

wwPDB X-ray Structure Validation Summary Report (i)

Sep 11, 2023 – 11:04 PM EDT

PDB ID : 4MW0

Title: Trypanosoma brucei methionyl-tRNA synthetase in complex with inhibitor 1-

{3-[(3,5-dichlorobenzyl)amino]propyl}-3-(2-hydroxyphenyl)urea (Chem 1392)

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Deposited on : 2013-09-24

Resolution : 2.20 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (i)) 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 : 2.35.1

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)

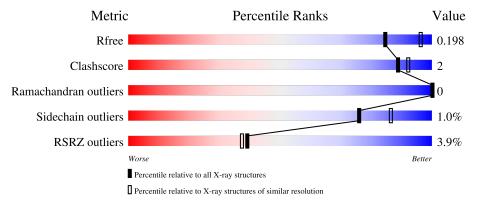
Validation Pipeline (wwPDB-VP) : 2.35.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY\ DIFFRACTION$

The reported resolution of this entry is 2.20 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	Whole archive	Similar resolution
Metric	$(\# ext{Entries})$	$(\# ext{Entries}, ext{ resolution range}(ext{Å}))$
R_{free}	130704	4898 (2.20-2.20)
Clashscore	141614	5594 (2.20-2.20)
Ramachandran outliers	138981	5503 (2.20-2.20)
Sidechain outliers	138945	5504 (2.20-2.20)
RSRZ outliers	127900	4800 (2.20-2.20)

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 of 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	542	94%					
1	В	542	92%	6% •				

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:



Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	CAS	В	470	-	-	X	-



2 Entry composition (i)

There are 6 unique types of molecules in this entry. The entry contains 9278 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 Methionyl-tRNA synthetase.

Mol	Chain	Residues		\mathbf{Atoms}				ZeroOcc	AltConf	Trace	
1	A	531	Total 4262	As 1	C 2745	N 722	O 783	S 11	0	3	0
1	В	534	Total 4279	As 1	C 2756	N 723	O 787	S 12	0	2	0

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-4	GLY	-	expression tag	UNP Q38C91
A	-3	PRO	-	expression tag	UNP Q38C91
A	-2	GLY	-	expression tag	UNP Q38C91
A	-1	SER	-	expression tag	UNP Q38C91
A	0	MET	-	expression tag	UNP Q38C91
A	309	THR	ALA	$\operatorname{conflict}$	UNP Q38C91
A	452	ALA	LYS	engineered mutation	UNP Q38C91
A	453	ARG	LYS	engineered mutation	UNP Q38C91
A	454	ALA	GLU	engineered mutation	UNP Q38C91
A	499	VAL	ALA	$\operatorname{conflict}$	UNP Q38C91
A	503	ASN	SER	$\operatorname{conflict}$	UNP Q38C91
В	-4	GLY	-	expression tag	UNP Q38C91
В	-3	PRO	-	expression tag	UNP Q38C91
В	-2	GLY	-	expression tag	UNP Q38C91
В	-1	SER	-	expression tag	UNP Q38C91
В	0	MET	-	expression tag	UNP Q38C91
В	309	THR	ALA	$\operatorname{conflict}$	UNP Q38C91
В	452	ALA	LYS	engineered mutation	UNP Q38C91
В	453	ARG	LYS	engineered mutation	UNP Q38C91
В	454	ALA	GLU	engineered mutation	UNP Q38C91
В	499	VAL	ALA	conflict	UNP Q38C91
В	503	ASN	SER	conflict	UNP Q38C91

• Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).

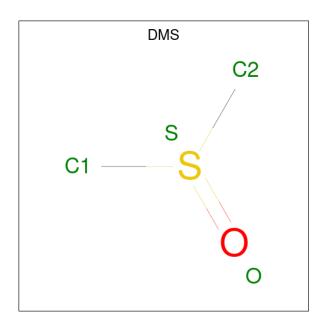




Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C O 6 3 3	0	0
2	A	1	Total C O 6 3 3	0	0
2	В	1	Total C O 6 3 3	0	0
2	В	1	Total C O 6 3 3	0	0
2	В	1	Total C O 6 3 3	0	0
2	В	1	Total C O 6 3 3	0	0
2	В	1	Total C O 6 3 3	0	0
2	В	1	Total C O 6 3 3	0	0

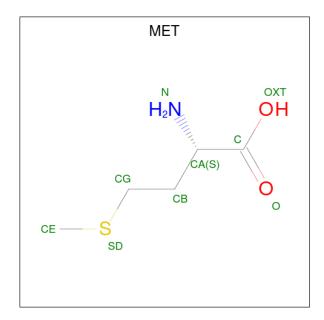
 \bullet Molecule 3 is DIMETHYL SULFOXIDE (three-letter code: DMS) (formula: C₂H₆OS).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O S 4 2 1 1	0	0
3	В	1	Total C O S 4 2 1 1	0	0

 \bullet Molecule 4 is METHIONINE (three-letter code: MET) (formula: $\mathrm{C_5H_{11}NO_2S}).$

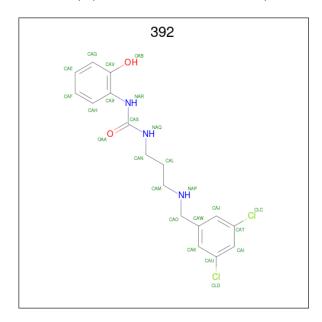


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
4	Λ	1	Total	С	N	О	S	0	0
4	A	1	9	5	1	2	1	0	U

 $\bullet \ \ Molecule \ 5 \ is \ 1-\{3-[(3,5-dichlorobenzyl)amino] propyl\}-3-(2-hydroxyphenyl) urea \ (three-letter all of the content of the conte$



code: 392) (formula: $C_{17}H_{19}Cl_2N_3O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
5	В	1	Total		Cl 2	N 3	0	0	0

• Molecule 6 is water.

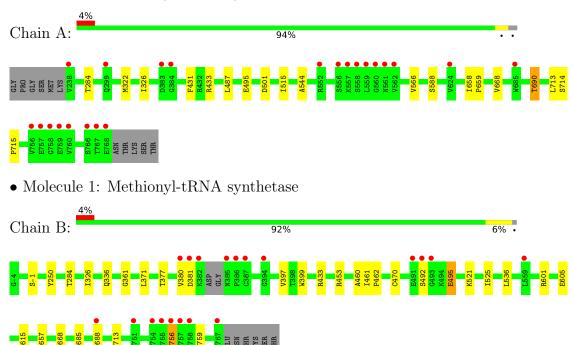
ľ	Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
	6	A	301	Total O 301 301	0	0
	6	В	347	Total O 347 347	0	0



3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide 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: Methionyl-tRNA synthetase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	88.67Å 105.88Å 206.48Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 - 2.20	Depositor
Resolution (A)	48.37 - 2.20	EDS
% Data completeness	99.6 (30.00-2.20)	Depositor
(in resolution range)	99.6 (48.37-2.20)	EDS
R_{merge}	0.11	Depositor
R_{sym}	0.11	Depositor
$< I/\sigma(I) > 1$	2.48 (at 2.20Å)	Xtriage
Refinement program	REFMAC refmac_5.7.0032	Depositor
P. P.	0.184 , 0.205	Depositor
R, R_{free}	0.179 , 0.198	DCC
R_{free} test set	4948 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	32.5	Xtriage
Anisotropy	0.420	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 33.0	EDS
L-test for twinning ²	$ < L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	9278	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.08% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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, CAS, DMS, 392

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	Bond angles		
IVIOI		RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.37	0/4372	0.58	1/5942~(0.0%)	
1	В	0.38	0/4386	0.60	1/5958 (0.0%)	
All	All	0.38	0/8758	0.59	2/11900 (0.0%)	

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	В	433	ARG	NE-CZ-NH2	-5.61	117.49	120.30
1	A	433	ARG	NE-CZ-NH2	-5.50	117.55	120.30

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	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4262	0	4213	12	0
1	В	4279	0	4237	19	0
2	A	12	0	16	0	0
2	В	36	0	48	2	0
3	A	4	0	6	0	0
3	В	4	0	6	0	0
4	A	9	0	8	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	В	24	0	18	1	0
6	A	301	0	0	1	0
6	В	347	0	0	0	0
All	All	9278	0	8552	32	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 2.

The worst 5 of 32 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$\begin{array}{c} \text{Clash} \\ \text{overlap } (\text{\AA}) \end{array}$
1:B:461:ILE:C	1:B:470:CAS:CE2	2.25	1.05
1:A:322:MET:HE3	1:A:566:VAL:HG22	1.63	0.78
1:B:461:ILE:O	1:B:470:CAS:CE2	2.32	0.77
1:A:487:LEU:HD22	1:A:495:GLU:HG3	1.67	0.75
1:B:460:ALA:C	1:B:470:CAS:CE2	2.69	0.61

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	${ m ntiles}$
1	A	531/542~(98%)	521 (98%)	10 (2%)	0	100	100
1	В	531/542~(98%)	522 (98%)	9 (2%)	0	100	100
All	All	$1062/1084\ (98\%)$	1043 (98%)	19 (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	Rotameric	Outliers	Percentiles		
1	A	458/468 (98%)	456 (100%)	2 (0%)	91 96		
1	В	461/468 (98%)	454 (98%)	7 (2%)	65 78		
All	All	919/936 (98%)	910 (99%)	9 (1%)	76 86		

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	615	MET
1	В	756	VAL
1	В	377	THR
1	В	492	SER
1	В	495	GLU

Sometimes 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)

2 non-standard protein/DNA/RNA residues 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	Т	Chain	Res	Link	В	Bond lengths			Bond angles		
Moi Type	Type				Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
1	CAS	В	470	1	5,8,9	1.24	0	1,9,11	0.36	0	
1	CAS	A	470	1	5,8,9	0.91	0	1,9,11	0.05	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.

I	Mol	\mathbf{Type}	Chain	Res	Link	Chirals	Torsions	Rings
	1	CAS	В	470	1	-	0/0/7/9	-
	1	CAS	A	470	1	-	0/0/7/9	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	В	470	CAS	7	0

5.5 Carbohydrates (i)

There are no monosaccharides 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).



Mal	Trino	Chain	Dag	Link	Bo	ond leng	ths	В	ond ang	les
Mol	Type	Chain	Res	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	GOL	В	801	-	5,5,5	0.40	0	5,5,5	0.36	0
3	DMS	A	903	-	3,3,3	0.56	0	3,3,3	0.45	0
4	MET	A	904	-	7,8,8	1.08	1 (14%)	7,9,9	1.01	0
2	GOL	В	804	-	5,5,5	0.29	0	5,5,5	0.47	0
5	392	В	808	-	25,25,25	0.33	0	32,32,32	0.62	0
2	GOL	A	902	-	5,5,5	0.30	0	5,5,5	0.46	0
3	DMS	В	807	-	3,3,3	0.51	0	3,3,3	0.59	0
2	GOL	В	805	-	5,5,5	0.28	0	5,5,5	0.15	0
2	GOL	В	802	-	5,5,5	0.23	0	5,5,5	0.58	0
2	GOL	В	806	-	5,5,5	0.32	0	5,5,5	0.48	0
2	GOL	A	901	-	5,5,5	0.34	0	5,5,5	0.35	0
2	GOL	В	803	-	5,5,5	0.17	0	5,5,5	0.35	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
2	GOL	В	801	-	-	4/4/4/4	-
4	MET	A	904	-	-	0/8/8/8	-
2	GOL	В	804	-	-	1/4/4/4	-
5	392	В	808	-	-	2/13/13/13	0/2/2/2
2	GOL	A	902	-	-	0/4/4/4	-
2	GOL	В	805	-	-	2/4/4/4	-
2	GOL	В	802	-	-	0/4/4/4	-
2	GOL	В	806	-	-	2/4/4/4	-
2	GOL	A	901	_	_	4/4/4/4	_
2	GOL	В	803	_	_	4/4/4/4	_

All (1) bond length outliers are listed below:

Mo	ol Cha	ain R	Res	Type	Atoms	${f Z}$	$\operatorname{Observed}(\textup{\AA})$	$\operatorname{Ideal}(ext{\AA})$
4	A	. 9	904	MET	OXT-C	-2.58	1.22	1.30

There are no bond angle outliers.

There are no chirality outliers.

5 of 19 torsion outliers are listed below:



Mol	Chain	Res	Type	Atoms
2	A	901	GOL	O1-C1-C2-C3
2	В	801	GOL	O1-C1-C2-C3
2	В	801	GOL	C1-C2-C3-O3
2	В	806	GOL	O1-C1-C2-C3
5	В	808	392	CAV-CAX-NAR-CAS

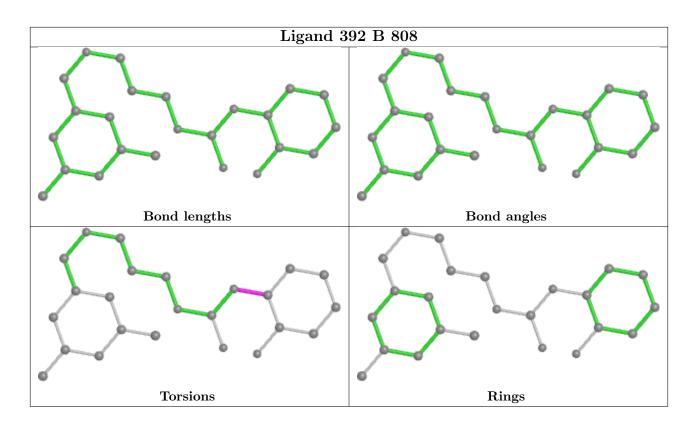
There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	801	GOL	1	0
5	В	808	392	1	0
2	В	802	GOL	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, 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 $>$	# RSRZ > 2	$OWAB(Å^2)$	Q<0.9
1	A	530/542 (97%)	-0.41	22 (4%) 36 34	22, 33, 66, 105	0
1	В	533/542 (98%)	-0.38	19 (3%) 42 41	22, 32, 67, 105	0
All	All	1063/1084 (98%)	-0.40	41 (3%) 39 37	22, 33, 67, 105	0

The worst 5 of 41 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	768	GLU	5.4
1	В	382	LYS	5.3
1	В	386	PRO	4.9
1	В	755	ALA	4.8
1	В	380	VAL	4.8

6.2 Non-standard residues in protein, DNA, RNA chains (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
1	CAS	В	470	9/10	0.97	0.10	27,29,37,38	3
1	CAS	A	470	9/10	0.98	0.08	26,29,35,35	3

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.



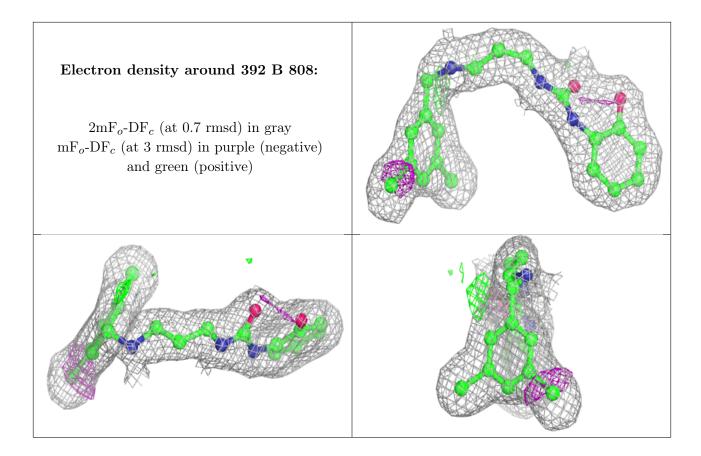
6.4 Ligands (i)

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	В	805	6/6	0.80	0.21	65,67,68,69	0
2	GOL	В	803	6/6	0.81	0.21	48,52,54,55	0
3	DMS	В	807	4/4	0.83	0.13	83,86,88,90	0
3	DMS	A	903	4/4	0.84	0.17	87,88,90,91	0
2	GOL	A	902	6/6	0.85	0.22	50,59,61,62	0
2	GOL	В	802	6/6	0.85	0.22	51,52,54,55	0
2	GOL	A	901	6/6	0.86	0.16	55,57,59,60	0
2	GOL	В	801	6/6	0.88	0.17	46,58,61,61	0
2	GOL	В	806	6/6	0.90	0.34	67,69,71,76	0
2	GOL	В	804	6/6	0.92	0.15	43,48,51,55	0
5	392	В	808	24/24	0.96	0.10	25,30,38,45	0
4	MET	A	904	9/9	0.98	0.10	24,25,26,28	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.

