

Full wwPDB X-ray Structure Validation Report (i)

Apr 14, 2022 – 04:13 am BST

PDB ID : 6ZFG

Title : 14-3-3 zeta chimera with 18E6 and fusicoccin Authors : Gogl, G.; Tugaeva, K.; Sluchanko, N.N.; Trave, G.

Deposited on : 2020-06-17

Resolution : 1.85 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 : 1.8.4, CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.27

buster-report : 1.1.7 (2018)

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

Refmac : 5.8.0267

CCP4 : 7.1.010 (Gargrove)

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

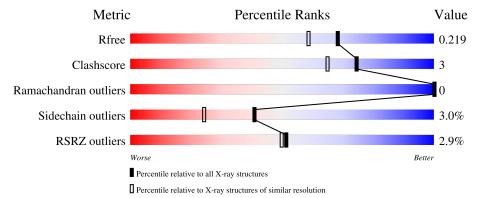
Validation Pipeline (wwPDB-VP) : 2.27

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 1.85 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	2469 (1.86-1.86)
Clashscore	141614	2625 (1.86-1.86)
Ramachandran outliers	138981	2592 (1.86-1.86)
Sidechain outliers	138945	2592 (1.86-1.86)
RSRZ outliers	127900	2436 (1.86-1.86)

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	243	93%	5% ••			
1	В	243	90%	9%			



2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 4588 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 14-3-3 protein zeta/delta, Protein E6.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace		
1	A	240	Total 1990	C 1234		0	-	S 11	0	13	0
1	В	242	Total 2013		N	О	P 1	S 10	0	12	0

There are 28 discrepancies between the modelled and reference sequences:

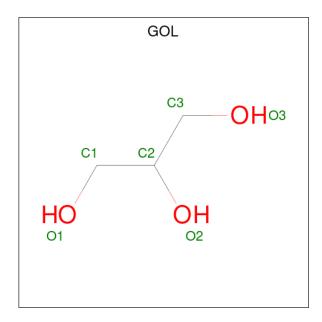
Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	GLY	-	expression tag	UNP P63104
A	-1	PRO	-	expression tag	UNP P63104
A	0	HIS	-	expression tag	UNP P63104
A	58	ALA	SER	conflict	UNP P63104
A	73	ALA	GLU	conflict	UNP P63104
A	74	ALA	LYS	conflict	UNP P63104
A	75	ALA	LYS	conflict	UNP P63104
A	157	ALA	LYS	conflict	UNP P63104
A	158	ALA	LYS	conflict	UNP P63104
A	159	ALA	GLU	conflict	UNP P63104
A	230	GLY	-	linker	UNP P63104
A	231	GLY	-	linker	UNP P63104
A	232	GLY	-	linker	UNP P63104
A	233	GLY	-	linker	UNP P63104
В	-2	GLY	-	expression tag	UNP P63104
В	-1	PRO	-	expression tag	UNP P63104
В	0	HIS	-	expression tag	UNP P63104
В	58	ALA	SER	conflict	UNP P63104
В	73	ALA	GLU	conflict	UNP P63104
В	74	ALA	LYS	conflict	UNP P63104
В	75	ALA	LYS	conflict	UNP P63104
В	157	ALA	LYS	conflict	UNP P63104
В	158	ALA	LYS	conflict	UNP P63104
В	159	ALA	GLU	conflict	UNP P63104
В	230	GLY	-	linker	UNP P63104



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Chain	Residue	Modelled	Actual	Comment	Reference
В	231	GLY	-	linker	UNP P63104
В	232	GLY	-	linker	UNP P63104
В	233	GLY	-	linker	UNP P63104

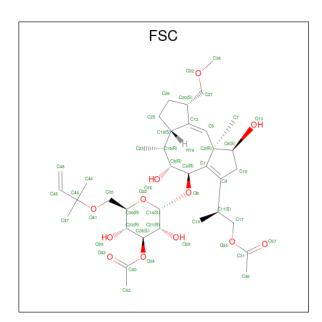
• Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

• Molecule 3 is FUSICOCCIN (three-letter code: FSC) (formula: $C_{36}H_{56}O_{12}$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 48 36 12	0	0
3	В	1	Total C O 48 36 12	0	0

• Molecule 4 is water.

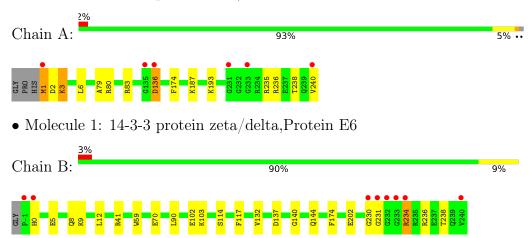
Mo	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	240	Total O 240 240	0	0
4	В	243	Total O 243 243	0	0



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: 14-3-3 protein zeta/delta,Protein E6





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	73.23Å 76.10Å 88.95Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	38.40 - 1.85	Depositor
rtesolution (A)	38.40 - 1.85	EDS
% Data completeness	96.8 (38.40-1.85)	Depositor
(in resolution range)	96.8 (38.40-1.85)	EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.64 (at 1.85Å)	Xtriage
Refinement program	PHENIX 1.14_3260	Depositor
D D.	0.191 , 0.219	Depositor
R, R_{free}	0.191 , 0.219	DCC
R_{free} test set	1992 reflections (4.77%)	wwPDB-VP
Wilson B-factor (Å ²)	23.9	Xtriage
Anisotropy	0.138	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$< L >=0.50, < L^2>=0.33$	Xtriage
Estimated twinning fraction	0.012 for k,h,-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4588	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 9.33% 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: TPO, FSC, GOL

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		
IVIO	RMS		RMSZ $ \# Z > 5$		# Z > 5	
1	A	0.27	0/2003	0.45	1/2692~(0.0%)	
1	В	0.31	0/2028	0.45	2/2724 (0.1%)	
All	All	0.29	0/4031	0.45	3/5416 (0.1%)	

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
1	A	136	ASP	CB-CG-OD2	5.19	122.97	118.30
1	В	8[A]	GLN	O-C-N	-5.09	114.55	122.70
1	В	8[B]	GLN	O-C-N	-5.09	114.55	122.70

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	1990	0	1956	7	0
1	В	2013	0	1983	18	0
2	A	6	0	8	0	0
3	A	48	0	56	2	0
3	В	48	0	56	0	0
4	A	240	0	0	3	0



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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	В	243	0	0	9	0
All	All	4588	0	4059	26	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 3.

All (26) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${\rm distance} \ ({\rm \AA})$	overlap (Å)
1:B:103:LYS:HE3	4:B:588:HOH:O	1.43	1.18
1:B:231:GLY:HA2	4:B:576:HOH:O	1.90	0.70
1:B:102:GLU:HG2	4:B:465:HOH:O	2.00	0.61
1:B:230:GLY:HA2	1:B:234:ARG:HD3	1.82	0.61
1:B:140:GLY:O	1:B:144:GLN:HG2	2.03	0.59
1:A:235:ARG:NH2	4:A:409:HOH:O	2.35	0.58
1:B:41[B]:ARG:HD3	1:B:117:PHE:CE2	2.38	0.58
1:A:1:MET:HG3	1:A:6:LEU:HG	1.85	0.58
1:B:114:SER:HB3	4:B:416:HOH:O	2.04	0.57
1:B:5:GLU:O	1:B:9[C]:LYS:HG3	2.07	0.55
1:A:79:ALA:HA	1:B:12:LEU:HD21	1.89	0.54
1:B:0:HIS:CE1	4:B:408:HOH:O	2.62	0.53
1:A:193:LYS:NZ	4:A:411:HOH:O	2.42	0.49
1:B:0:HIS:ND1	4:B:408:HOH:O	2.35	0.48
1:B:230:GLY:HA2	1:B:234:ARG:HH11	1.79	0.48
1:B:90[B]:LEU:HD23	1:B:132:VAL:HG11	1.95	0.47
1:A:80:ARG:HG3	1:A:83:ARG:NH1	2.31	0.46
1:B:9[B]:LYS:HB3	4:B:437:HOH:O	2.15	0.45
3:A:302:FSC:C1	3:A:302:FSC:H19	2.47	0.45
3:A:302:FSC:C1	3:A:302:FSC:C19	2.95	0.44
1:B:59:TRP:CE2	1:B:132:VAL:HG12	2.53	0.44
1:B:202:GLU:OE1	4:B:401:HOH:O	2.21	0.44
1:B:9[C]:LYS:HB3	4:B:437:HOH:O	2.18	0.43
1:A:136:ASP:OD1	1:A:136:ASP:O	2.38	0.42
1:B:41[B]:ARG:HD3	1:B:117:PHE:CZ	2.54	0.42
1:A:3:LYS:NZ	4:A:402:HOH:O	2.53	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	entiles
1	A	$250/243\ (103\%)$	245 (98%)	5 (2%)	0	100	100
1	В	$251/243\ (103\%)$	249 (99%)	2 (1%)	0	100	100
All	All	501/486 (103%)	494 (99%)	7 (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	S
1	A	211/200 (106%)	204 (97%)	7 (3%)	38 21	
1	В	212/200 (106%)	207 (98%)	5 (2%)	49 33	
All	All	423/400 (106%)	411 (97%)	12 (3%)	41 27	

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	2	ASP
1	A	3	LYS
1	A	174	PHE
1	A	187	LYS
1	A	236	ARG
1	A	240	VAL
1	В	70	GLU



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Mol	Chain	Res	Type
1	В	137	ASP
1	В	174	PHE
1	В	234	ARG
1	В	236	ARG

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

Mol	Chain	Res	Type
1	В	144	GLN

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	Trmo	Chain	Dec	es Link By 1977 1977 1977				В	ond ang	cles
MIOI	Type	Chain	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	TPO	В	238	1	8,10,11	1.61	1 (12%)	10,14,16	1.70	2 (20%)
1	TPO	A	238	1	8,10,11	1.87	3 (37%)	10,14,16	0.92	1 (10%)

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
1	TPO	В	238	1	-	3/9/11/13	-
1	TPO	A	238	1	-	1/9/11/13	-



All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
1	В	238	TPO	P-O1P	3.27	1.61	1.50
1	A	238	TPO	P-O2P	-3.06	1.43	1.54
1	A	238	TPO	P-O3P	-2.98	1.43	1.54
1	A	238	TPO	P-O1P	-2.91	1.41	1.50

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(^{o})$	$\operatorname{Ideal}({}^{o})$
1	В	238	TPO	P-OG1-CB	-4.30	110.23	123.21
1	В	238	TPO	CG2-CB-CA	-2.64	107.94	113.16
1	A	238	TPO	O-C-CA	-2.24	118.92	124.78

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	В	238	TPO	CB-OG1-P-O2P
1	В	238	TPO	CB-OG1-P-O3P
1	A	238	TPO	O-C-CA-CB
1	В	238	TPO	O-C-CA-CB

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

3 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	Tuno	Chain	Res	Link	Bo	Bond lengths			Bond angles		
MIOI	Type	Chain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2	
2	GOL	A	301	-	5,5,5	0.21	0	5,5,5	0.48	0	
3	FSC	В	301	-	46,51,51	0.82	1 (2%)	47,77,77	1.33	4 (8%)	
3	FSC	A	302	-	46,51,51	0.80	2 (4%)	47,77,77	0.94	2 (4%)	

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	A	301	-	-	2/4/4/4	-
3	FSC	В	301	-	-	4/29/103/103	0/4/4/4
3	FSC	A	302	-	-	3/29/103/103	0/4/4/4

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\mathring{\mathrm{A}})$	$\operatorname{Ideal}(\operatorname{\AA})$
3	В	301	FSC	C19-C15	-3.10	1.53	1.56
3	A	302	FSC	C19-C15	-2.34	1.54	1.56
3	A	302	FSC	O13-C6	-2.32	1.39	1.43

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	В	301	FSC	C19-C15-C9	4.04	116.64	112.39
3	В	301	FSC	C7-C2-C6	-3.59	107.53	112.81
3	В	301	FSC	C15-C19-C12	-3.54	113.58	118.11
3	A	302	FSC	C26-C20-C12	2.35	106.36	101.98
3	A	302	FSC	C7-C2-C6	-2.14	109.66	112.81
3	В	301	FSC	O41-C44-C46	2.05	115.79	106.58

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	301	GOL	C1-C2-C3-O3
3	A	302	FSC	O41-C44-C45-C48
3	В	301	FSC	C42-C40-O34-C28
3	В	301	FSC	O43-C40-O34-C28
3	В	301	FSC	O37-C31-O24-C17



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	Mol	Chain	Res	Type	Atoms
	3	В	301	FSC	C36-C31-O24-C17
ſ	2	A	301	GOL	O2-C2-C3-O3
	3	A	302	FSC	C46-C44-O41-C35
Ī	3	A	302	FSC	C47-C44-C45-C48

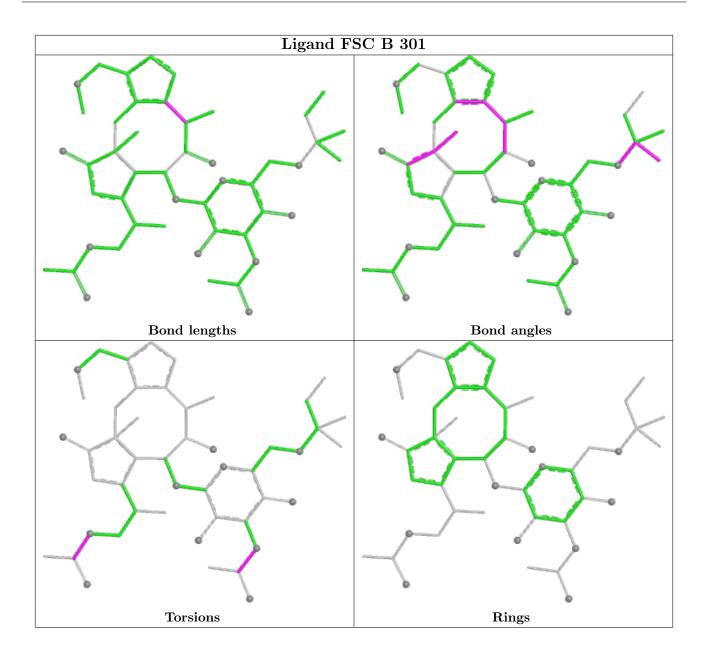
There are no ring outliers.

1 monomer is involved in 2 short contacts:

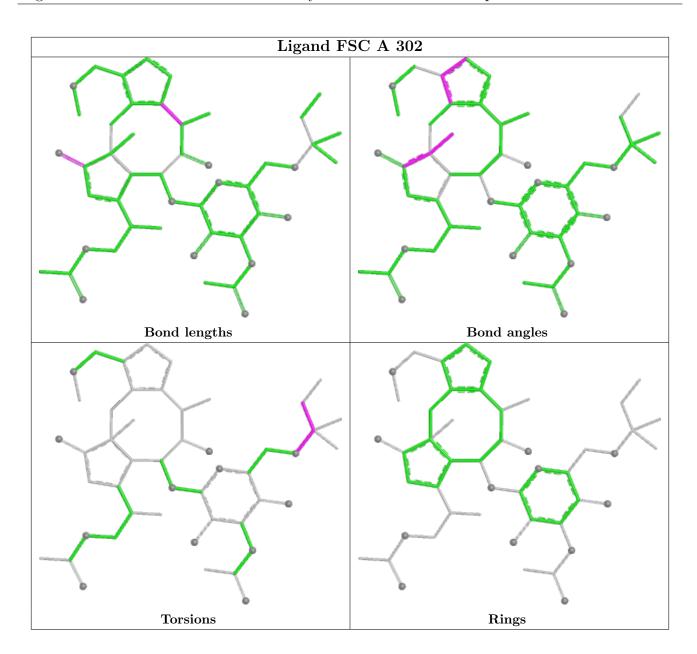
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	302	FSC	2	0

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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(A^2)$	Q < 0.9
1	A	239/243 (98%)	-0.20	6 (2%) 57 56	15, 25, 55, 102	0
1	В	241/243 (99%)	-0.08	8 (3%) 46 44	15, 26, 51, 114	2 (0%)
All	All	480/486 (98%)	-0.14	14 (2%) 51 50	15, 25, 53, 114	2 (0%)

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	В	232	GLY	7.4
1	В	231	GLY	6.8
1	В	233	GLY	6.4
1	В	-1	PRO	5.4
1	A	1	MET	4.8
1	A	240	VAL	4.8
1	A	233	GLY	4.6
1	В	0	HIS	4.5
1	A	136	ASP	4.1
1	В	240	VAL	3.8
1	A	231	GLY	3.7
1	A	135	GLY	3.4
1	В	230	GLY	3.2
1	В	234	ARG	3.0

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	TPO	В	238	11/12	0.96	0.12	24,27,32,32	0
1	TPO	A	238	11/12	0.97	0.09	22,27,33,33	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

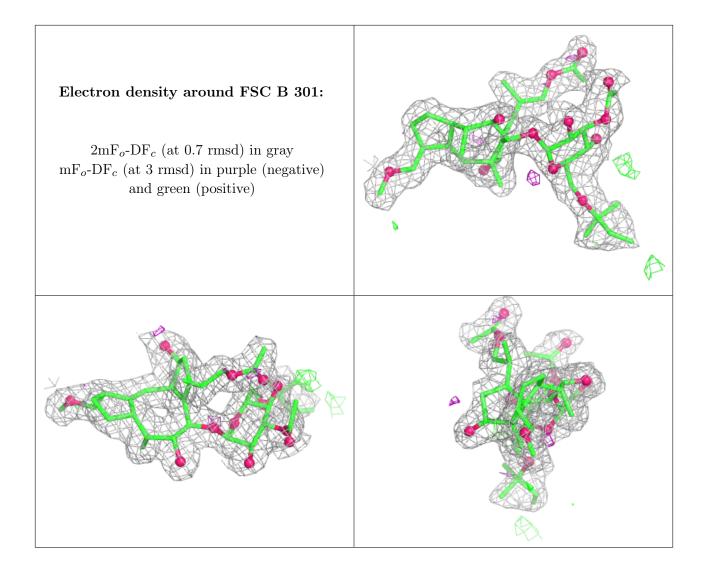
6.4 Ligands (i)

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.

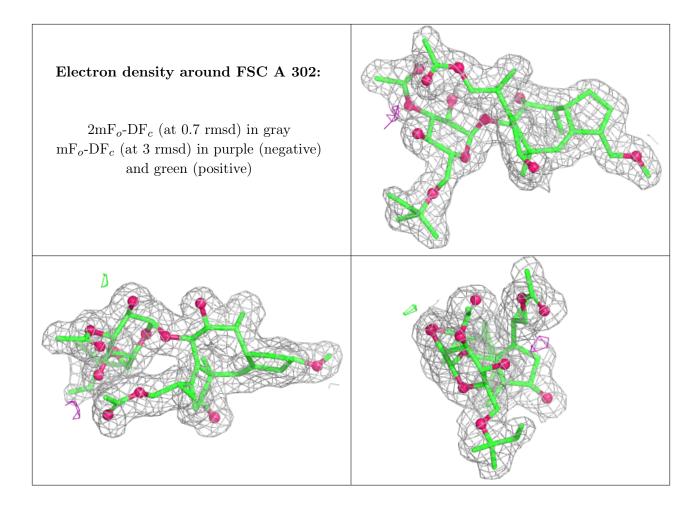
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	GOL	A	301	6/6	0.83	0.20	47,52,55,55	0
3	FSC	В	301	48/48	0.90	0.14	23,35,54,57	0
3	FSC	A	302	48/48	0.96	0.09	13,23,38,42	0

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.

