

# Full wwPDB X-ray Structure Validation Report (i)

#### May 13, 2020 – 10:11 am BST

PDB ID : 6HSP

Title: Crystal structure of the zebrafish peroxisomal SCP2-thiolase (type-1) in com-

plex with CoA and octanoyl-CoA

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Deposited on : 2018-10-01

Resolution : 1.73 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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:

MolProbity : 4.02b-467

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13 EDS : 2.11

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac: 5.8.0158

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

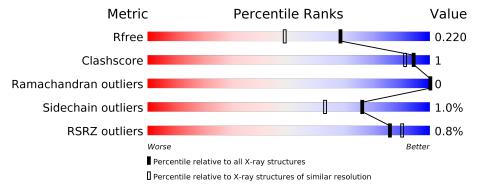
Validation Pipeline (wwPDB-VP) : 2.11

## 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 1.73 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar \; resolution} \\ (\#{\rm Entries, \; resolution \; range(\AA)}) \end{array}$
$R_{free}$	130704	3764 (1.76-1.72)
Clashscore	141614	3923 (1.76-1.72)
Ramachandran outliers	138981	3878 (1.76-1.72)
Sidechain outliers	138945	3878 (1.76-1.72)
RSRZ outliers	127900	3705 (1.76-1.72)

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	A	414	90%		7%
1	В	414	91%	•	6%



# 2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 6233 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.

• Molecule 1 is a protein called SCP2-thiolase (type-1).

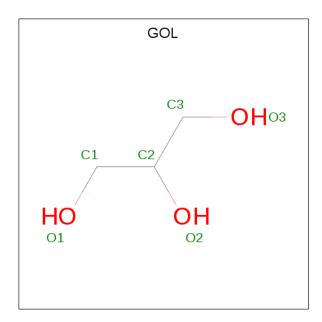
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	383	Total 2914	C 1830	N 504	O 553	S 27	0	3	0
1	В	389	Total 2965	C 1861	N 512	O 564	S 28	0	2	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	MET	-	initiating methionine	UNP Q6P4V5
A	-6	HIS	-	expression tag	UNP Q6P4V5
A	-5	HIS	_	expression tag	UNP Q6P4V5
A	-4	HIS	-	expression tag	UNP Q6P4V5
A	-3	HIS	_	expression tag	UNP Q6P4V5
A	-2	HIS	-	expression tag	UNP Q6P4V5
A	-1	HIS	-	expression tag	UNP Q6P4V5
A	0	ALA	_	expression tag	UNP Q6P4V5
В	-7	MET	-	initiating methionine	UNP Q6P4V5
В	-6	HIS	-	expression tag	UNP Q6P4V5
В	-5	HIS	-	expression tag	UNP Q6P4V5
В	-4	HIS	_	expression tag	UNP Q6P4V5
В	-3	HIS	-	expression tag	UNP Q6P4V5
В	-2	HIS	-	expression tag	UNP Q6P4V5
В	-1	HIS	=	expression tag	UNP Q6P4V5
В	0	ALA	_	expression tag	UNP Q6P4V5

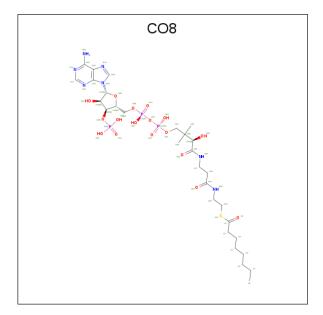
• Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 6 3 3	0	0
2	A	1	Total C O 6 3 3	0	0
2	A	1	Total C O 6 3 3	0	0
2	В	1	Total C O 6 3 3	0	0

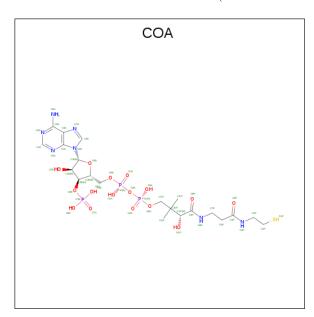
 $\bullet \ \ Molecule\ 3\ is\ OCTANOYL-COENZYME\ A\ (three-letter\ code:\ CO8)\ (formula:\ C_{29}H_{50}N_7O_{17}P_3S).$ 





Mol	Chain	Residues	${f Atoms}$				ZeroOcc	AltConf		
3	В	1	Total 57		N 7	O 17	P 3	S 1	0	1

 $\bullet$  Molecule 4 is COENZYME A (three-letter code: COA) (formula:  $C_{21}H_{36}N_7O_{16}P_3S).$ 



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
4	В	1	Total 48	C 21	N 7	O 16	P 3	S 1	0	1

• Molecule 5 is water.

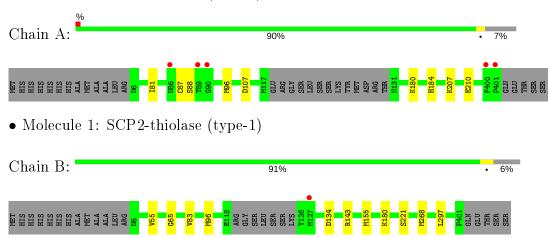
$\mathbf{Mol}$	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
5	A	107	Total O 109 109	0	2
5	В	113	Total O 116 116	0	3



# 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.

• Molecule 1: SCP2-thiolase (type-1)





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	132.18Å 81.32Å 96.63Å	Depositor
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $126.08^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	42.88 - 1.73	Depositor
resolution (11)	42.88 - 1.73	EDS
% Data completeness	99.4 (42.88-1.73)	Depositor
(in resolution range)	99.4 (42.88-1.73)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.09	Depositor
$< I/\sigma(I) > 1$	1.09 (at 1.73Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
$R, R_{free}$	0.190 , 0.227	Depositor
10, 10 free	0.186 , $0.220$	DCC
$R_{free}$ test set	4301  reflections  (5.02%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	24.1	Xtriage
Anisotropy	0.046	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	$0.39 \; ,  55.8$	EDS
L-test for twinning <sup>2</sup>	$ < L > = 0.48, < L^2> = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.96	EDS
Total number of atoms	6233	wwPDB-VP
Average B, all atoms $(Å^2)$	35.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.77% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $< L^2>$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities 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: COA, GOL, CO8

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	Boı	nd lengths	Bond angles		
IVIOI		RMSZ	# Z  > 5	RMSZ	# Z >5	
1	A	0.64	0/2979	0.77	0/4023	
1	В	0.66	1/3028 (0.0%)	0.77	2/4088 (0.0%)	
All	All	0.65	1/6007 (0.0%)	0.77	2/8111 (0.0%)	

#### All (1) bond length outliers are listed below:

$\mathbf{Mol}$	Chain	Res	Type	Atoms	Z	${ m Observed}( m \AA)$	$oxed{Ideal(\AA)}$
1	В	221	SER	CB-OG	5.50	1.49	1.42

#### All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
1	В	143	ARG	NE-CZ-NH1	5.24	122.92	120.30
1	В	134	ASP	CB-CG-OD1	5.21	122.99	118.30

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	$\mathbf{H}(\mathbf{model})$	H(added)	Clashes	Symm-Clashes
1	A	2914	0	2870	3	0
1	В	2965	0	2914	4	0
2	A	18	0	24	0	0

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-	110116	predidus	puyc

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	В	6	0	8	0	0
3	В	57	0	46	0	0
4	В	48	0	32	8	0
5	A	109	0	0	1	0
5	В	116	0	0	1	0
All	All	6233	0	5894	15	0

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.

All (15) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{c}  ext{Interatomic} \  ext{distance } ( ext{Å}) \end{array}$	Clash overlap (Å)
4:B:503[B]:COA:O5P	4:B:503[B]:COA:H21	1.42	1.11
1:B:83:VAL:HG11	1:B:96[B]:MET:SD	2.00	1.01
4:B:503[B]:COA:O5P	4:B:503[B]:COA:C2P	2.22	0.86
4:B:503[B]:COA:P1A	4:B:503[B]:COA:H8A	2.29	0.72
4:B:503[B]:COA:S1P	5:B:664:HOH:O	2.49	0.62
4:B:503[B]:COA:O1A	4:B:503[B]:COA:H8A	2.00	0.61
1:A:207:LYS:NZ	5:A:601:HOH:O	2.36	0.58
1:A:180:LYS:HD3	1:A:184:HIS:CE1	2.45	0.51
1:A:81:ILE:HG21	1:A:96[A]:MET:SD	2.52	0.49
4:B:503[B]:COA:O5B	4:B:503[B]:COA:H8A	2.11	0.49
1:B:155:MET:HE2	1:B:268:MET:SD	2.55	0.47
1:B:155:MET:CE	1:B:268:MET:SD	3.04	0.45
4:B:503[B]:COA:H122	4:B:503[B]:COA:N7A	2.32	0.45
4:B:503[B]:COA:O6A	4:B:503[B]:COA:O1A	2.37	0.42
1:B:55:VAL:HG11	1:B:65:GLY:HA2	2.02	0.41

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	Favoured	Allowed	Outliers	Perce	$\mathbf{ntiles}$
1	A	$382/414 \ (92\%)$	378 (99%)	4 (1%)	0	100	100
1	В	387/414 (94%)	381 (98%)	6 (2%)	0	100	100
All	All	769/828 (93%)	759 (99%)	10 (1%)	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	Rotameric	Outliers	Percentiles		
1	A	306/330 (93%)	302 (99%)	4 (1%)	69 52		
1	В	311/330 (94%)	309 (99%)	2 (1%)	86 79		
All	All	617/660 (94%)	611 (99%)	6 (1%)	76 63		

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	87	CYS
1	A	88	SER
1	A	107	ASP
1	A	210	GLU
1	В	180	LYS
1	В	297	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	Α	384	ASN

#### 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)

6 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).

Mal	Mol Type Chain Res		T in le	Bond lengths			Bond angles			
MIOI	Type	Chain	nes	Link	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	CO8	В	502[A]	-	51,59,59	1.46	6 (11%)	62,85,85	1.62	11 (17%)
4	COA	В	503[B]	-	41,50,50	1.53	6 (14%)	52,75,75	1.44	4 (7%)
2	GOL	В	501	-	5,5,5	0.10	0	5,5,5	0.72	0
2	GOL	A	501	-	5,5,5	0.25	0	5,5,5	0.76	0
2	GOL	A	502	-	5,5,5	0.46	0	5,5,5	0.50	0
2	GOL	A	503	-	5,5,5	0.41	0	5,5,5	0.33	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	Res	Link	Chirals	Torsions	Rings
3	CO8	В	502[A]	-	-	8/54/74/74	0/3/3/3
4	COA	В	503[B]	-	-	7/44/64/64	0/3/3/3
2	GOL	В	501	-	-	2/4/4/4	-
2	GOL	A	501	-	-	0/4/4/4	-
2	GOL	A	502	_	_	0/4/4/4	_
2	GOL	A	503	_	-	2/4/4/4	-

All (12) bond length outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	${ m Observed}({ m \AA})$	$\operatorname{Ideal}( ext{\AA})$
3	В	502[A]	CO8	C2A-N3A	5.52	1.41	1.32
4	В	503[B]	COA	C2A-N3A	4.94	1.40	1.32
3	В	502[A]	CO8	C2'-C1'	3.96	1.54	1.50
4	В	503[B]	COA	P3B-O7A	3.65	1.62	1.50
4	В	503[B]	COA	O4B-C1B	3.26	1.45	1.41
4	В	503[B]	COA	C2A-N1A	3.19	1.39	1.33
3	В	502[A]	CO8	C2A-N1A	2.84	1.39	1.33
4	В	503[B]	COA	C5A-C4A	-2.69	1.33	1.40
3	В	502[A]	CO8	C5A-C4A	-2.64	1.33	1.40
4	В	503[B]	COA	C6A-C5A	-2.60	1.33	1.43
3	В	502[A]	CO8	C6A-C5A	-2.57	1.33	1.43
3	В	502[A]	CO8	P3B-O8A	2.05	1.62	1.54

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
3	В	502[A]	CO8	N3A-C2A-N1A	-6.65	118.29	128.68
4	В	503[B]	COA	N3A-C2A-N1A	-6.52	118.49	128.68
3	В	502[A]	CO8	C7P-C6P-C5P	-4.73	104.47	112.36
4	В	503[B]	COA	P2A-O3A-P1A	-4.34	117.94	132.83
3	В	502[A]	CO8	O6A-CCP-CBP	-3.14	105.50	110.55
3	В	502[A]	CO8	C6P-C7P-N8P	-2.93	105.98	111.90
4	В	503[B]	COA	C7P-C6P-C5P	-2.88	107.57	112.36
3	В	502[A]	CO8	C5A-C6A-N6A	-2.87	115.98	120.35
3	В	502[A]	CO8	O1'-C1'-C2'	-2.80	120.68	123.99
4	В	503[B]	COA	C5A-C6A-N6A	-2.72	116.22	120.35
3	В	502[A]	CO8	P2A-O3A-P1A	-2.68	123.62	132.83
3	В	502[A]	CO8	C2P-C3P-N4P	-2.50	107.16	112.42
3	В	502[A]	CO8	C2'-C1'-S1P	2.34	116.18	113.46
3	В	502[A]	CO8	C3'-C2'-C1'	-2.24	107.36	112.33
3	В	502[A]	CO8	C2P-S1P-C1'	-2.22	94.96	101.87

There are no chirality outliers.

All (19) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	В	502[A]	CO8	S1P-C2P-C3P-N4P
3	В	502[A]	CO8	O1'-C1'-S1P-C2P
3	В	502[A]	CO8	C2'-C1'-S1P-C2P
4	В	503[B]	COA	CCP-O6A-P2A-O4A
4	В	503[B]	COA	C2P-C3P-N4P-C5P
2	A	503	GOL	O1-C1-C2-C3

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Mol	Chain	Res	Type	Atoms
2	A	503	GOL	O1-C1-C2-O2
4	В	503[B]	COA	S1P-C2P-C3P-N4P
4	В	503[B]	COA	P1A-O3A-P2A-O6A
4	В	503[B]	COA	C5B-O5B-P1A-O3A
2	В	501	GOL	O2-C2-C3-O3
2	В	501	GOL	C1-C2-C3-O3
4	В	503[B]	COA	CCP-O6A-P2A-O5A
3	В	502[A]	CO8	P1A-O3A-P2A-O4A
3	В	502[A]	CO8	P1A-O3A-P2A-O5A
3	В	502[A]	CO8	C3P-C2P-S1P-C1'
3	В	502[A]	CO8	C3B-O3B-P3B-O7A
3	В	502[A]	CO8	CCP-O6A-P2A-O3A
4	В	503[B]	COA	CCP-O6A-P2A-O3A

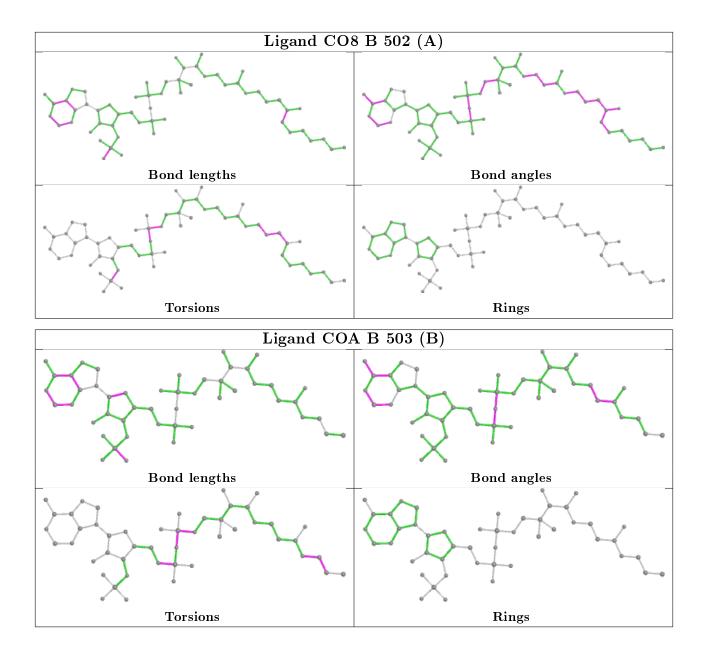
There are no ring outliers.

1 monomer is involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	В	503[B]	COA	8	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,  $95^{th}$  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 $>$	$\#\mathrm{RSRZ}{>}2$		$OWAB(A^2)$	Q < 0.9
1	A	383/414 (92%)	-0.14	5 (1%)	77 82	26, 33, 50, 75	0
1	В	389/414 (93%)	-0.12	1 (0%)	94 95	25, 31, 45, 71	0
All	All	772/828 (93%)	-0.13	6 (0%)	86 90	25, 32, 48, 75	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	A	401	PRO	5.6	
1	A	90	GLY	4.8	
1	A	86	ASN	3.8	
1	A	89	THR	3.5	
1	В	127	MET	2.5	
1	A	400	PHE	2.3	

## 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.

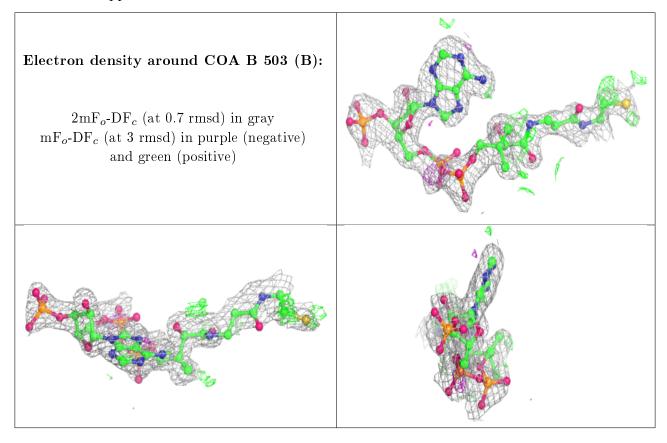
## 6.4 Ligands (i)

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.

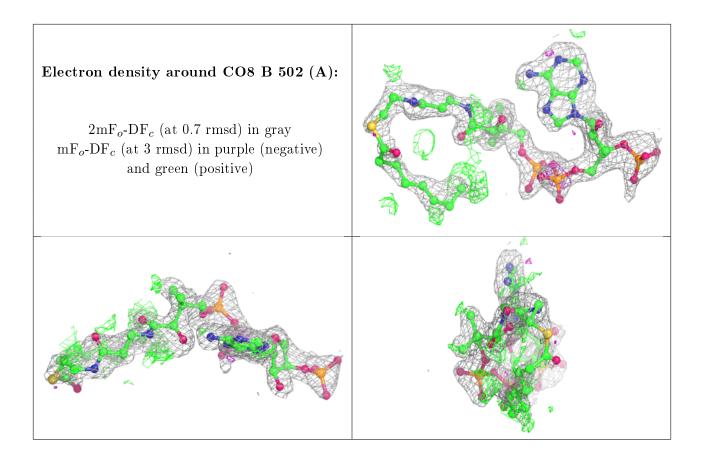


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	GOL	A	502	6/6	0.71	0.16	50,57,61,69	0
2	GOL	A	503	6/6	0.73	0.19	45,53,56,56	0
4	COA	В	503[B]	48/48	0.76	0.21	63,141,154,155	48
3	CO8	В	502[A]	57/57	0.79	0.19	39,53,72,76	57
2	GOL	В	501	6/6	0.88	0.11	50,51,55,55	0
2	GOL	A	501	6/6	0.88	0.10	37,45,46,47	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.

