



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 9, 2021 – 12:22 PM JST

PDB ID : 7C0U
Title : Crystal structure of a dinucleotide-binding protein (S127A) of ABC transporter endogenously bound to uridylyl-3'-5'-phospho-guanosine
Authors : Kanaujia, S.P.; Chandravanshi, M.; Samanta, R.
Deposited on : 2020-05-01
Resolution : 1.80 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 ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) 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 : 2.23.1
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) : 2.23.1

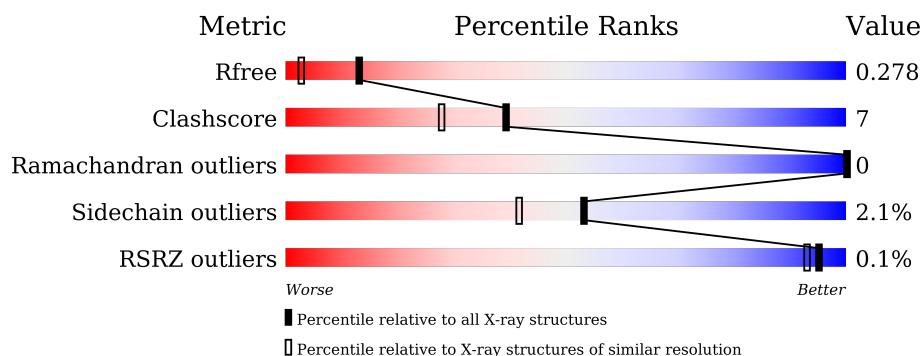
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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 $\leq 5\%$. 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	406	<div> <div style="width: 85%;"></div> <div style="width: 12%;"></div> <div style="width: 3%;"></div> <div style="width: 2%;"></div> </div> <div>85% 12% ..</div>
1	B	406	<div> <div style="width: 85%;"></div> <div style="width: 12%;"></div> <div style="width: 3%;"></div> </div> <div>85% 12% .</div>

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
3	EDO	A	503	-	-	X	-
3	EDO	A	505	-	-	X	-
5	PEG	B	504	-	-	X	-
5	PEG	B	505	-	-	X	-

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 7052 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 Sugar ABC transporter, periplasmic sugar-binding protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	397	Total	C	N	O	S	0	5	0
			3087	2001	517	564	5			
1	B	397	Total	C	N	O	S	0	10	0
			3109	2017	522	565	5			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	MET	-	initiating methionine	UNP Q5SLB4
A	0	MET	-	expression tag	UNP Q5SLB4
A	127	ALA	SER	engineered mutation	UNP Q5SLB4
A	399	HIS	-	expression tag	UNP Q5SLB4
A	400	HIS	-	expression tag	UNP Q5SLB4
A	401	HIS	-	expression tag	UNP Q5SLB4
A	402	HIS	-	expression tag	UNP Q5SLB4
A	403	HIS	-	expression tag	UNP Q5SLB4
A	404	HIS	-	expression tag	UNP Q5SLB4
B	-1	MET	-	initiating methionine	UNP Q5SLB4
B	0	MET	-	expression tag	UNP Q5SLB4
B	127	ALA	SER	engineered mutation	UNP Q5SLB4
B	399	HIS	-	expression tag	UNP Q5SLB4
B	400	HIS	-	expression tag	UNP Q5SLB4
B	401	HIS	-	expression tag	UNP Q5SLB4
B	402	HIS	-	expression tag	UNP Q5SLB4
B	403	HIS	-	expression tag	UNP Q5SLB4
B	404	HIS	-	expression tag	UNP Q5SLB4

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

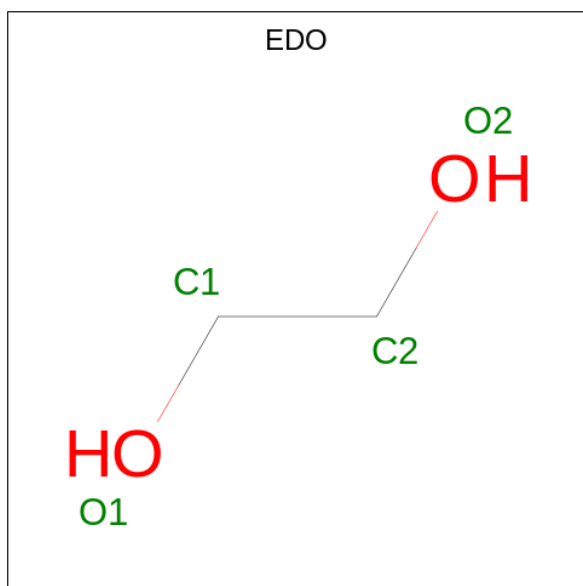
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Cl	0	0
			2	2		

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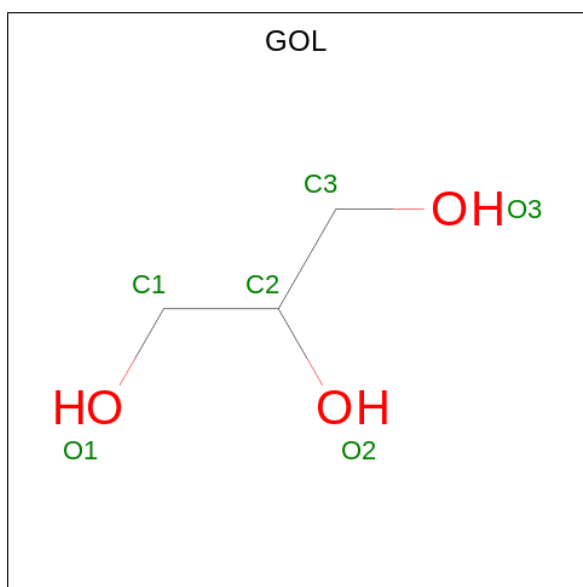
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Cl	0	0
			1	1		

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).



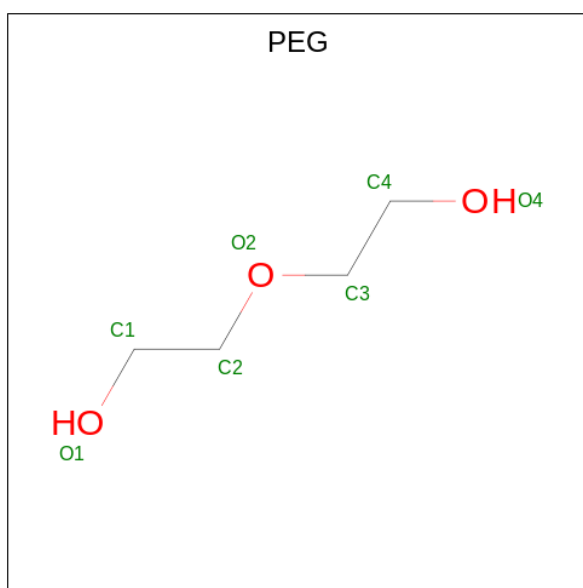
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	A	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

- Molecule 5 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



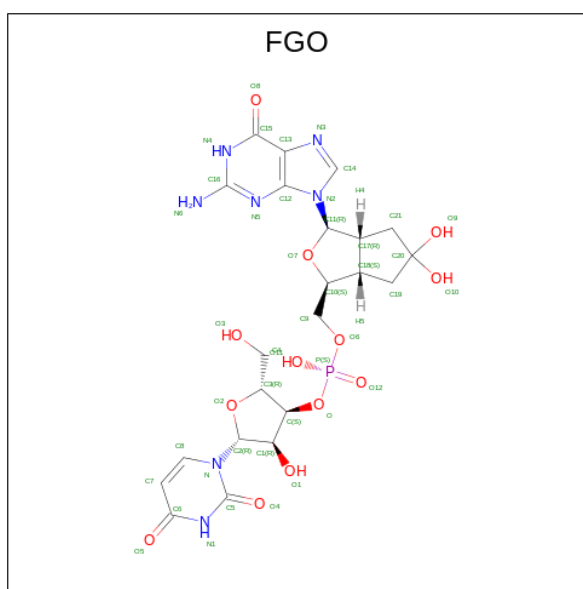
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			7	4	3		
5	A	1	Total	C	O	0	0
			7	4	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	C	O	0	0
			7	4	3		
5	B	1	Total	C	O	0	0
			7	4	3		

- Molecule 6 is [(1S,3R,3aR,6aS)-3-(2-azanyl-6-oxidanylidene-1H-purin-9-yl)-5,5-bis(oxidanyl)-1,3,3a,4,6,6a-hexahydrocyclopenta[c]furan-1-yl]methyl [(2R,3S,4R,5R)-5-[2,4-bis(oxidanylidene)pyrimidin-1-yl]-2-(hydroxymethyl)-4-oxidanyl-oxolan-3-yl]hydrogen phosphate (three-letter code: FGO) (formula: C₂₂H₂₈N₇O₁₃P) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	A	1	Total	C	N	O	P	0	0
			43	22	7	13	1		
6	B	1	Total	C	N	O	P	0	0
			43	22	7	13	1		


- Molecule 7 is water.

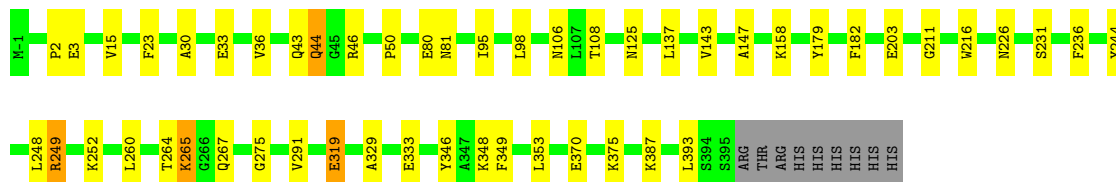
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	378	Total	O	0	0
			378	378		
7	B	333	Total	O	0	0
			333	333		

3 Residue-property plots


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.

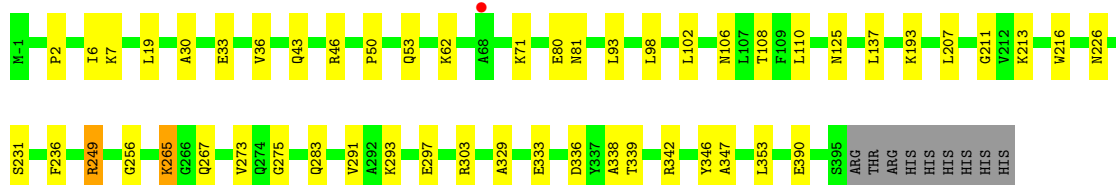
- Molecule 1: Sugar ABC transporter, periplasmic sugar-binding protein

Chain A: 



- Molecule 1: Sugar ABC transporter, periplasmic sugar-binding protein

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	66.99Å 57.28Å 121.60Å 90.00° 94.93° 90.00°	Depositor
Resolution (Å)	46.95 – 1.80 46.91 – 1.80	Depositor EDS
% Data completeness (in resolution range)	96.9 (46.95-1.80) 96.9 (46.91-1.80)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.40 (at 1.79Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.226 , 0.274 0.232 , 0.278	Depositor DCC
R_{free} test set	4013 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	16.3	Xtriage
Anisotropy	0.132	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 27.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.44$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	7052	wwPDB-VP
Average B, all atoms (Å ²)	17.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 14.42% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GOL, CL, FGO, EDO, PEG

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	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.92	2/3172 (0.1%)	0.99	3/4302 (0.1%)
1	B	0.92	1/3209 (0.0%)	1.00	5/4351 (0.1%)
All	All	0.92	3/6381 (0.0%)	1.00	8/8653 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	80	GLU	CD-OE2	11.89	1.38	1.25
1	A	80[A]	GLU	CD-OE2	7.06	1.33	1.25
1	A	80[B]	GLU	CD-OE2	7.06	1.33	1.25

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	236	PHE	CB-CA-C	-7.68	95.03	110.40
1	B	236	PHE	CB-CA-C	-7.10	96.20	110.40
1	B	249[A]	ARG	NE-CZ-NH1	-5.83	117.38	120.30
1	B	249[B]	ARG	NE-CZ-NH1	-5.83	117.38	120.30
1	A	179	TYR	CB-CG-CD2	-5.82	117.51	121.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	3087	0	3134	47	0
1	B	3109	0	3177	44	0
2	A	2	0	0	0	0
2	B	1	0	0	0	0
3	A	12	0	17	14	0
3	B	4	0	6	2	0
4	A	6	0	8	0	0
4	B	6	0	8	0	0
5	A	14	0	20	4	0
5	B	14	0	20	9	0
6	A	43	0	0	0	0
6	B	43	0	0	0	0
7	A	378	0	0	13	0
7	B	333	0	0	10	0
All	All	7052	0	6390	94	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 7.

The worst 5 of 94 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:LYS:HE2	1:B:265:LYS:H	1.04	1.13
1:A:44:GLN:O	1:A:44:GLN:HG3	1.63	0.99
1:B:336:ASP:OD1	3:B:502:EDO:O1	1.86	0.93
1:A:249:ARG:NH2	5:A:507:PEG:O4	2.03	0.91
1:B:207:LEU:HD12	7:B:698:HOH:O	1.68	0.91

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	400/406 (98%)	394 (98%)	6 (2%)	0	100	100
1	B	405/406 (100%)	400 (99%)	5 (1%)	0	100	100
All	All	805/812 (99%)	794 (99%)	11 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	314/318 (99%)	306 (98%)	8 (2%)	47	34
1	B	319/318 (100%)	314 (98%)	5 (2%)	62	54
All	All	633/636 (100%)	620 (98%)	13 (2%)	53	42

5 of 13 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	393	LEU
1	B	7	LYS
1	B	265	LYS
1	B	213	LYS
1	B	226	ASN

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

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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](#)

Of 15 ligands modelled in this entry, 3 are monoatomic - leaving 12 for Mogul analysis.

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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	FGO	A	509	-	40,48,48	1.24	4 (10%)	39,75,75	1.83	8 (20%)
5	PEG	A	508	-	6,6,6	0.19	0	5,5,5	0.13	0
3	EDO	A	504	-	3,3,3	0.17	0	2,2,2	0.30	0
3	EDO	B	502	-	3,3,3	0.17	0	2,2,2	0.11	0
5	PEG	B	504	-	6,6,6	0.16	0	5,5,5	0.15	0
3	EDO	A	503	-	3,3,3	0.11	0	2,2,2	0.53	0
4	GOL	A	506	-	5,5,5	0.10	0	5,5,5	0.23	0
5	PEG	B	505	-	6,6,6	0.24	0	5,5,5	0.07	0
5	PEG	A	507	-	6,6,6	0.23	0	5,5,5	0.21	0
4	GOL	B	503	-	5,5,5	0.08	0	5,5,5	0.31	0
3	EDO	A	505	-	3,3,3	0.85	0	2,2,2	0.42	0
6	FGO	B	506	-	40,48,48	1.31	4 (10%)	39,75,75	1.89	9 (23%)

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
6	FGO	A	509	-	-	0/15/63/63	0/6/6/6
5	PEG	A	508	-	-	3/4/4/4	-
3	EDO	A	504	-	-	0/1/1/1	-
3	EDO	B	502	-	-	0/1/1/1	-
5	PEG	B	504	-	-	2/4/4/4	-
3	EDO	A	503	-	-	1/1/1/1	-
4	GOL	A	506	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	PEG	B	505	-	-	3/4/4/4	-
5	PEG	A	507	-	-	2/4/4/4	-
4	GOL	B	503	-	-	0/4/4/4	-
3	EDO	A	505	-	-	1/1/1/1	-
6	FGO	B	506	-	-	1/15/63/63	0/6/6/6

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	509	FGO	C15-C13	3.73	1.47	1.41
6	B	506	FGO	C19-C18	-3.53	1.48	1.53
6	B	506	FGO	C21-C17	-3.14	1.48	1.53
6	B	506	FGO	C15-C13	3.08	1.46	1.41
6	A	509	FGO	C19-C18	-2.97	1.48	1.53

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	B	506	FGO	C15-C13-C12	-5.06	115.97	120.80
6	A	509	FGO	C13-C15-N4	-4.86	116.79	123.43
6	A	509	FGO	C15-C13-C12	-4.69	116.32	120.80
6	B	506	FGO	C11-N2-C12	-4.55	118.64	126.64
6	A	509	FGO	C15-N4-C16	4.53	123.12	115.93

There are no chirality outliers.

5 of 15 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	B	506	FGO	O2-C2-N-C8
5	A	508	PEG	O2-C3-C4-O4
5	A	507	PEG	O1-C1-C2-O2
5	A	508	PEG	O1-C1-C2-O2
4	A	506	GOL	O1-C1-C2-C3

There are no ring outliers.

7 monomers are involved in 29 short contacts:

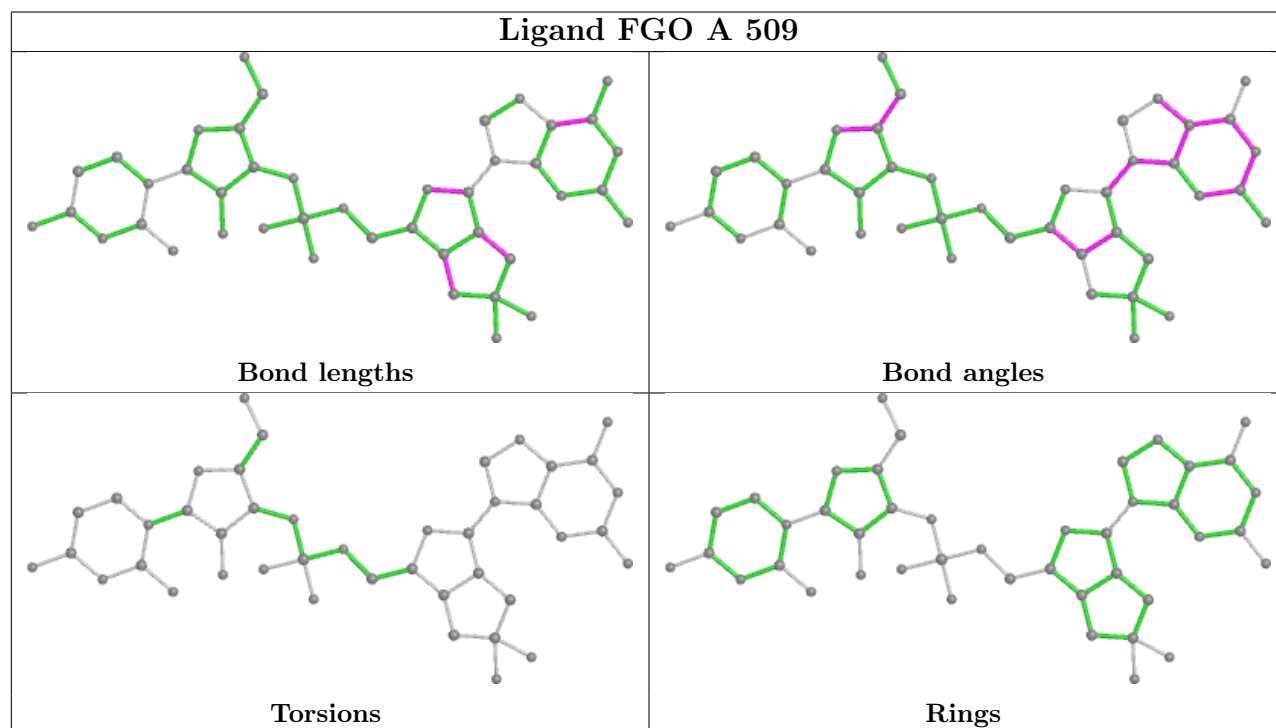
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	508	PEG	2	0
3	B	502	EDO	2	0

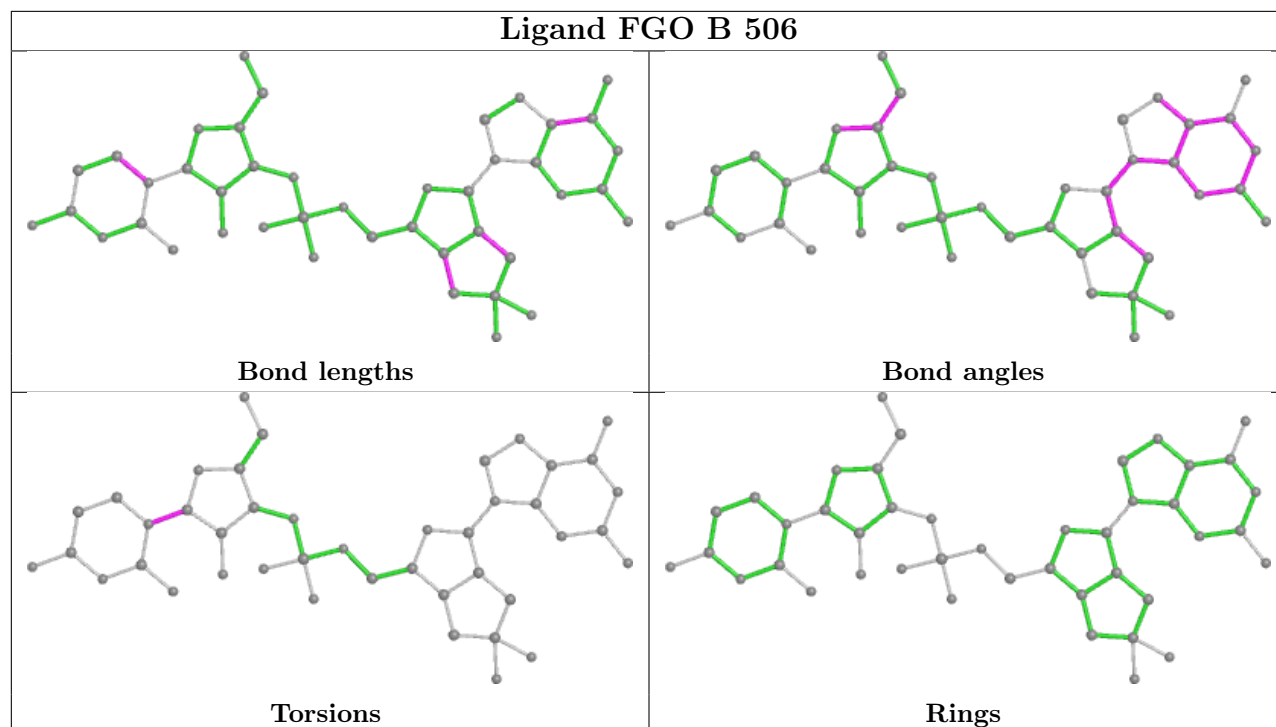
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	504	PEG	5	0
3	A	503	EDO	7	0
5	B	505	PEG	4	0
5	A	507	PEG	2	0
3	A	505	EDO	7	0

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 than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9
1	A	397/406 (97%)	-0.32	0	100 100	7, 15, 27, 41	0
1	B	397/406 (97%)	-0.26	1 (0%)	94 92	7, 15, 30, 44	0
All	All	794/812 (97%)	-0.29	1 (0%)	95 93	7, 15, 29, 44	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	68	ALA	2.6

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, 95th 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.

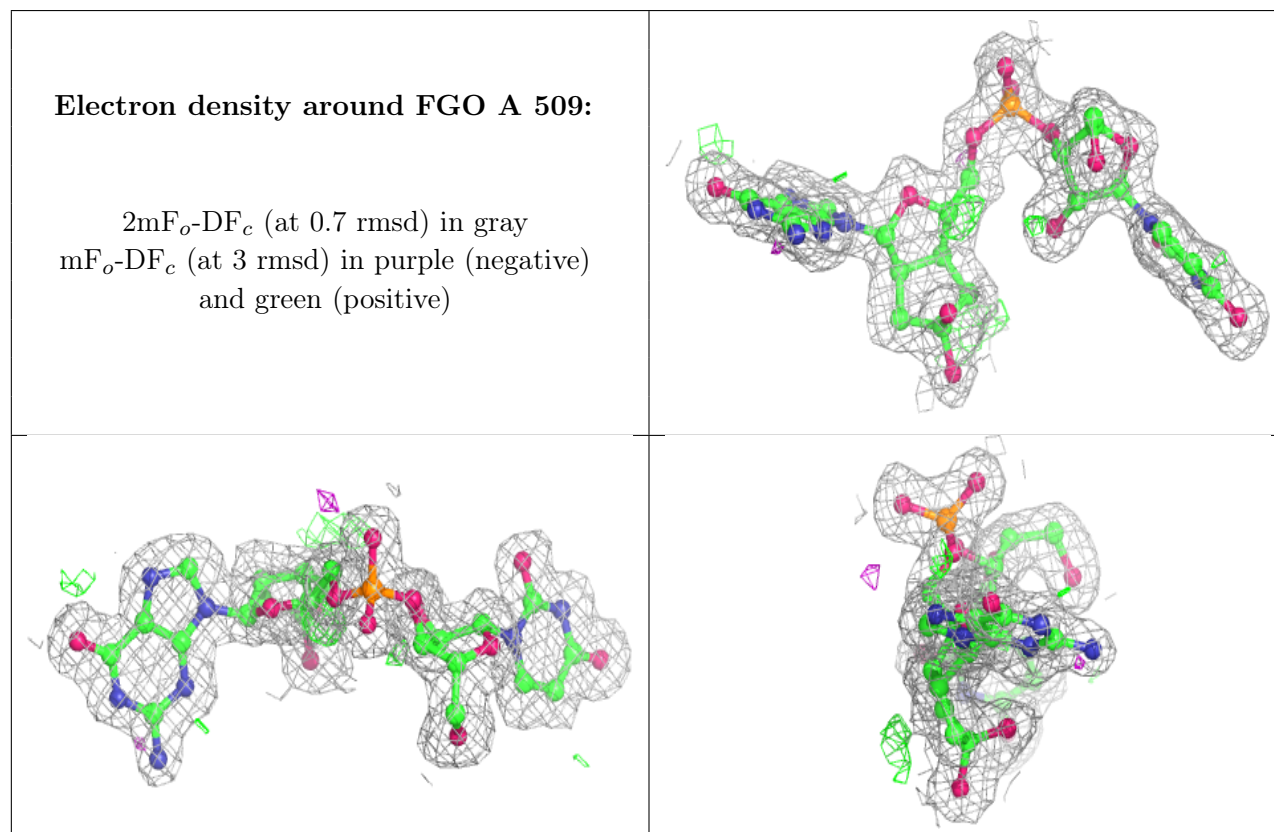
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
5	PEG	B	504	7/7	0.81	0.13	38,41,43,47	0
5	PEG	A	508	7/7	0.83	0.13	37,39,40,42	0
5	PEG	B	505	7/7	0.86	0.13	27,29,30,31	0
5	PEG	A	507	7/7	0.87	0.16	27,29,31,35	0

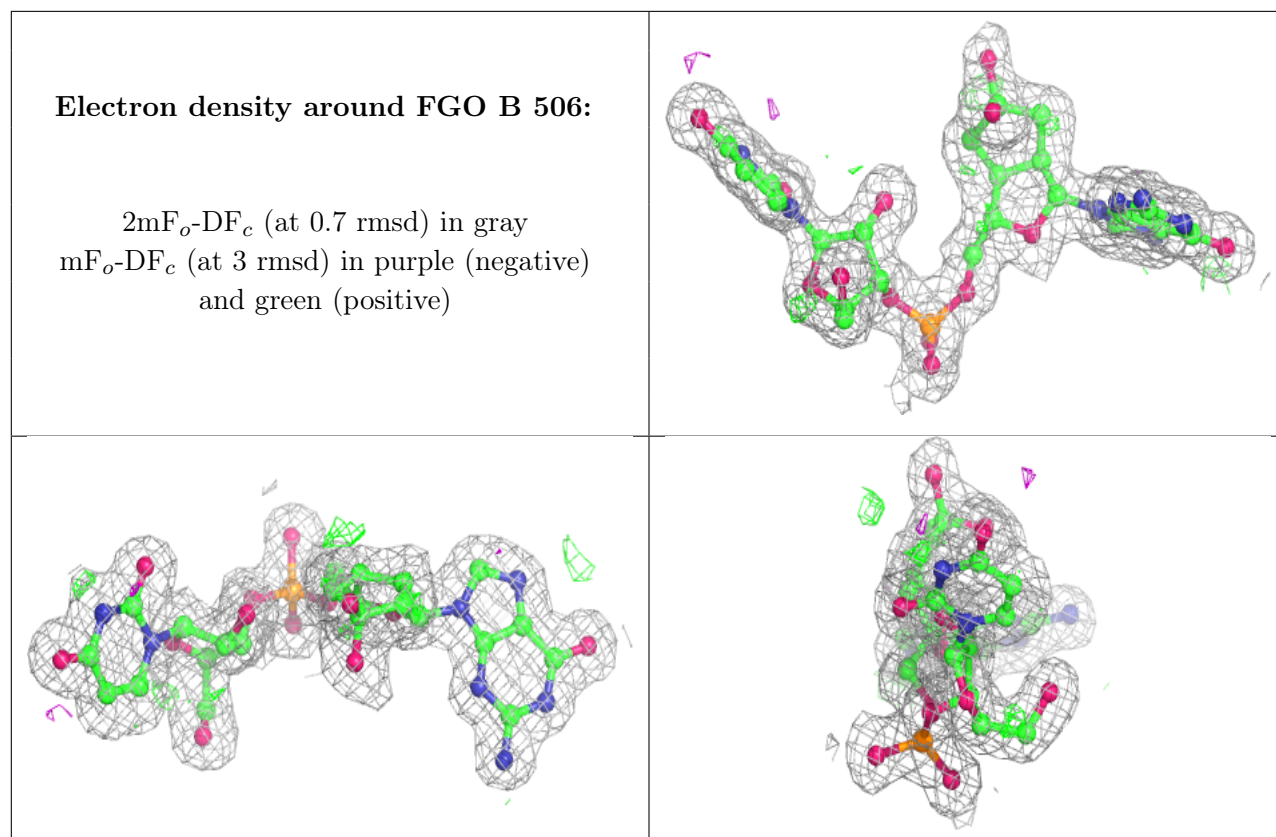
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
3	EDO	A	504	4/4	0.89	0.14	17,18,18,19	0
4	GOL	A	506	6/6	0.91	0.15	24,26,27,32	0
3	EDO	A	503	4/4	0.92	0.13	29,29,30,31	0
3	EDO	B	502	4/4	0.94	0.14	26,27,27,28	0
4	GOL	B	503	6/6	0.94	0.12	20,22,23,25	0
3	EDO	A	505	4/4	0.95	0.11	14,17,18,18	0
6	FGO	A	509	43/43	0.95	0.09	9,14,19,23	0
2	CL	A	502	1/1	0.96	0.09	39,39,39,39	0
6	FGO	B	506	43/43	0.96	0.08	9,14,18,23	0
2	CL	B	501	1/1	0.97	0.07	30,30,30,30	0
2	CL	A	501	1/1	0.98	0.07	30,30,30,30	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.