

wwPDB X-ray Structure Validation Summary Report (i)

May 11, 2021 – 09:18 am BST

PDB ID : 6ZOF

Title: Fusidic acid binding to the TM7/TM8 groove of AcrB-F380A T protomer

Authors: Tam, H.K.; Foong, W.E.; Pos, K.M.

Deposited on : 2020-07-07

Resolution : 3.30 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:

MolProbity : 4.02b-467

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

Xtriage (Phenix) : 1.13

EDS : 2.18

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)

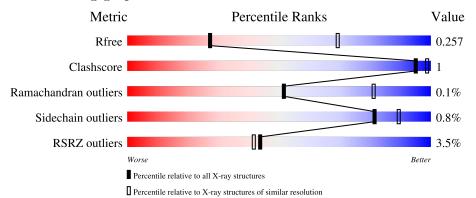
Validation Pipeline (wwPDB-VP) : 2.18

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 3.30 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	$(\# { m Entries})$	$(\# ext{Entries}, ext{resolution range}(ext{Å}))$
R_{free}	130704	1149 (3.34-3.26)
Clashscore	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)
RSRZ outliers	127900	1115 (3.34-3.26)

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	
			2%	
1	A	1057	95%	
	_		3%	
1	В	1057	93%	• •
			2%	
1	С	1057	95%	• •
	_		5%	
2	D	169	92%	8%
	_		20%	
2	Е	169	91%	9%



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
10	PTY	С	1101	_	=	_	X



2 Entry composition (i)

There are 11 unique types of molecules in this entry. The entry contains 26308 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 Multidrug efflux pump subunit AcrB.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace
1	Λ	1042	Total	С	N	О	S	0	0	0
1	A	1042	7921	5091	1311	1475	44	U	U	
1	В	1034	Total	С	N	О	S	0	0	0
1	Б	1034	7849	5049	1296	1460	44	U		
1	C	1035	Total	С	N	О	S	0	0	0
1		1039	7860	5055	1300	1461	44	U		

There are 27 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	380	ALA	PHE	engineered mutation	UNP P31224
A	1050	LEU	-	expression tag	UNP P31224
A	1051	GLU	-	expression tag	UNP P31224
A	1052	HIS	-	expression tag	UNP P31224
A	1053	HIS	-	expression tag	UNP P31224
A	1054	HIS	_	expression tag	UNP P31224
A	1055	HIS	-	expression tag	UNP P31224
A	1056	HIS	-	expression tag	UNP P31224
A	1057	HIS	-	expression tag	UNP P31224
В	380	ALA	PHE	engineered mutation	UNP P31224
В	1050	LEU	_	expression tag	UNP P31224
В	1051	GLU	-	expression tag	UNP P31224
В	1052	HIS	-	expression tag	UNP P31224
В	1053	HIS	_	expression tag	UNP P31224
В	1054	HIS	-	expression tag	UNP P31224
В	1055	HIS	-	expression tag	UNP P31224
В	1056	HIS	-	expression tag	UNP P31224
В	1057	HIS	_	expression tag	UNP P31224
С	380	ALA	PHE	engineered mutation	UNP P31224
С	1050	LEU	-	expression tag	UNP P31224
С	1051	GLU		expression tag	UNP P31224
С	1052	HIS	=	expression tag	UNP P31224
С	1053	HIS	_	expression tag	UNP P31224

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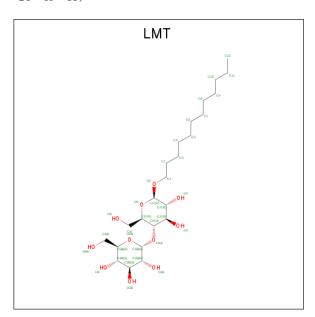
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Chain	Residue	Modelled	Actual	Comment	Reference
С	1054	HIS	_	expression tag	UNP P31224
С	1055	HIS	-	expression tag	UNP P31224
С	1056	HIS	_	expression tag	UNP P31224
С	1057	HIS	-	expression tag	UNP P31224

• Molecule 2 is a protein called DARPIN.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace	
2	D	155	Total 1173			S 1	0	0	0
2	E	154	Total 1167		N	S 1	0	0	0

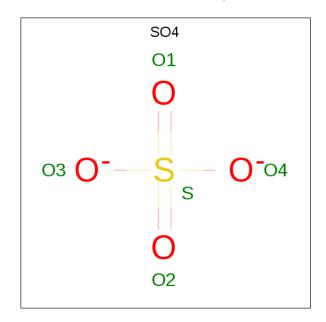
 \bullet Molecule 3 is DODECYL-BETA-D-MALTOSIDE (three-letter code: LMT) (formula: $C_{24}H_{46}O_{11}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O	0	0
		-	35 24 11	Ů	
3	A	1	Total C O	0	0
3	Λ	1	35 24 11		U
3	В	1	Total C O	0	0
) J	Б	1	35 24 11	0	
3	В	1	Total C O	0	0
3	D	1	35 24 11	U	0
9	C	1	Total C O	0	0
3	C	1	35 24 11	U	

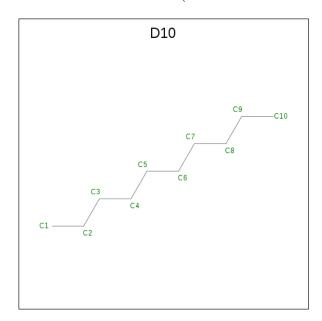


 \bullet Molecule 4 is SULFATE ION (three-letter code: SO4) (formula: $\mathrm{O_4S}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total O S 5 4 1	0	0
4	С	1	Total O S 5 4 1	0	0

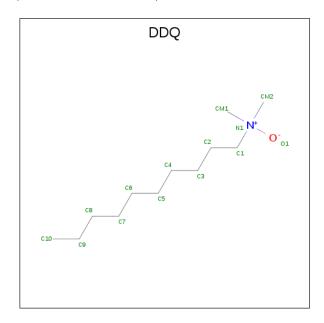
 \bullet Molecule 5 is DECANE (three-letter code: D10) (formula: $\mathrm{C_{10}H_{22}}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	1	Total C 10 10	0	0

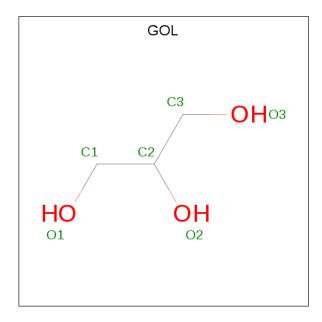


• Molecule 6 is DECYLAMINE-N, N-DIMETHYL-N-OXIDE (three-letter code: DDQ) (formula: $C_{12}H_{27}NO$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	В	1	Total	С	N	О	0	0
		_	14	12	1	1		

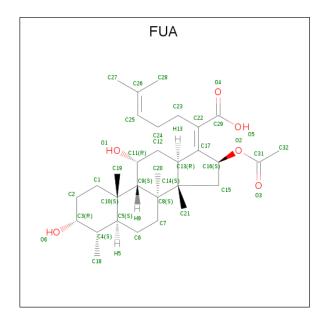
 \bullet Molecule 7 is GLYCEROL (three-letter code: GOL) (formula: $\mathrm{C_3H_8O_3}).$



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

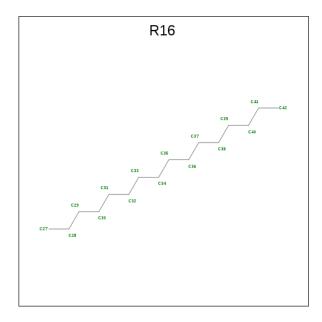


• Molecule 8 is FUSIDIC ACID (three-letter code: FUA) (formula: $C_{31}H_{48}O_6$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	
8	В	1	Total 37	C 31	O 6	0	0

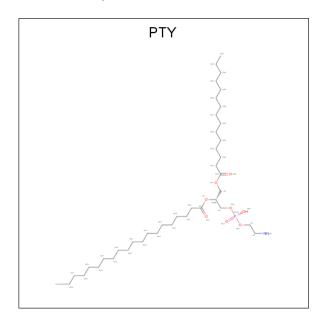
 \bullet Molecule 9 is HEXADECANE (three-letter code: R16) (formula: $\mathrm{C}_{16}\mathrm{H}_{34}).$



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	В	1	Total C 16 16	0	0



• Molecule 10 is PHOSPHATIDYLETHANOLAMINE (three-letter code: PTY) (formula: $C_{40}H_{80}NO_8P$).



Mol	Chain	Residues	${f Atoms}$			ZeroOcc	AltConf		
10	С	1	Total	С	Ν	О	Р	0	0
10		1	50	40	1	8	1	U	0

• Molecule 11 is water.

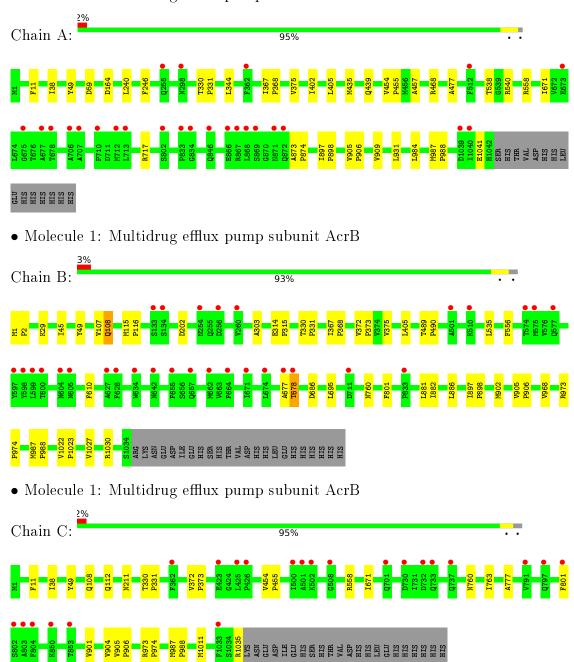
Mol	Chain	Residues	${f Atoms}$	ZeroOcc	AltConf
11	A	5	Total O 5 5	0	0
11	В	9	Total O 9 9	0	0
11	С	6	Total O 6 6	0	0



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: Multidrug efflux pump subunit AcrB









4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	145.10Å 162.33Å 244.85Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.65 - 3.30	Depositor
resolution (A)	49.65 - 3.30	EDS
% Data completeness	100.0 (49.65-3.30)	Depositor
(in resolution range)	100.0 (49.65-3.30)	EDS
R_{merge}	0.42	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.60 (at 3.33Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
P. P.	0.236 , 0.258	Depositor
R, R_{free}	0.237 , 0.257	DCC
R_{free} test set	4369 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	52.8	Xtriage
Anisotropy	0.812	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.30 , 41.5	EDS
L-test for twinning ²	$ < L > = 0.46, < L^2> = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	26308	wwPDB-VP
Average B, all atoms (Å ²)	61.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 2.12% 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: D10, GOL, FUA, PTY, DDQ, LMT, R16, SO4

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
MIOI	Chain	RMSZ	# Z >5	RMSZ	# Z > 5
1	A	0.67	0/8071	0.70	0/10959
1	В	0.67	0/7998	0.70	0/10862
1	С	0.67	0/8009	0.70	0/10876
2	D	0.68	0/1192	0.71	0/1621
2	Е	0.68	0/1186	0.71	0/1613
All	All	0.67	0/26456	0.70	0/35931

There are no bond length outliers.

There are no bond angle outliers.

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	7921	0	8068	18	0
1	В	7849	0	8002	26	0
1	С	7860	0	8015	15	0
2	D	1173	0	1156	0	0
2	E	1167	0	1151	0	0
3	A	70	0	92	0	0
3	В	70	0	92	0	0
3	С	35	0	46	0	0

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I'antinuad	t_{mom}	mromanne	naaa
Continued		DICUIUU	Du/uc
	J	1	I J

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	5	0	0	0	0
4	С	5	0	0	0	0
5	В	10	0	22	1	0
6	В	14	0	27	0	0
7	В	6	0	8	2	0
8	В	37	0	47	7	0
9	В	16	0	34	1	0
10	С	50	0	79	1	0
11	A	5	0	0	0	0
11	В	9	0	0	0	0
11	С	6	0	0	0	0
All	All	26308	0	26839	65	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.

The worst 5 of 65 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{array}{l} ext{Interatomic} \ ext{distance} \ (ext{Å}) \end{array}$	$egin{array}{c} ext{Clash} \ ext{overlap } (ext{Å}) \end{array}$
1:B:968:VAL:HG11	1:B:1023:PRO:HG3	1.65	0.77
1:C:38:ILE:HD11	1:C:671:ILE:HD12	1.72	0.72
8:B:1104:FUA:H232	8:B:1104:FUA:H122	1.73	0.70
8:B:1104:FUA:H202	8:B:1104:FUA:H5	1.76	0.67
9:B:1105:R16:H382	9:B:1105:R16:H341	1.80	0.64

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	Percentiles	
1	A	1040/1057 (98%)	994 (96%)	45 (4%)	1 (0%)	51 81	

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	$_{ m ntiles}$
1	В	$1032/1057 \; (98\%)$	996 (96%)	35 (3%)	1 (0%)	51	81
1	С	1033/1057 (98%)	989 (96%)	43 (4%)	1 (0%)	51	81
2	D	153/169 (90%)	147 (96%)	6 (4%)	0	100	100
2	E	152/169~(90%)	143 (94%)	9 (6%)	0	100	100
All	All	3410/3509 (97%)	3269 (96%)	138 (4%)	3 (0%)	51	81

All (3) Ramachandran outliers are listed below:

Mol	Chain	${f Res}$	Type
1	A	538	THR
1	В	678	THR
1	С	777	ALA

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	847/862 (98%)	839 (99%)	8 (1%)	78	87	
1	В	839/862 (97%)	831 (99%)	8 (1%)	76	86	
1	С	840/862 (97%)	835 (99%)	5 (1%)	86	91	
2	D	120/132 (91%)	120 (100%)	0	100	100	
2	E	$119/132 \ (90\%)$	119 (100%)	0	100	100	
All	All	$2765/2850 \ (97\%)$	2744 (99%)	21 (1%)	81	89	

5 of 21 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	881	LEU
1	С	49	TYR
1	С	1011	MET
1	С	558	ARG
1	С	11	PHE



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)

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

13 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	Trno	Chain	Res	Link	Во	nd leng	ths	В	ond ang	les
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	$\mid \# Z > 2 \mid$
5	D10	В	1101	_	9,9,9	0.10	0	8,8,8	0.08	0
3	LMT	A	1101	-	36,36,36	0.47	0	47,47,47	0.63	0
4	SO4	A	1103	_	4,4,4	0.39	0	6,6,6	0.05	0
4	SO4	С	1103	_	4,4,4	0.38	0	6,6,6	0.05	0
10	PTY	С	1101	-	49,49,49	0.25	0	52,54,54	0.39	0
3	LMT	A	1102	_	36,36,36	0.43	0	47,47,47	0.47	0
3	LMT	В	1107	-	36,36,36	0.47	0	47,47,47	0.60	0
3	LMT	С	1102	_	36,36,36	0.42	0	47,47,47	0.55	0
8	FUA	В	1104	-	36,40,40	0.51	0	46,64,64	0.81	1 (2%)
9	R16	В	1105	-	15,15,15	0.10	0	14,14,14	0.14	0
7	GOL	В	1103	-	5,5,5	0.10	0	5,5,5	0.43	0
6	DDQ	В	1102	-	10,13,13	0.15	0	12,15,15	0.28	0
3	LMT	В	1106	_	36,36,36	0.42	0	47,47,47	0.49	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
5	D10	В	1101	-	-	1/7/7/7	-
3	LMT	A	1101	_	-	12/21/61/61	0/2/2/2
10	PTY	С	1101	-	-	23/53/53/53	-
3	LMT	A	1102	-	-	9/21/61/61	0/2/2/2
3	LMT	В	1107	-	-	12/21/61/61	0/2/2/2
3	LMT	С	1102	-	-	8/21/61/61	0/2/2/2
8	FUA	В	1104	-	-	6/11/92/92	0/4/4/4
9	R16	В	1105	-	-	6/13/13/13	-
7	GOL	В	1103	-	-	4/4/4/4	-
6	DDQ	В	1102	-	-	4/11/11/11	-
3	LMT	В	1106	-	-	10/21/61/61	0/2/2/2

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms			$Ideal(^{o})$
8	В	1104	FUA	C14-C8-C9	-2.39	104.72	109.40

There are no chirality outliers.

5 of 95 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1101	LMT	C2'-C1'-O1'-C1
3	A	1101	LMT	O5'-C1'-O1'-C1
3	В	1106	LMT	C2-C1-O1'-C1'
3	В	1107	LMT	C2-C1-O1'-C1'
3	С	1102	LMT	C2-C1-O1'-C1'

There are no ring outliers.

5 monomers are involved in 12 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	В	1101	D10	1	0
10	С	1101	PTY	1	0
8	В	1104	FUA	7	0

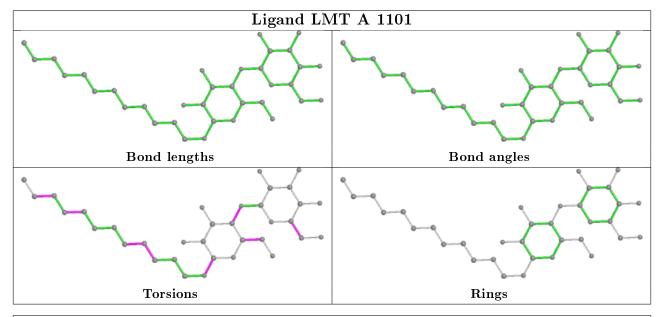
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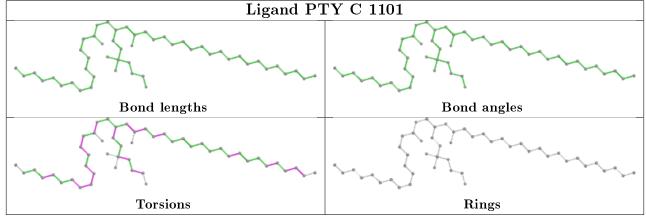


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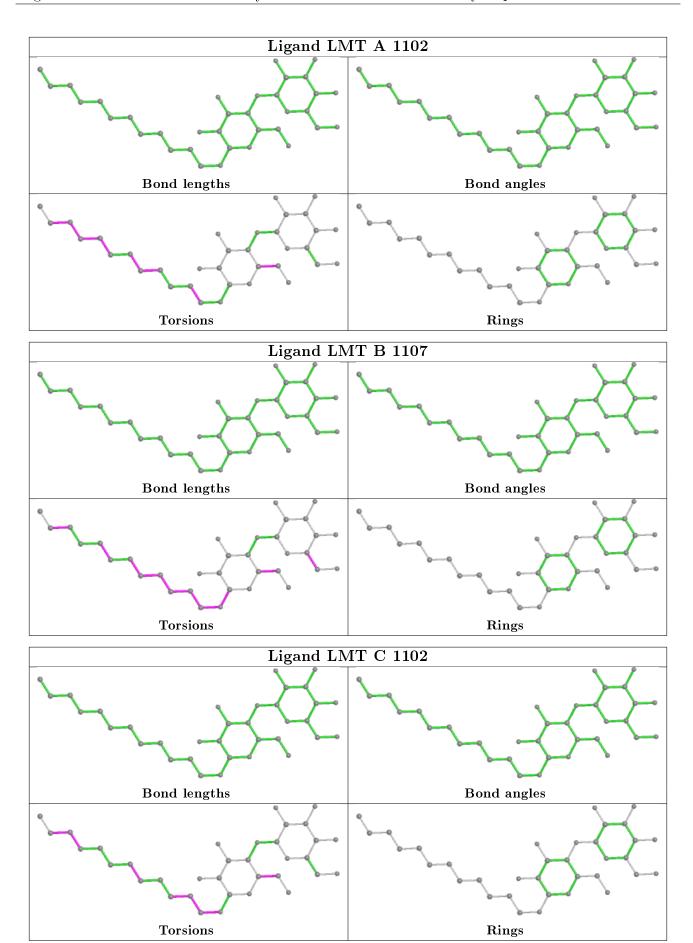
Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	В	1105	R16	1	0
7	В	1103	GOL	2	0

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.

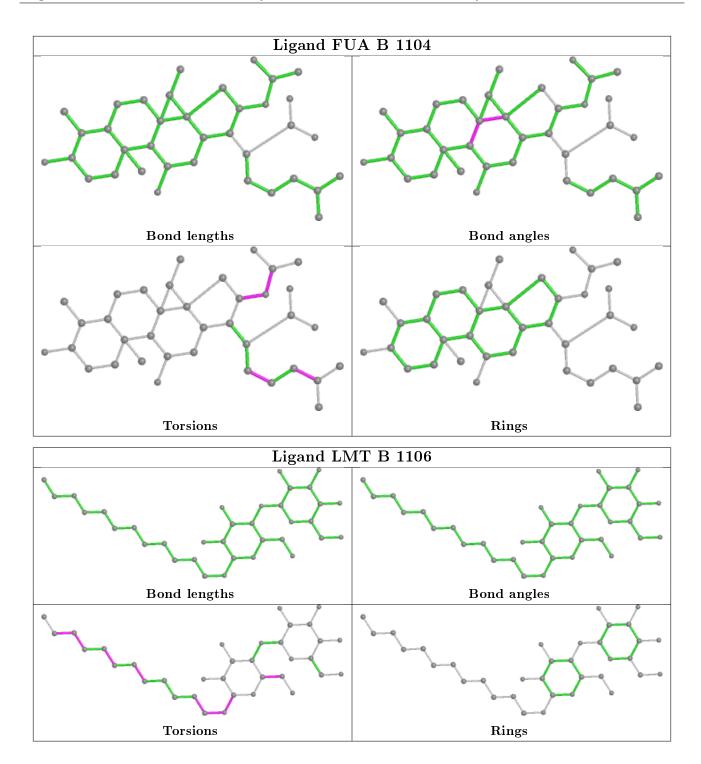












5.7 Other polymers (i)

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 $>$	$\#\mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	1042/1057~(98%)	0.10	25 (2%) 59 56	33, 61, 96, 131	0
1	В	$1034/1057 \ (97\%)$	0.06	30 (2%) 51 50	35, 59, 86, 110	0
1	С	1035/1057~(97%)	-0.02	22 (2%) 63 62	40, 52, 73, 97	0
2	D	155/169 (91%)	0.43	8 (5%) 27 25	49, 62, 77, 86	0
2	E	154/169 (91%)	1.23	34 (22%) 0 1	57, 71, 91, 101	0
All	All	3420/3509 (97%)	0.12	119 (3%) 44 42	33, 58, 87, 131	0

The worst 5 of 119 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	678	THR	4.4
2	D	141	ALA	4.1
2	E	139	VAL	4.0
2	E	66	LEU	3.8
2	Е	69	ASN	3.6

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 monosaccharides in this entry.

6.4 Ligands (i)

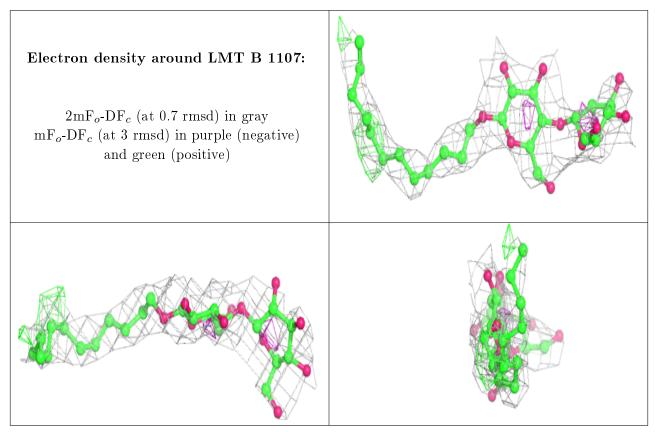
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,



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	${f B-factors(\AA^2)}$	Q<0.9
3	LMT	В	1107	35/35	0.73	0.38	92,115,122,124	0
9	R16	В	1105	16/16	0.78	0.29	58,61,61,61	0
6	DDQ	В	1102	14/14	0.80	0.31	64,68,73,74	0
10	PTY	С	1101	50/50	0.80	0.46	81,87,105,106	0
3	LMT	A	1101	35/35	0.84	0.29	75,90,101,103	0
3	LMT	A	1102	35/35	0.86	0.49	94,98,101,101	0
3	LMT	В	1106	35/35	0.86	0.33	86,88,92,92	0
8	FUA	В	1104	37/37	0.87	0.33	74,76,91,93	0
4	SO4	A	1103	5/5	0.89	0.24	140,140,141,141	0
5	D10	В	1101	10/10	0.89	0.19	48,49,49,49	0
3	LMT	С	1102	35/35	0.90	0.27	63,65,67,68	0
4	SO4	С	1103	5/5	0.93	0.17	75,75,75,75	0
7	GOL	В	1103	6/6	0.95	0.22	47,48,48,48	0

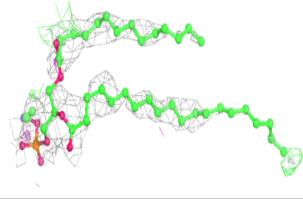
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

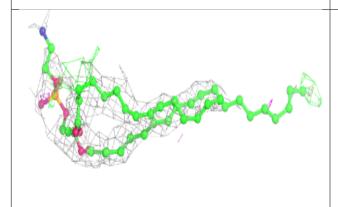


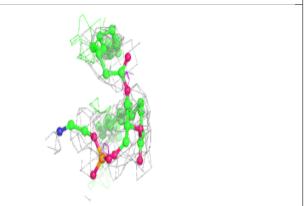


Electron density around PTY C 1101: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c \ (\mathrm{at}\ 0.7\ \mathrm{rmsd}) \ \mathrm{in}\ \mathrm{gray}$

 ${
m mF}_o{
m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

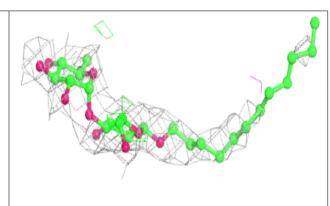


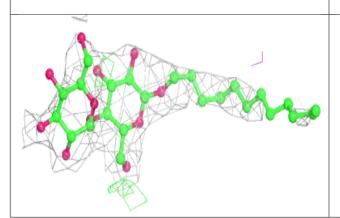


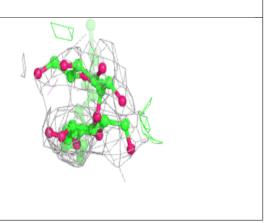


Electron density around LMT A 1101:

 $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray $\mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 3 rmsd) in purple (negative) and green (positive)

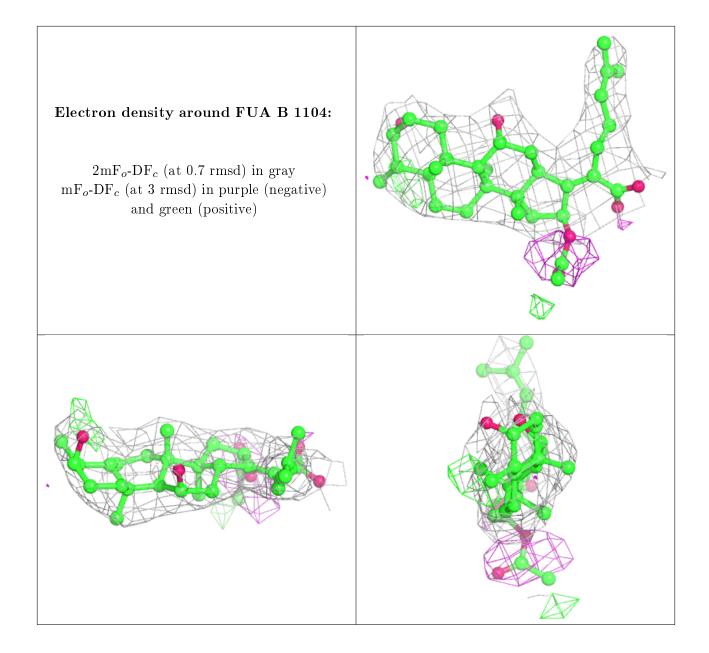




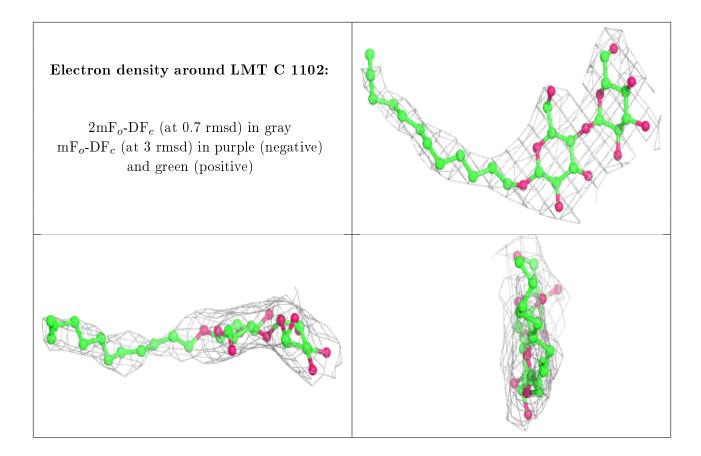












6.5 Other polymers (i)

There are no such residues in this entry.

