

wwPDB X-ray Structure Validation Summary Report (i)

Dec 17, 2023 – 07:23 PM EST

PDB ID	:	4WVF
Title	:	Crystal structure of KPT276 in complex with CRM1-Ran-RanBP1
Authors	:	Sun, Q.; Chook, Y.
Deposited on		
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 (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 (1)) were used in the production of this report:

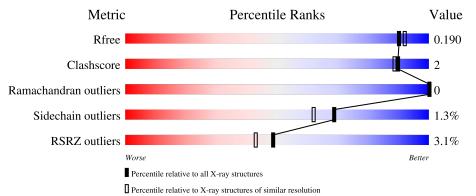
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as 541 be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
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 <=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	А	216	<u>6%</u> 92%	5% •
2	В	140	<u>6%</u> 90%	• 7%
3	С	1024	2% 94%	5% •



2 Entry composition (i)

There are 10 unique types of molecules in this entry. The entry contains 12622 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 GTP-binding nuclear protein Ran.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	А	209	Total 1714	C 1105	N 294	O 308	${ m S} 7$	0	5	0

• Molecule 2 is a protein called Ran-specific GTPase-activating protein 1.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
2	В	130	Total 1075	C 683	N 186	0 201	${ m S}{ m 5}$	0	1	0

• Molecule 3 is a protein called Crm1p.

Mol	Chain	Residues		Α	toms			ZeroOcc	AltConf	Trace
3	С	1017	Total 8367	C 5386	N 1361	O 1577	S 43	0	27	0

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	-2	GLY	-	expression tag	UNP W7PTE1
С	-1	GLY	-	expression tag	UNP W7PTE1
С	0	SER	-	expression tag	UNP W7PTE1
С	?	-	VAL	deletion	UNP W7PTE1
С	?	-	GLN	deletion	UNP W7PTE1
С	?	-	ARG	deletion	UNP W7PTE1
С	?	-	LEU	deletion	UNP W7PTE1
С	?	-	PRO	deletion	UNP W7PTE1
С	?	-	ALA	deletion	UNP W7PTE1
С	?	-	THR	deletion	UNP W7PTE1
С	?	-	GLU	deletion	UNP W7PTE1
С	?	-	MET	deletion	UNP W7PTE1
С	?	-	SER	deletion	UNP W7PTE1
С	?	-	PRO	deletion	UNP W7PTE1

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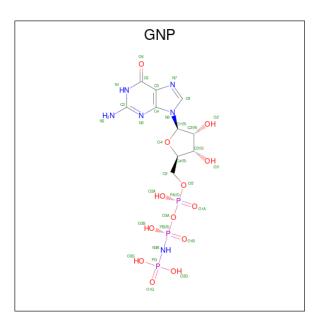


Chain	Residue	Modelled	Actual	Comment	Reference
С	?	-	LEU	deletion	UNP W7PTE1
С	?	-	ILE	deletion	UNP W7PTE1
С	?	-	GLN	deletion	UNP W7PTE1
С	?	-	LEU	deletion	UNP W7PTE1
С	?	-	SER	deletion	UNP W7PTE1
С	?	-	VAL	deletion	UNP W7PTE1
С	?	_	GLY	deletion	UNP W7PTE1
С	?	-	SER	deletion	UNP W7PTE1
С	?	-	GLN	deletion	UNP W7PTE1
С	?	-	ALA	deletion	UNP W7PTE1
С	?	-	ILE	deletion	UNP W7PTE1
С	?	-	SER	deletion	UNP W7PTE1
С	?	-	THR	deletion	UNP W7PTE1
С	?	-	GLY	deletion	UNP W7PTE1
С	?	-	SER	deletion	UNP W7PTE1
С	?	-	GLY	deletion	UNP W7PTE1
С	?	-	ALA	deletion	UNP W7PTE1
С	?	-	LEU	deletion	UNP W7PTE1
С	?	-	ASN	deletion	UNP W7PTE1
С	?	-	PRO	deletion	UNP W7PTE1
С	?	-	GLU	deletion	UNP W7PTE1
С	?	-	TYR	deletion	UNP W7PTE1
С	?	-	MET	deletion	UNP W7PTE1
С	?	-	LYS	deletion	UNP W7PTE1
С	?	-	ARG	deletion	UNP W7PTE1
С	?	-	PHE	deletion	UNP W7PTE1
С	539	CYS	THR	engineered mutation	UNP W7PTE1
С	1022	CYS	TYR	cloning artifact	UNP W7PTE1

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• Molecule 4 is PHOSPHOAMINOPHOSPHONIC ACID-GUANYLATE ESTER (three-letter code: GNP) (formula: $C_{10}H_{17}N_6O_{13}P_3$).



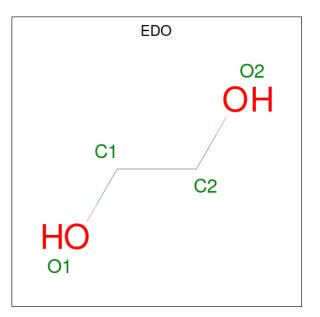


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
4	Δ	1	Total	С	Ν	Ο	Р	0	0
4	A	1	32	10	6	13	3	0	0

• Molecule 5 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total Mg 1 1	0	0

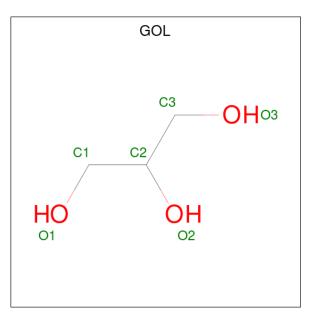
• Molecule 6 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: $C_2H_6O_2$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	А	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0
6	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 4 & 2 & 2 \end{array}$	0	0

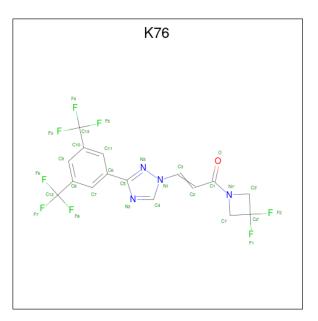
• Molecule 7 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0
7	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
7	С	1	$\begin{array}{ccc} \text{Total} & \text{C} & \text{O} \\ 6 & 3 & 3 \end{array}$	0	0
7	С	1	$\begin{array}{ccc} \text{Total} \text{C} \text{O} \\ 6 3 3 \end{array}$	0	0

• Molecule 8 is (2E)-3-{3-[3,5-bis(trifluoromethyl)phenyl]-1H-1,2,4-triazol-1-yl}-1-(3,3-difluor oazetidin-1-yl)prop-2-en-1-one (three-letter code: K76) (formula: $C_{16}H_{10}F_8N_4O$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
8	С	1	Total 29	C 16	F 8	N 4	0 1	0	0

• Molecule 9 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	С	3	Total Cl 3 3	0	0

• Molecule 10 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
10	А	220	Total O 220 220	0	0
10	В	74	Total O 74 74	0	0
10	С	1075	Total O 1075 1075	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: GTP-binding nuclear protein Ran



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants	105.91Å 105.91 Å 305.53 Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 - 1.80	Depositor
Resolution (A)	46.80 - 1.80	EDS
% Data completeness	99.1 (50.00-1.80)	Depositor
(in resolution range)	99.1 (46.80-1.80)	EDS
R _{merge}	0.07	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.18 (at 1.81 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0049	Depositor
D D.	0.137 , 0.183	Depositor
R, R_{free}	0.145 , 0.190	DCC
R_{free} test set	7989 reflections (5.01%)	wwPDB-VP
Wilson B-factor $(Å^2)$	35.0	Xtriage
Anisotropy	0.242	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.33, 49.1	EDS
L-test for twinning ²	$ \langle L \rangle = 0.49, \langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	12622	wwPDB-VP
Average B, all atoms $(Å^2)$	46.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.43% of the height of the origin peak. No significant pseudotranslation is detected.

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.



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: GNP, K76, MG, CL, GOL, EDO

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		Bo	nd lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.41	0/1764	0.61	0/2388	
2	В	0.37	0/1094	0.59	0/1462	
3	С	0.40	1/8595~(0.0%)	0.55	2/11645~(0.0%)	
All	All	0.40	1/11453~(0.0%)	0.56	2/15495~(0.0%)	

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
3	С	414	PRO	N-CD	5.28	1.55	1.47

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
3	С	376	GLU	C-N-CD	5.28	139.49	128.40
3	С	893	PHE	CB-CA-C	-5.18	100.03	110.40

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	А	1714	0	1724	11	0
2	В	1075	0	1070	2	0

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Mol	Chain	Non-H		H(added)	Clashes	Symm-Clashes
3	С	8367	0	8492	30	0
4	А	32	0	13	0	0
5	А	1	0	0	0	0
6	А	4	0	6	0	0
6	С	4	0	6	0	0
7	А	6	0	8	0	0
7	С	18	0	24	1	0
8	С	29	0	9	0	0
9	С	3	0	0	0	0
10	А	220	0	0	1	0
10	В	74	0	0	1	0
10	С	1075	0	0	7	0
All	All	12622	0	11352	41	0

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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 41 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:A:8:GLN:HG2	1:A:9:VAL:H	1.49	0.77
3:C:686:ASN:HB3	3:C:688:THR:HG22	1.70	0.73
3:C:293[B]:VAL:HG12	3:C:346:TYR:CE2	2.35	0.62
1:A:8:GLN:CG	1:A:9:VAL:H	2.13	0.60
3:C:1007:THR:H	3:C:1010:GLN:HE21	1.50	0.59

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	А	212/216~(98%)	206~(97%)	6 (3%)	0	100	100
2	В	127/140~(91%)	117~(92%)	10 (8%)	0	100	100
3	С	1043/1024~(102%)	1029 (99%)	14 (1%)	0	100	100
All	All	1382/1380~(100%)	1352 (98%)	30 (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	А	186/185~(100%)	184~(99%)	2(1%)	73 68		
2	В	113/121~(93%)	111 (98%)	2(2%)	59 48		
3	С	957/934~(102%)	944 (99%)	13 (1%)	67 59		
All	All	1256/1240~(101%)	1239~(99%)	17 (1%)	69 59		

5 of 17 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	С	940	PHE
3	С	983	GLN
3	С	539	CYS
3	С	607	LYS
3	С	628	ASP

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such side chains are listed below:

Mol	Chain	Res	Type
3	С	434	ASN
3	С	983	GLN
3	С	1010	GLN
1	А	196	GLN
1	А	62	ASN



5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 12 ligands modelled in this entry, 4 are monoatomic - leaving 8 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	Turne	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
IVI01	Type	Ullalli	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	GNP	А	301	5	29,34,34	1.54	5 (17%)	$33,\!54,\!54$	2.09	9 (27%)
6	EDO	А	303	-	3,3,3	0.51	0	2,2,2	0.18	0
7	GOL	С	1102	-	$5,\!5,\!5$	0.44	0	$5,\!5,\!5$	0.36	0
7	GOL	С	1103	-	$5,\!5,\!5$	0.29	0	$5,\!5,\!5$	0.10	0
7	GOL	С	1108	-	$5,\!5,\!5$	0.27	0	$5,\!5,\!5$	0.30	0
8	K76	С	1101	3	29,31,31	1.89	4 (13%)	32,49,49	1.77	4 (12%)
7	GOL	А	304	-	$5,\!5,\!5$	0.87	0	$5,\!5,\!5$	1.01	0
6	EDO	С	1104	-	3,3,3	0.69	0	2,2,2	0.27	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
4	GNP	А	301	5	-	3/14/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	EDO	А	303	-	-	0/1/1/1	-
7	GOL	С	1102	-	-	2/4/4/4	-
7	GOL	С	1103	-	-	2/4/4/4	-
7	GOL	С	1108	-	-	2/4/4/4	-
8	K76	С	1101	3	-	3/21/35/35	0/3/3/3
7	GOL	А	304	-	-	3/4/4/4	-
6	EDO	С	1104	-	-	1/1/1/1	-

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The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	С	1101	K76	C3-C2	8.30	1.52	1.32
4	А	301	GNP	C5-C6	3.92	1.48	1.41
4	А	301	GNP	PG-N3B	3.22	1.71	1.63
8	С	1101	K76	F2-C2'	-3.22	1.32	1.38
8	С	1101	K76	F1-C2'	-3.10	1.32	1.38

The worst 5 of 13 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
8	С	1101	K76	N3-C5-N2	-7.12	108.81	114.72
4	А	301	GNP	O1G-PG-N3B	-4.91	104.54	111.77
4	А	301	GNP	C4-C5-C6	-4.60	116.41	120.80
4	А	301	GNP	C2-N3-C4	4.54	120.54	115.36
4	А	301	GNP	C5-C6-N1	-3.89	118.11	123.43

There are no chirality outliers.

5 of 16 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	А	301	GNP	PG-N3B-PB-O1B
4	А	301	GNP	PA-O3A-PB-O1B
4	А	301	GNP	PA-O3A-PB-O2B
7	А	304	GOL	C1-C2-C3-O3
7	С	1103	GOL	C1-C2-C3-O3

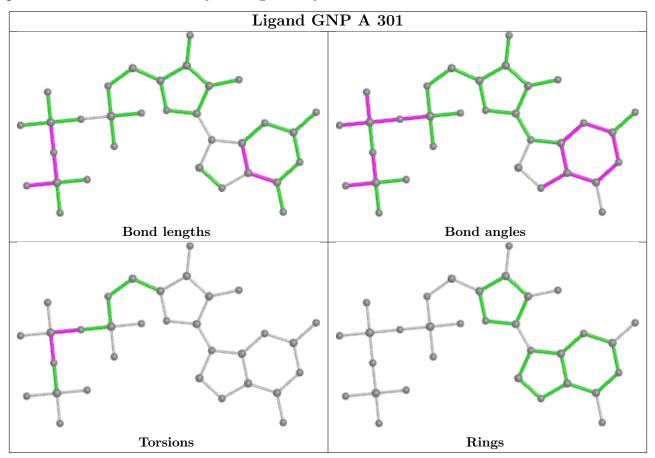
There are no ring outliers.

1 monomer is involved in 1 short contact:

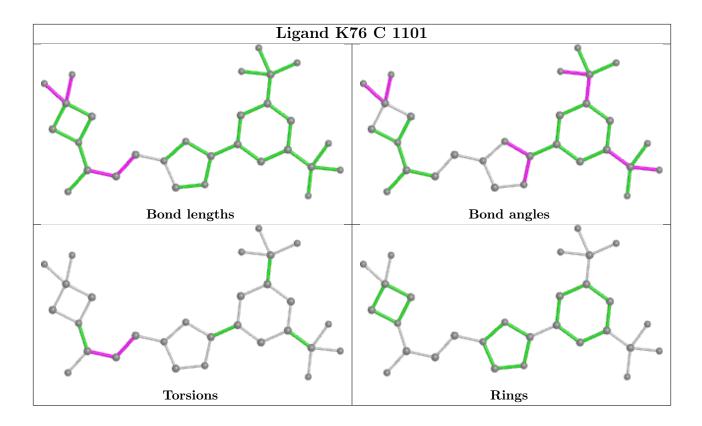


Mol	Chain	Res	Type	Clashes	Symm-Clashes
7	С	1103	GOL	1	0

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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	209/216~(96%)	-0.23	12 (5%) 23 19	27, 38, 89, 101	0
2	В	130/140~(92%)	-0.32	9 (6%) 16 13	39, 50, 85, 98	0
3	С	1017/1024~(99%)	-0.54	21 (2%) 63 59	27, 40, 71, 138	0
All	All	1356/1380~(98%)	-0.47	42 (3%) 49 43	27, 42, 74, 138	0

The worst 5 of 42 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	63	ILE	6.7
1	А	197	TYR	6.1
2	В	79	MET	6.0
2	В	64	HIS	6.0
2	В	69	VAL	5.9

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)

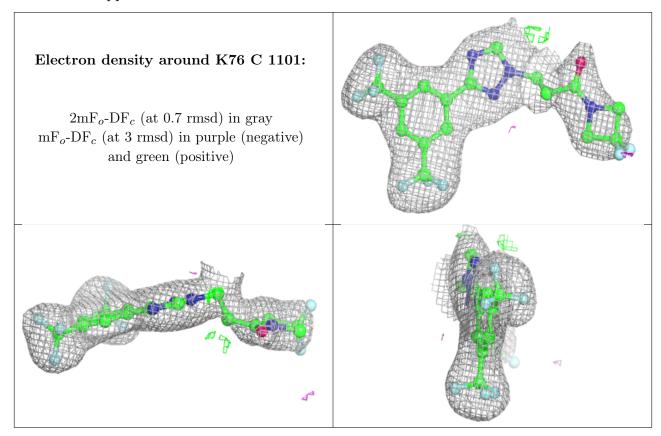
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.



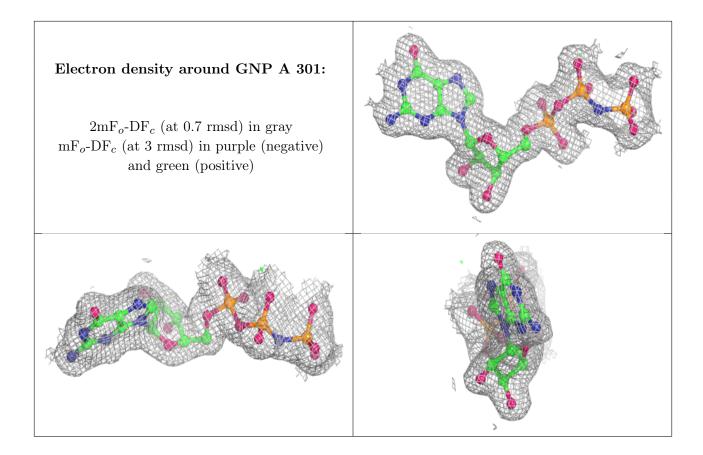
4V	VV	Έ
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B -factors($Å^2$)	Q<0.9
6	EDO	С	1104	4/4	0.83	0.20	58,73,81,87	0
7	GOL	С	1102	6/6	0.84	0.25	74,83,92,109	0
7	GOL	А	304	6/6	0.88	0.22	41,47,51,52	0
6	EDO	А	303	4/4	0.95	0.22	56,60,66,72	0
7	GOL	С	1108	6/6	0.95	0.27	53,54,54,60	0
7	GOL	С	1103	6/6	0.96	0.08	49,55,65,71	0
8	K76	С	1101	29/29	0.97	0.14	42,55,105,123	0
9	CL	С	1105	1/1	0.97	0.03	74,74,74,74	0
9	CL	С	1107	1/1	0.98	0.06	81,81,81,81	0
5	MG	А	302	1/1	0.99	0.04	33,33,33,33	0
9	CL	С	1106	1/1	0.99	0.06	63,63,63,63	0
4	GNP	А	301	32/32	0.99	0.06	29,34,37,40	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.

