

wwPDB X-ray Structure Validation Summary Report (i)

May 25, 2020 - 02:40 pm BST

PDB ID	:	50MO
Title	:	CRYSTAL STRUCTURE OF RAT PEROXISOMAL MULTIFUNCTIONAL
		ENZYME TYPE-1 (RPMFE1) COMPLEXED WITH WITH 3S-HYDROXY
		-DECANOYL-COA AND 3-KETO-DECANOYL-COA
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Deposited on		
Resolution	:	2.49 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org A user guide is available at https://www.wwpdb.org/validation/2017/XrayValidationReportHelp with specific help available everywhere you see the (i) symbol.

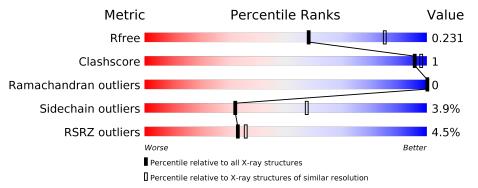
The following versions of software and data (see references (1)) were used in the production of this report:

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X-RAY DIFFRACTION

The reported resolution of this entry is 2.49 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries},{ m resolution\ range}({ m \AA}))$
R_{free}	130704	4661(2.50-2.50)
Clashscore	141614	$5346 \ (2.50-2.50)$
Ramachandran outliers	138981	5231(2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain		
1	А	742	91%	6%	•••
1	В	742	92%	5%	•



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 11586 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	А	725	Total 5562	$ m C \\ 3553$	N 976	O 1010	S 23	0	0	0
1	В	718	Total 5514	$ m C \\ 3526$	N 964	O 1001	S 23	0	0	0

• Molecule 1 is a protein called Peroxisomal bifunctional enzyme.

Chain	Residue	Modelled	Actual	Comment	Reference
А	-19	MET	-	initiating methionine	UNP P07896
А	-18	GLY	_	expression tag	UNP P07896
А	-17	SER	-	expression tag	UNP P07896
А	-16	SER	-	expression tag	UNP P07896
А	-15	HIS	-	expression tag	UNP P07896
А	-14	HIS	-	expression tag	UNP P07896
А	-13	HIS	-	expression tag	UNP P07896
А	-12	HIS	-	expression tag	UNP P07896
А	-11	HIS	-	expression tag	UNP P07896
А	-10	HIS	-	expression tag	UNP P07896
А	-9	SER	-	expression tag	UNP P07896
А	-8	SER	-	expression tag	UNP P07896
А	-7	GLY	-	expression tag	UNP P07896
А	-6	LEU	-	expression tag	UNP P07896
А	-5	VAL	-	expression tag	UNP P07896
А	-4	PRO	-	expression tag	UNP P07896
А	-3	ARG	-	expression tag	UNP P07896
А	-2	GLY	-	expression tag	UNP P07896
А	-1	SER	-	expression tag	UNP P07896
А	0	HIS	-	expression tag	UNP P07896
В	-19	MET	-	initiating methionine	UNP P07896
В	-18	GLY	-	expression tag	UNP P07896
В	-17	SER	-	expression tag	UNP P07896
В	-16	SER	-	expression tag	UNP P07896
В	-15	HIS	-	expression tag	UNP P07896

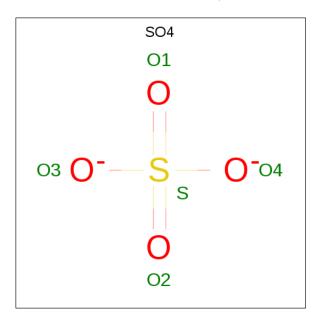
There are 40 discrepancies between the modelled and reference sequences:



Chain	Residue	Modelled	Actual	$\mathbf{Comment}$	Reference
В	-14	HIS	-	expression tag	UNP P07896
В	-13	HIS	-	expression tag	UNP P07896
В	-12	HIS	-	expression tag	UNP P07896
В	-11	HIS	-	expression tag	UNP P07896
В	-10	HIS	-	expression tag	UNP P07896
В	-9	SER	-	expression tag	UNP P07896
В	-8	SER	-	expression tag	UNP P07896
В	-7	GLY	-	expression tag	UNP P07896
В	-6	LEU	-	expression tag	UNP P07896
В	-5	VAL	-	expression tag	UNP P07896
В	-4	PRO	-	expression tag	UNP P07896
В	-3	ARG	-	expression tag	UNP P07896
В	-2	GLY	-	expression tag	UNP P07896
В	-1	SER	-	expression tag	UNP P07896
В	0	HIS	-	expression tag	UNP P07896

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• Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O_4S).



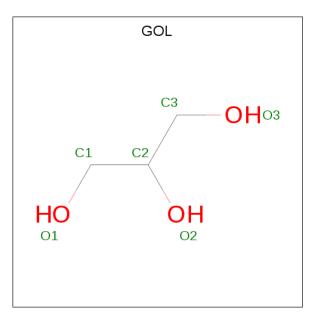
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	А	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0



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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0
2	В	1	$\begin{array}{ccc} \text{Total} & \text{O} & \text{S} \\ 5 & 4 & 1 \end{array}$	0	0

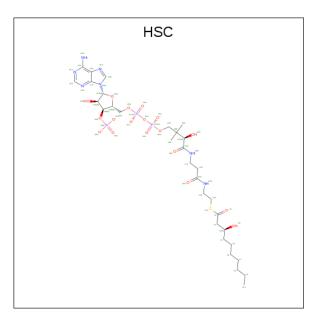
• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} {\rm Total} & {\rm C} & {\rm O} \\ 6 & 3 & 3 \end{array}$	0	0
3	А	1	$\begin{array}{ccc} {\rm Total} & {\rm C} & {\rm O} \\ 6 & 3 & 3 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0

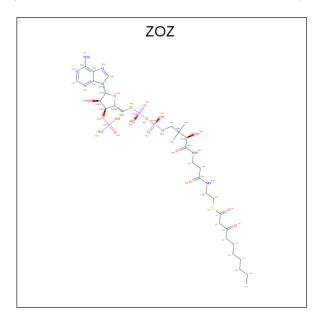
• Molecule 4 is (S)-3-HYDROXYDECANOYL-COA (three-letter code: HSC) (formula: $C_{31}H_{50}N_7O_{18}P_3S$) (labeled as "Ligand of Interest" by author).





Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
4	Δ	1	Total	С	Ν	Ο	Р	S	0	0
4	А	T	60	31	$\overline{7}$	18	3	1	U	0
4	р	1	Total	С	Ν	Ο	Р	S	0	0
4	D	T	60	31	7	18	3	1	0	0

• Molecule 5 is 3-KETO-DECANOYL-COA (three-letter code: ZOZ) (formula: C₃₁H₅₂N₇O₁₈P₃S) (labeled as "Ligand of Interest" by author).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
5	А	1	Total 60	С 31	N 7	O 18	Р 3	S 1	0	0



• Molecule 6 is water.

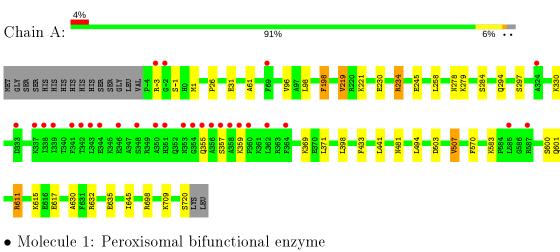
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	190	Total O 190 190	0	0
6	В	92	TotalO9292	0	0



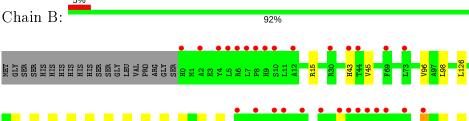
3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

5%



• Molecule 1: Peroxisomal bifunctional enzyme



Y449 R220 K463 K221 K50 K221 K514 K221 V507 E245 K50 E244 K31 E344 K11 E344 K11 K389 K11 K389 K11 K389 K344 K389 K344 K389 K344 K386 K344 K386 K344 K386 K344 K386 K344 K386 K345 K386 K346 K346 K346 K346 K346 K346 K346 K346 K346 K



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	64.96Å 125.08Å 223.53Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.90 - 2.49	Depositor
Resolution (A)	47.90 - 2.49	EDS
% Data completeness	98.7 (47.90-2.49)	Depositor
(in resolution range)	98.8(47.90-2.49)	EDS
R _{merge}	0.06	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.48 (at 2.48 Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
D D.	0.193 , 0.228	Depositor
R, R_{free}	0.196 , 0.231	DCC
R_{free} test set	3208 reflections $(5.00%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	40.5	Xtriage
Anisotropy	0.374	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.33 , 37.9	EDS
L-test for twinning ²	$ \langle L \rangle = 0.43, \langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	11586	wwPDB-VP
Average B, all atoms $(Å^2)$	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.97% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, ZOZ, SO4, HSC

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 5 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond	lengths	Bo	Bond angles		
		RMSZ	# Z > 5	RMSZ	# Z > 5		
1	А	0.57	0/5691	0.75	6/7709~(0.1%)		
1	В	0.52	0/5641	0.71	2/7643~(0.0%)		
All	All	0.54	0/11332	0.73	8/15352~(0.1%)		

There are no bond length outliers.

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
1	А	570	PHE	CB-CG-CD1	6.24	125.17	120.80
1	А	611	ARG	NE-CZ-NH1	6.09	123.35	120.30
1	В	611	ARG	NE-CZ-NH1	5.89	123.25	120.30
1	А	570	PHE	CB-CG-CD2	-5.41	117.01	120.80
1	А	198	PHE	CB-CG-CD1	5.38	124.57	120.80

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	5562	0	5667	13	0
1	В	5514	0	5624	12	0
2	А	15	0	0	0	0
2	В	15	0	0	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	А	12	0	16	0	0
3	В	6	0	8	0	0
4	А	60	0	50	2	0
4	В	60	0	50	3	0
5	А	60	0	0	1	0
6	А	190	0	0	0	0
6	В	92	0	0	0	0
All	All	11586	0	11415	25	0

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The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

The worst 5 of 25 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:503:ASP:O	1:A:507:VAL:HG13	1.93	0.67
1:B:96:VAL:HG21	4:B:805:HSC:HDP	1.86	0.56
1:A:601:GLN:HG3	1:B:382:PHE:CD2	2.42	0.55
1:A:433:PHE:CE1	1:A:441:LEU:HD23	2.42	0.55
1:B:307:MET:HG2	1:B:408:ASN:ND2	2.26	0.51

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	alysed Favoured Allowed		Outliers	Percentiles		
1	А	723/742~(97%)	704 (97%)	19 (3%)	0	100	100	
1	В	716/742~(96%)	699~(98%)	17 (2%)	0	100	100	
All	All	1439/1484~(97%)	1403~(98%)	36 (2%)	0	100	100	

There are no Ramachandran outliers to report.



5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	lysed Rotameric Outliers		Percentiles		
1	А	594/609~(98%)	569~(96%)	25~(4%)	30 54		
1	В	589/609~(97%)	568~(96%)	21 (4%)	35 61		
All	All	1183/1218~(97%)	1137 (96%)	46 (4%)	32 57		

5 of 46 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	600	SER
1	В	15	ARG
1	В	514	LYS
1	А	615	LYS
1	А	709	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

12 ligands are modelled in this entry.



In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with |Z| > 2 is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Trees	Chain	Res	Link	Bo	ond leng	ths	B	ond ang	les
	Type	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	SO4	А	803	-	4,4,4	0.35	0	6,6,6	0.19	0
2	SO4	В	802	-	4,4,4	0.42	0	6,6,6	0.35	0
4	HSC	А	806	-	53,62,62	0.60	0	65,89,89	0.63	1 (1%)
4	HSC	В	805	-	53,62,62	0.55	0	65,89,89	0.68	1 (1%)
2	SO4	В	803	-	4,4,4	0.36	0	6,6,6	0.11	0
3	GOL	А	805	-	$5,\!5,\!5$	0.62	0	5, 5, 5	0.89	0
5	ZOZ	А	807	-	53,62,62	1.46	7 (13%)	65,89,89	1.56	8 (12%)
2	SO4	А	802	-	4,4,4	0.35	0	6,6,6	0.21	0
3	GOL	А	804	-	$5,\!5,\!5$	0.38	0	5, 5, 5	0.12	0
3	GOL	В	804	-	$5,\!5,\!5$	0.29	0	5, 5, 5	0.16	0
2	SO4	А	801	-	4,4,4	0.33	0	6,6,6	0.24	0
2	SO4	В	801	-	4,4,4	0.33	0	$6,\!6,\!6$	0.14	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	\mathbf{Res}	Link	Chirals	Torsions	Rings
3	GOL	А	805	-	-	4/4/4/4	-
4	HSC	А	806	-	-	14/58/78/78	0/3/3/3
4	HSC	В	805	-	-	16/58/78/78	0/3/3/3
3	GOL	А	804	-	-	2/4/4/4	-
3	GOL	В	804	-	-	4/4/4/4	-
5	ZOZ	А	807	-	-	11/57/78/78	0/3/3/3

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	\mathbf{Res}	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
5	А	807	ZOZ	C2A-N3A	5.68	1.41	1.32
5	А	807	ZOZ	C2A-N1A	3.77	1.40	1.33
5	А	807	ZOZ	P3B-O3B	3.33	1.65	1.59
5	А	807	ZOZ	O4B-C1B	2.61	1.44	1.41



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Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	Ideal(Å)
5	А	807	ZOZ	C4'-C3'	2.52	1.57	1.50

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
5	А	807	ZOZ	N3A-C2A-N1A	-6.85	117.98	128.68
5	А	807	ZOZ	C7P-C6P-C5P	-4.53	104.81	112.36
5	А	807	ZOZ	C6P-C7P-N8P	-3.30	105.23	111.90
5	А	807	ZOZ	O4B-C1B-C2B	-2.92	102.65	106.93
5	А	807	ZOZ	P1A-O3A-P2A	-2.89	122.91	132.83

There are no chirality outliers.

5 of 51 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	806	HSC	C2-C3-C4-C5
4	А	806	HSC	C5B-O5B-P1A-O1A
4	А	806	HSC	C5B-O5B-P1A-O2A
4	А	806	HSC	C3B-O3B-P3B-O9A
4	В	805	HSC	O1-C1-S1P-C2P

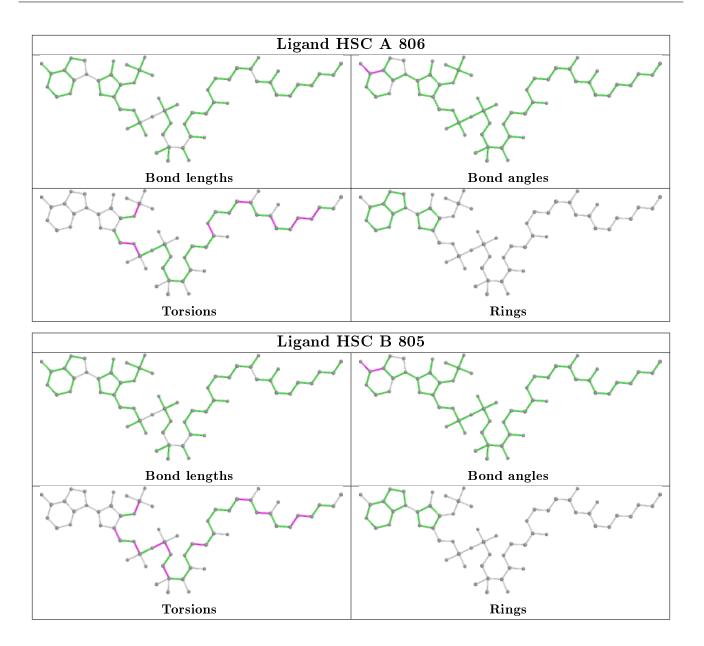
There are no ring outliers.

3 monomers are involved in 6 short contacts:

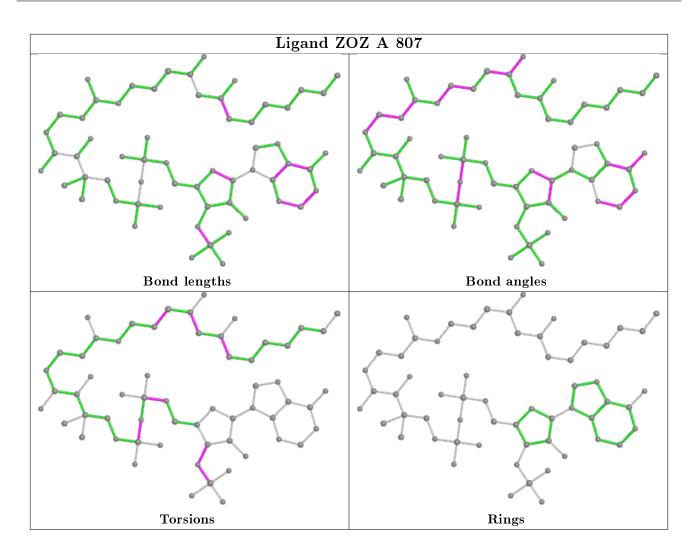
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	А	806	HSC	2	0
4	В	805	HSC	3	0
5	А	807	ZOZ	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



6 Fit of model and data (i)

6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ $>$	$\# RSRZ {>}2$	$OWAB(Å^2)$	Q<0.9
1	А	725/742~(97%)	-0.08	28 (3%) 39 42	22, 41, 87, 157	0
1	В	718/742~(96%)	0.03	37 (5%) 27 29	31, 58, 96, 152	0
All	All	1443/1484~(97%)	-0.02	65 (4%) 33 36	22, 50, 93, 157	0

The worst 5 of 65 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	356	ALA	10.4
1	В	356	ALA	7.8
1	А	357	SER	7.4
1	В	353	ASN	5.7
1	А	354	GLY	4.9

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

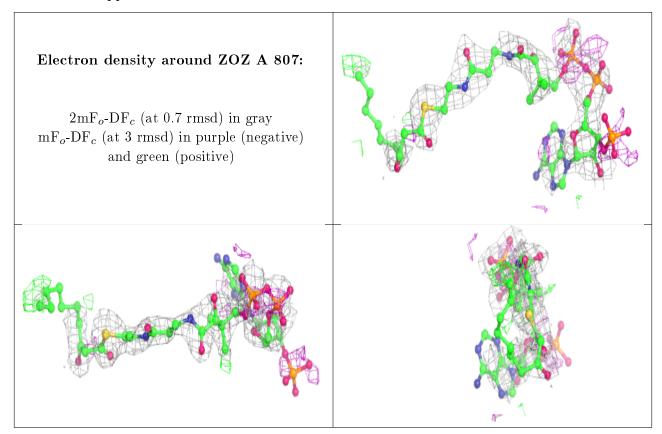
6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

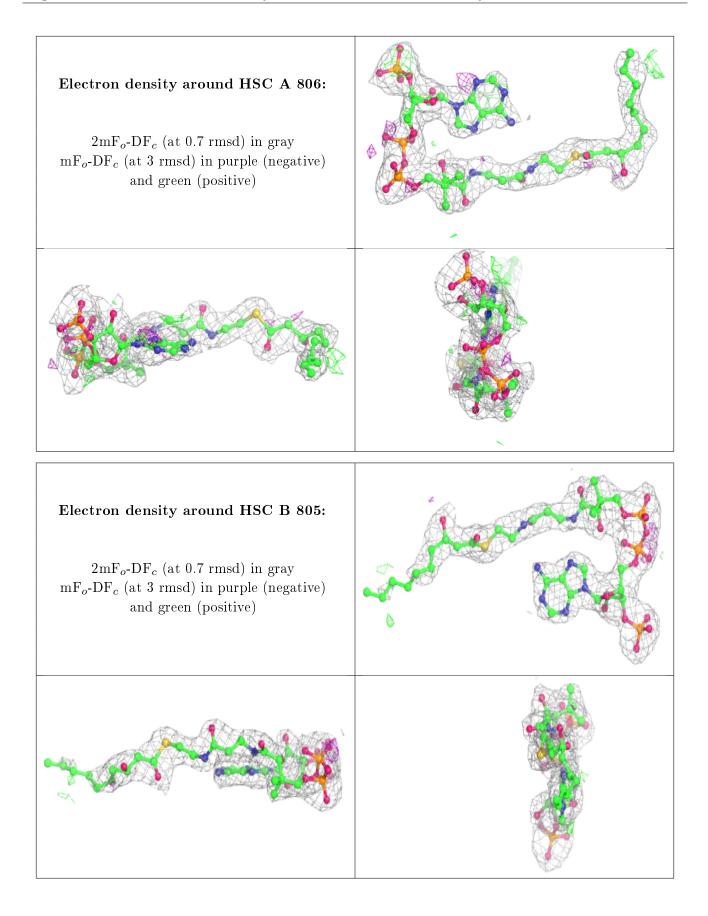


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
5	ZOZ	А	807	60/60	0.66	0.38	$73,\!120,\!164,\!172$	0
3	GOL	А	804	6/6	0.75	0.19	68,70,72,72	0
3	GOL	А	805	6/6	0.78	0.24	52, 58, 58, 59	0
2	SO4	А	802	5/5	0.80	0.35	$104,\!106,\!108,\!112$	0
2	SO4	А	803	5/5	0.81	0.27	$79,\!86,\!90,\!92$	0
2	SO4	В	801	5/5	0.88	0.16	$101,\!101,\!102,\!102$	0
3	GOL	В	804	6/6	0.91	0.18	$65,\!66,\!69,\!70$	0
4	HSC	А	806	60/60	0.91	0.17	$40,\!61,\!86,\!88$	0
2	SO4	В	802	5/5	0.94	0.15	$64,\!64,\!68,\!70$	0
2	SO4	В	803	5/5	0.95	0.13	85,86,91,94	0
4	HSC	В	805	60/60	0.96	0.13	42,52,70,81	0
2	SO4	А	801	5/5	0.98	0.12	$39,\!40,\!44,\!44$	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.









6.5 Other polymers (i)

There are no such residues in this entry.

