338-O-342-H
1459,321,O,325,H,321-O-325-H	1499,339,O,343,H,339-O-343-H
1460,321,OG1,322,H,321-OG1-322-H	1500,339,O,342,H,339-O-342-H
1461,321,O,324,H,321-O-324-H	1501,340,OE1,344,HE21,340-OE1-344-HE21
1462,322,O,325,H,322-O-325-H	1502,340,O,343,H,340-O-343-H
1463,322,O,326,H,322-O-326-H	1503,340,O,344,H,340-O-344-H
1464,323,O,327,HG,323-O-327-HG	1504,340,OE1,344,HE22,340-OE1-344-HE22
1465,323,O,327,H,323-O-327-H	1505,340,OE1,480,H,340-OE1-480-H
1466,324,OG1,497,HG1,324-OG1-497-HG1	1506,341,O,345,H,341-O-345-H
1467,324,OG1,499,HZ3,324-OG1-499-HZ3	1507,342,O,342,HZ2,342-O-342-HZ2
1468,324,O,328,H,324-O-328-H	1508,342,O,346,H,342-O-346-H
1469,324,O,327,HG,324-O-327-HG	1509,342,O,345,H,342-O-345-H
1470,324,OG1,499,HZ1,324-OG1-499-HZ1	1510,343,O,347,H,343-O-347-H
1471,324,O,327,H,324-O-327-H	1511,343,O,346,H,343-O-346-H
1472,324,OG1,499,HZ2,324-OG1-499-HZ2	1512,344,OE1,341,HH11,344-OE1-341-HH11

1513,344,O,511,HH22,344-O-511-HH22
1514,344,O,348,H,344-O-348-H
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1520,345,OE1,342,HZ3,345-OE1-342-HZ3
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1527,345,OE2,341,HH22,345-OE2-341-HH22
1528,345,OE1,341,HH21,345-OE1-341-HH21
1529,345,OE1,341,HH12,345-OE1-341-HH12
1530,345,OE1,341,HE,345-OE1-341-HE
1531,345,OE2,341,HH21,345-OE2-341-HH21
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1538,346,O,350,H,346-O-350-H
1539,346,OE1,349,HG1,346-OE1-349-HG1
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1564,352,O,354,H,352-O-354-H
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1567,354,O,354,HG,354-O-354-HG
1568,354,OG,355,H,354-OG-355-H
1569,355,O,476,HE22,355-O-476-HE22
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1577,360,O,360,HG,360-O-360-HG
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1585,361,OD2,358,H,361-OD2-358-H
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1590,361,OD1,364,HE2,361-OD1-364-HE2
1591,362,O,365,H,362-O-365-H
1592,364,ND1,363,HG,364-ND1-363-HG

1593,365,O,368,H,365-O-368-H	1633,374,OE1,377,HE,374-OE1-377-HE
1594,365,O,369,H,365-O-369-H	1634,374,OE2,431,HH22,374-OE2-431-HH22
1595,366,O,370,H,366-O-370-H	1635,374,OE2,428,H,374-OE2-428-H
1596,366,O,369,H,366-O-369-H	1636,375,O,379,H,375-O-379-H
1597,367,O,370,H,367-O-370-H	1637,375,OG1,329,HG,375-OG1-329-HG
1598,367,O,371,H,367-O-371-H	1638,375,O,379,HG,375-O-379-HG
1599,368,O,371,H,368-O-371-H	1639,376,O,380,H,376-O-380-H
1600,368,O,372,H,368-O-372-H	1640,377,O,416,HE2,377-O-416-HE2
1601,369,OE1,362,HE,369-OE1-362-HE	1641,377,O,380,HG,377-O-380-HG
1602,369,OE2,465,HE1,369-OE2-465-HE1	1642,378,ND1,332,HH,378-ND1-332-HH
1603,369,OE2,464,HH21,369-OE2-464-HH21	1643,378,O,416,HE2,378-O-416-HE2
1604,369,OE2,362,HH11,369-OE2-362-HH11	1644,379,O,412,HE1,379-O-412-HE1
1605,369,OE1,464,HE,369-OE1-464-HE	1645,379,OG,381,H,379-OG-381-H
1606,369,O,373,H,369-O-373-H	1646,380,O,380,HG,380-O-380-HG
1607,369,OE1,465,HE1,369-OE1-465-HE1	1647,380,O,382,H,380-O-382-H
1608,369,OE2,464,HE,369-OE2-464-HE	1648,380,OG,416,HE2,380-OG-416-HE2
1609,369,O,372,H,369-O-372-H	1649,380,OG,415,HD22,380-OG-415-HD22
1610,369,OE2,362,HH12,369-OE2-362-HH12	1650,381,O,498,H,381-O-498-H
1611,369,OE2,362,HE,369-OE2-362-HE	1651,381,O,497,HG1,381-O-497-HG1
1612,369,OE2,464,HH22,369-OE2-464-HH22	1652,382,O,411,HE21,382-O-411-HE21
1613,369,OE1,362,HH21,369-OE1-362-HH21	1653,383,O,411,H,383-O-411-H
1614,369,OE1,464,HH21,369-OE1-464-HH21	1654,383,O,412,H,383-O-412-H
1615,369,OE2,362,HH21,369-OE2-362-HH21	1655,385,O,230,HG,385-O-230-HG
1616,369,OE1,362,HH11,369-OE1-362-HH11	1656,385,OG1,409,H,385-OG1-409-H
1617,370,O,374,H,370-O-374-H	1657,386,O,385,HG1,386-O-385-HG1
1618,371,O,375,H,371-O-375-H	1658,386,O,106,HH12,386-O-106-HH12
1619,371,O,375,HG1,371-O-375-HG1	1659,386,O,106,HH11,386-O-106-HH11
1620,372,O,375,H,372-O-375-H	1660,387,O,106,HH11,387-O-106-HH11
1621,372,O,376,H,372-O-376-H	1661,388,O,407,H,388-O-407-H
1622,373,O,377,H,373-O-377-H	1662,388,NE2,385,HG1,388-NE2-385-HG1
1623,374,OE1,431,HH22,374-OE1-431-HH22	1663,388,O,389,HG,388-O-389-HG
1624,374,OE2,431,HH12,374-OE2-431-HH12	1664,389,O,105,H,389-O-105-H
1625,374,OE2,431,HH11,374-OE2-431-HH11	1665,389,O,389,HG,389-O-389-HG
1626,374,OE1,428,H,374-OE1-428-H	1666,389,O,391,H,389-O-391-H
1627,374,O,378,H,374-O-378-H	1667,390,OG1,405,H,390-OG1-405-H
1628,374,OE1,431,HH12,374-OE1-431-HH12	1668,390,O,404,H,390-O-404-H
1629,374,OE2,377,HH21,374-OE2-377-HH21	1669,390,OG1,404,H,390-OG1-404-H
1630,374,OE1,431,HH11,374-OE1-431-HH11	1670,391,OG1,104,HZ3,391-OG1-104-HZ3
1631,374,OE1,377,HH21,374-OE1-377-HH21	1671,391,O,403,HZ2,391-O-403-HZ2
1632,374,OE2,377,HE,374-OE2-377-HE	1672,391,OG1,105,H,391-OG1-105-H

1673,391,O,403,HZ1,391-O-403-HZ1	1713,405,O,389,HG,405-O-389-HG
1674,391,OG1,104,HZ2,391-OG1-104-HZ2	1714,405,O,390,H,405-O-390-H
1675,391,O,403,HZ3,391-O-403-HZ3	1715,406,O,84,H,406-O-84-H
1676,391,OG1,104,H,391-OG1-104-H	1716,407,O,388,H,407-O-388-H
1677,391,OG1,104,HZ1,391-OG1-104-HZ1	1717,408,O,86,H,408-O-86-H
1678,393,O,392,HH11,393-O-392-HH11	1718,409,O,385,H,409-O-385-H
1679,393,OD1,400,HH,393-OD1-400-HH	1719,409,O,411,H,409-O-411-H
1680,393,OD1,393,H,393-OD1-393-H	1720,410,OD1,413,H,410-OD1-413-H
1681,393,OD2,393,H,393-OD2-393-H	1721,410,OD1,411,H,410-OD1-411-H
1682,393,OD1,403,HZ3,393-OD1-403-HZ3	1722,410,O,413,H,410-O-413-H
1683,393,OD1,403,H,393-OD1-403-H	1723,410,OD1,412,H,410-OD1-412-H
1684,393,OD2,403,H,393-OD2-403-H	1724,411,OE1,451,H,411-OE1-451-H
1685,393,OD2,403,HZ1,393-OD2-403-HZ1	1725,411,O,415,H,411-O-415-H
1686,393,OD2,400,HH,393-OD2-400-HH	1726,411,O,414,H,411-O-414-H
1687,393,OD1,403,HZ2,393-OD1-403-HZ2	1727,411,O,415,HD22,411-O-415-HD22
1688,393,OD2,403,HZ2,393-OD2-403-HZ2	1728,412,O,416,H,412-O-416-H
1689,393,OD1,403,HZ1,393-OD1-403-HZ1	1729,412,O,414,H,412-O-414-H
1690,393,OD2,403,HZ3,393-OD2-403-HZ3	1730,412,O,415,H,412-O-415-H
1691,394,O,401,H,394-O-401-H	1731,413,OE1,67,HG,413-OE1-67-HG
1692,394,O,395,HG,394-O-395-HG	1732,413,O,413,HE21,413-O-413-HE21
1693,394,OG1,395,H,394-OG1-395-H	1733,413,NE2,87,HG,413-NE2-87-HG
1694,394,OG1,99,HE22,394-OG1-99-HE22	1734,413,O,416,H,413-O-416-H
1695,394,OG1,99,HE21,394-OG1-99-HE21	1735,413,OE1,68,HE21,413-OE1-68-HE21
1696,395,O,99,HE22,395-O-99-HE22	1736,413,NE2,68,HE22,413-NE2-68-HE22
1697,395,O,99,HE21,395-O-99-HE21	1737,413,OE1,87,HG,413-OE1-87-HG
1698,396,O,398,H,396-O-398-H	1738,413,OE1,410,HD22,413-OE1-410-HD22
1699,396,O,399,H,396-O-399-H	1739,413,NE2,68,HE21,413-NE2-68-HE21
1700,397,O,38,HZ3,397-O-38-HZ3	1740,413,O,417,H,413-O-417-H
1701,398,O,38,H,398-O-38-H	1741,414,O,421,HE1,414-O-421-HE1
1702,398,O,38,HZ3,398-O-38-HZ3	1742,414,O,417,H,414-O-417-H
1703,398,O,38,HZ1,398-O-38-HZ1	1743,415,OD1,448,H,415-OD1-448-H
1704,398,O,38,HZ2,398-O-38-HZ2	1744,415,O,377,HH11,415-O-377-HH11
1705,399,O,395,HG,399-O-395-HG	1745,416,ND1,377,HH12,416-ND1-377-HH12
1706,399,O,396,H,399-O-396-H	1746,417,OD2,419,HZ3,417-OD2-419-HZ3
1707,400,O,39,HD22,400-O-39-HD22	1747,417,OD1,418,HE21,417-OD1-418-HE21
1708,401,O,394,H,401-O-394-H	1748,417,OD2,420,H,417-OD2-420-H
1709,402,O,390,HG1,402-O-390-HG1	1749,417,OD2,413,HE22,417-OD2-413-HE22
1710,403,O,405,HH11,403-O-405-HH11	1750,417,OD1,413,HE21,417-OD1-413-HE21
1711,404,O,405,HH11,404-O-405-HH11	1751,417,OD1,68,HE22,417-OD1-68-HE22
1712,405,O,390,HG1,405-O-390-HG1	1752,417,OD2,419,HZ1,417-OD2-419-HZ1

1753,417,OD1,419,H,417-OD1-419-H	1793,426,O,431,HH22,426-O-431-HH22
1754,417,OD1,420,H,417-OD1-420-H	1794,426,OE1,427,H,426-OE1-427-H
1755,417,O,420,H,417-O-420-H	1795,426,OE1,423,HD21,426-OE1-423-HD21
1756,417,OD2,68,HE22,417-OD2-68-HE22	1796,426,OE2,425,HG,426-OE2-425-HG
1757,417,OD1,419,HZ3,417-OD1-419-HZ3	1797,426,OE2,427,H,426-OE2-427-H
1758,417,OD2,419,HZ2,417-OD2-419-HZ2	1798,426,OE2,423,HD21,426-OE2-423-HD21
1759,417,O,421,H,417-O-421-H	1799,426,OE1,423,HD22,426-OE1-423-HD22
1760,417,OD1,419,HZ2,417-OD1-419-HZ2	1800,426,OE1,425,HG,426-OE1-425-HG
1761,417,OD1,419,HZ1,417-OD1-419-HZ1	1801,427,O,338,HH21,427-O-338-HH21
1762,417,OD2,419,H,417-OD2-419-H	1802,428,O,431,H,428-O-431-H
1763,417,OD2,413,HE21,417-OD2-413-HE21	1803,428,O,431,HH11,428-O-431-HH11
1764,418,OE1,68,HE22,418-OE1-68-HE22	1804,429,O,432,H,429-O-432-H
1765,418,OE1,423,H,418-OE1-423-H	1805,429,O,433,H,429-O-433-H
1766,418,OE1,419,H,418-OE1-419-H	1806,430,OE1,430,H,430-OE1-430-H
1767,418,NE2,418,H,418-NE2-418-H	1807,430,OE1,342,HZ1,430-OE1-342-HZ1
1768,418,OE1,418,H,418-OE1-418-H	1808,430,OE2,367,HH,430-OE2-367-HH
1769,418,O,420,H,418-O-420-H	1809,430,OE2,430,H,430-OE2-430-H
1770,418,O,418,HE21,418-O-418-HE21	1810,430,OE1,338,HH12,430-OE1-338-HH12
1771,420,O,446,HZ1,420-O-446-HZ1	1811,430,OE1,342,HZ3,430-OE1-342-HZ3
1772,420,O,422,H,420-O-422-H	1812,430,OE2,338,HH22,430-OE2-338-HH22
1773,420,O,446,HZ2,420-O-446-HZ2	1813,430,OE2,342,HZ3,430-OE2-342-HZ3
1774,420,O,446,HZ3,420-O-446-HZ3	1814,430,OE1,342,HZ2,430-OE1-342-HZ2
1775,421,O,418,HE21,421-O-418-HE21	1815,430,O,433,H,430-O-433-H
1776,422,O,431,HE,422-O-431-HE	1816,430,OE2,342,HZ1,430-OE2-342-HZ1
1777,422,O,431,HH21,422-O-431-HH21	1817,430,OE1,338,HH22,430-OE1-338-HH22
1778,423,OD1,426,H,423-OD1-426-H	1818,430,OE2,342,HZ2,430-OE2-342-HZ2
1779,423,O,431,HH22,423-O-431-HH22	1819,430,OE2,338,HH12,430-OE2-338-HH12
1780,423,OD1,418,HE22,423-OD1-418-HE22	1820,430,OE1,367,HH,430-OE1-367-HH
1781,423,O,426,H,423-O-426-H	1821,432,O,440,H,432-O-440-H
1782,423,O,431,HH21,423-O-431-HH21	1822,434,OG1,436,H,434-OG1-436-H
1783,423,OD1,425,H,423-OD1-425-H	1823,434,OG1,437,H,434-OG1-437-H
1784,423,O,423,HD22,423-O-423-HD22	1824,434,OG1,438,H,434-OG1-438-H
1785,423,OD1,425,HG,423-OD1-425-HG	1825,434,O,437,H,434-O-437-H
1786,424,O,377,HH12,424-O-377-HH12	1826,436,OD2,434,HG1,436-OD2-434-HG1
1787,424,O,377,HH22,424-O-377-HH22	1827,436,OD2,438,H,436-OD2-438-H
1788,425,O,425,HG,425-O-425-HG	1828,436,OD1,434,HG1,436-OD1-434-HG1
1789,425,O,378,HE2,425-O-378-HE2	1829,436,OD1,436,H,436-OD1-436-H
1790,426,OE2,423,HD22,426-OE2-423-HD22	1830,436,OD1,438,H,436-OD1-438-H
1791,426,O,431,HH12,426-O-431-HH12	1831,436,O,438,H,436-O-438-H
1792,426,O,431,HH21,426-O-431-HH21	1832,436,OD2,436,H,436-OD2-436-H

1833,438,O,434,HG1,438-O-434-HG1
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1864,445,OE1,441,HZ1,445-OE1-441-HZ1
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1995,483,O,487,HZ2,483-O-487-HZ2	2035,497,OG1,324,HG1,497-OG1-324-HG1
1996,483,O,485,H,483-O-485-H	2036,497,O,499,HZ1,497-O-499-HZ1
1997,483,O,486,H,483-O-486-H	2037,497,O,499,HZ3,497-O-499-HZ3
1998,483,O,487,HZ3,483-O-487-HZ3	2038,497,O,499,HZ2,497-O-499-HZ2
1999,484,O,486,H,484-O-486-H	2039,497,OG1,499,HZ1,497-OG1-499-HZ1
2000,485,O,487,HZ3,485-O-487-HZ3	2040,497,OG1,499,HZ2,497-OG1-499-HZ2
2001,485,O,487,HZ1,485-O-487-HZ1	2041,498,O,328,HE1,498-O-328-HE1
2002,485,O,487,HZ2,485-O-487-HZ2	2042,499,O,493,H,499-O-493-H
2003,486,O,488,H,486-O-488-H	2043,500,NE2,327,HG,500-NE2-327-HG
2004,486,O,487,HZ1,486-O-487-HZ1	2044,500,NE2,502,H,500-NE2-502-H
2005,486,O,505,HE2,486-O-505-HE2	2045,500,NE2,503,H,500-NE2-503-H
2006,487,O,505,HE2,487-O-505-HE2	2046,500,O,500,HD1,500-O-500-HD1
2007,487,O,489,H,487-O-489-H	2047,500,O,502,H,500-O-502-H
2008,488,O,487,HZ1,488-O-487-HZ1	2048,501,O,500,HD1,501-O-500-HD1
2009,488,O,487,HZ2,488-O-487-HZ2	2049,501,O,503,H,501-O-503-H
2010,488,O,487,HZ3,488-O-487-HZ3	2050,502,O,487,HZ2,502-O-487-HZ2
2011,489,OD1,487,HZ3,489-OD1-487-HZ3	2051,502,O,185,HD22,502-O-185-HD22
2012,489,OD1,491,HG1,489-OD1-491-HG1	2052,502,O,487,HZ1,502-O-487-HZ1
2013,489,OD2,491,H,489-OD2-491-H	2053,502,O,504,H,502-O-504-H
2014,489,O,491,H,489-O-491-H	2054,502,O,185,HD21,502-O-185-HD21
2015,489,OD1,487,HZ1,489-OD1-487-HZ1	2055,503,O,505,H,503-O-505-H
2016,489,OD2,491,HG1,489-OD2-491-HG1	2056,503,O,185,HD22,503-O-185-HD22
2017,489,O,491,HG1,489-O-491-HG1	2057,504,OE1,188,HH22,504-OE1-188-HH22
2018,489,OD1,489,H,489-OD1-489-H	2058,504,OE1,185,HD22,504-OE1-185-HD22
2019,489,O,501,H,489-O-501-H	2059,504,OE2,188,HH21,504-OE2-188-HH21
2020,489,OD2,490,H,489-OD2-490-H	2060,504,OE1,188,HH12,504-OE1-188-HH12
2021,489,OD2,487,HZ3,489-OD2-487-HZ3	2061,504,OE2,188,HH12,504-OE2-188-HH12
2022,489,OD1,491,H,489-OD1-491-H	2062,504,OE2,188,HE,504-OE2-188-HE
2023,489,OD1,487,HZ2,489-OD1-487-HZ2	2063,504,OE1,188,HH21,504-OE1-188-HH21
2024,489,OD1,490,H,489-OD1-490-H	2064,504,OE1,188,HE,504-OE1-188-HE
2025,490,O,501,H,490-O-501-H	2065,504,OE2,185,HD22,504-OE2-185-HD22
2026,490,O,491,HG1,490-O-491-HG1	2066,504,OE2,188,HH22,504-OE2-188-HH22
2027,491,O,501,H,491-O-501-H	2067,505,ND1,505,H,505-ND1-505-H
2028,492,O,57,HZ2,492-O-57-HZ2	2068,505,ND1,504,H,505-ND1-504-H
2029,492,O,58,HD21,492-O-58-HD21	2069,506,O,184,H,506-O-184-H
2030,493,O,499,H,493-O-499-H	2070,507,OE1,481,HG,507-OE1-481-HG
2031,494,OH,230,HG,494-OH-230-HG	2071,507,OE1,183,HE2,507-OE1-183-HE2
2032,494,O,222,HD22,494-O-222-HD22	2072,507,O,481,H,507-O-481-H

2073,507,OE1,505,HE2,507-OE1-505-HE2
2074,507,OE1,509,HE22,507-OE1-509-HE22
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2107,515,O1,516,H9,515-O1-516-H9