

wwPDB X-ray Structure Validation Summary Report (i)

Jun 13, 2022 – 05:25 pm BST

:	7OTE
:	Src Kinase Domain in complex with ponatinib
:	Soriano-Maldonado, P.; Cuesta-Hernandez, H.N.; Plaza-Menacho, I.
	2021-06-10
:	2.49 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:

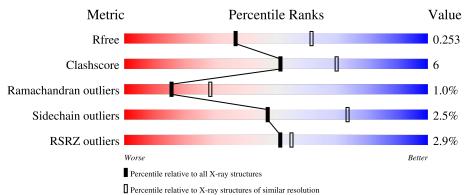
MolProbity		4 021 467
Mogul	:	1.8.4, CSD as 541 be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.28.1
buster-report	:	1.1.7(2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.28.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.49 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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	293	% 7 6%	12%	12%
1	В	293	4% 73%	15%	12%



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 4388 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.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Λ	259	Total	С	Ν	0	\mathbf{S}	0	0	0
	A	239	2080	1333	347	384	16	0	0	0
1	В	259	Total	С	Ν	0	S	0	0	0
	D	239	2080	1333	347	384	16	0	0	0

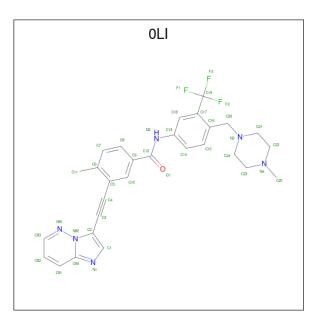
• Molecule 1 is a protein called Proto-oncogene tyrosine-protein kinase Src.

Chain	Residue	Modelled	Actual	Comment	Reference
А	244	HIS	-	expression tag	UNP P12931
А	245	HIS	-	expression tag	UNP P12931
А	246	HIS	-	expression tag	UNP P12931
А	247	HIS	-	expression tag	UNP P12931
A	248	HIS	-	expression tag	UNP P12931
А	249	HIS	-	expression tag	UNP P12931
А	250	GLY	-	expression tag	UNP P12931
А	251	SER	-	expression tag	UNP P12931
А	252	ASP	-	expression tag	UNP P12931
А	253	ILE	-	expression tag	UNP P12931
В	244	HIS	-	expression tag	UNP P12931
В	245	HIS	-	expression tag	UNP P12931
В	246	HIS	-	expression tag	UNP P12931
В	247	HIS	-	expression tag	UNP P12931
В	248	HIS	-	expression tag	UNP P12931
В	249	HIS	-	expression tag	UNP P12931
В	250	GLY	-	expression tag	UNP P12931
В	251	SER	-	expression tag	UNP P12931
В	252	ASP	-	expression tag	UNP P12931
В	253	ILE	-	expression tag	UNP P12931

There are 20 discrepancies between the modelled and reference sequences:

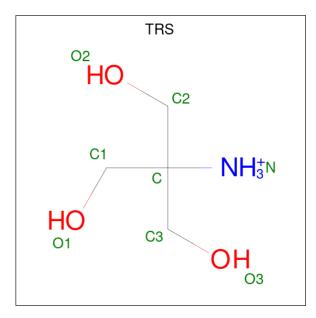
• Molecule 2 is 3-(imidazo[1,2-b]pyridazin-3-ylethynyl)-4-methyl-N-{4-[(4-methylpiperaz in-1-yl)methyl]-3-(trifluoromethyl)phenyl}benzam ide (three-letter code: 0LI) (formula: $C_{29}H_{27}F_3N_6O$) (labeled as "Ligand of Interest" by depositor).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
2	Λ	1	Total	С	F	Ν	0	0	0
	Л	1	39	29	3	6	1	0	0
2	р	1	Total	С	F	Ν	Ο	0	0
2	D	1	39	29	3	6	1	0	0

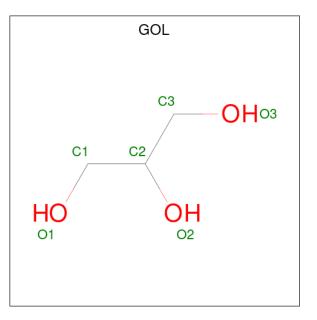
• Molecule 3 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: TRS) (formula: $C_4H_{12}NO_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	А	1	Total 8	С 4	N 1	O 3	0	0



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



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

• Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	А	45	$\begin{array}{ccc} \text{Total} & 0 \\ 45 & 4 \end{array}$) 5	0	0

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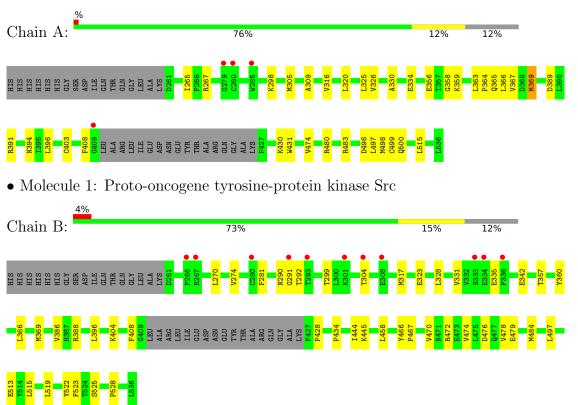
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	В	37	Total O 37 37	0	0



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: Proto-oncogene tyrosine-protein kinase Src



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	42.15Å 124.63Å 63.59Å	Denesiten
a, b, c, α , β , γ	90.00° 90.15° 90.00°	Depositor
Resolution (Å)	63.59 - 2.49	Depositor
Resolution (A)	$63.59 \ - \ 2.49$	EDS
% Data completeness	93.6 (63.59-2.49)	Depositor
(in resolution range)	96.6 (63.59-2.49)	EDS
R _{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.45 (at 2.48 \text{\AA})$	Xtriage
Refinement program	REFMAC 5.8.0189	Depositor
D D	0.175 , 0.252	Depositor
R, R_{free}	0.188 , 0.253	DCC
R_{free} test set	1200 reflections (5.42%)	wwPDB-VP
Wilson B-factor $(Å^2)$	36.7	Xtriage
Anisotropy	0.155	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	(Not available), (Not available)	EDS
L-test for twinning ²	$< L >=0.51, < L^2>=0.34$	Xtriage
Estimated twinning fraction	0.108 for h,-k,-l	Xtriage
Perented twinning fraction	0.615 for H, K, L	Depositor
Reported twinning fraction	0.385 for -h,-k,l	Depositor
Outliers	0 of 22137 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4388	wwPDB-VP
Average B, all atoms $(Å^2)$	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.63% 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: TRS, $0\mathrm{LI},\,\mathrm{GOL}$

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		
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.62	0/2131	0.82	1/2887~(0.0%)	
1	В	0.62	0/2131	0.81	0/2887	
All	All	0.62	0/4262	0.81	1/5774~(0.0%)	

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^{o})$	$Ideal(^{o})$
1	A	483	ARG	NE-CZ-NH2	-5.22	117.69	120.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	А	2080	0	2058	26	0
1	В	2080	0	2058	20	1
2	А	39	0	27	2	0
2	В	39	0	27	3	0
3	А	8	0	12	0	0
4	А	24	0	32	0	0
4	В	36	0	48	0	0
5	А	45	0	0	9	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	В	37	0	0	4	0
All	All	4388	0	4262	48	1

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 6.

The worst 5 of 48 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:366:LEU:N	5:A:701:HOH:O	1.94	1.01
1:A:499:CYS:N	5:A:702:HOH:O	2.05	0.88
1:B:519:LEU:C	5:B:701:HOH:O	2.14	0.85
1:B:519:LEU:O	5:B:701:HOH:O	1.97	0.83
1:A:496:ASP:C	5:A:702:HOH:O	2.19	0.81

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:TYR:OH	$1:B:476:ASP:OD1[1_455]$	2.16	0.04

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	255/293~(87%)	228~(89%)	26 (10%)	1 (0%)	34	54
1	В	255/293~(87%)	230 (90%)	21 (8%)	4 (2%)	9	17
All	All	510/586~(87%)	458 (90%)	47 (9%)	5 (1%)	15	28

All (5) Ramachandran outliers are listed below:



Mol	Chain	Res	Type
1	В	291	GLY
1	В	388	ARG
1	В	428	PRO
1	А	358	GLY
1	В	335	GLU

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	224/252~(89%)	221~(99%)	3(1%)	69 87
1	В	224/252 (89%)	216 (96%)	8 (4%)	35 61
All	All	448/504~(89%)	437~(98%)	11 (2%)	47 73

5 of 11 residues with a non-rotameric sidechain are listed below:

Mol	Chain	\mathbf{Res}	Type
1	В	357	THR
1	В	470	VAL
1	В	525	SER
1	В	513	GLU
1	В	274	VAL

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	Turne	Chain	Res	Link	Bo	ond leng	ths	B	ond ang	gles
NIOI	Type	Unam	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
2	0LI	В	601	-	40,43,43	2.28	6 (15%)	$51,\!62,\!62$	2.09	13 (25%)
4	GOL	А	606	-	$5,\!5,\!5$	0.55	0	$5,\!5,\!5$	0.76	0
4	GOL	В	606	-	$5,\!5,\!5$	0.36	0	$5,\!5,\!5$	0.44	0
4	GOL	А	603	-	$5,\!5,\!5$	0.74	0	$5,\!5,\!5$	0.44	0
4	GOL	В	603	-	$5,\!5,\!5$	0.53	0	$5,\!5,\!5$	0.37	0
4	GOL	В	602	-	$5,\!5,\!5$	0.95	0	$5,\!5,\!5$	0.64	0
4	GOL	А	605	-	$5,\!5,\!5$	0.70	0	$5,\!5,\!5$	1.22	0
3	TRS	А	602	-	7,7,7	0.46	0	$9,\!9,\!9$	0.67	0
4	GOL	В	604	-	$5,\!5,\!5$	0.40	0	$5,\!5,\!5$	0.32	0
4	GOL	В	607	-	$5,\!5,\!5$	0.28	0	$5,\!5,\!5$	0.37	0
2	0LI	А	601	-	40,43,43	2.25	5 (12%)	51,62,62	1.77	11 (21%)
4	GOL	В	605	-	$5,\!5,\!5$	0.48	0	$5,\!5,\!5$	0.31	0
4	GOL	А	604	-	$5,\!5,\!5$	0.29	0	$5,\!5,\!5$	0.46	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	0LI	В	601	-	-	3/20/33/33	0/5/5/5
4	GOL	А	606	-	-	2/4/4/4	-
4	GOL	В	606	-	-	2/4/4/4	-
4	GOL	А	603	-	-	4/4/4/4	-
4	GOL	В	603	-	-	0/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	GOL	В	602	-	-	2/4/4/4	-
4	GOL	А	605	-	-	2/4/4/4	-
3	TRS	А	602	-	-	3/9/9/9	-
4	GOL	В	604	-	-	3/4/4/4	-
4	GOL	В	607	-	-	0/4/4/4	-
2	0LI	А	601	-	-	6/20/33/33	0/5/5/5
4	GOL	В	605	-	-	2/4/4/4	-
4	GOL	А	604	-	-	2/4/4/4	-

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The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\mathrm{Ideal}(\mathrm{\AA})$
2	А	601	0LI	C16-C17	8.59	1.51	1.40
2	В	601	0LI	C5-C4	-7.97	1.29	1.43
2	В	601	0LI	C16-C17	7.30	1.50	1.40
2	А	601	0LI	C5-C4	-7.03	1.31	1.43
2	А	601	0LI	C5-C6	5.21	1.50	1.40

The worst 5 of 24 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	601	0LI	C16-C20-N3	5.75	122.82	112.75
2	А	601	0LI	C21-C22-N4	-5.12	105.02	110.80
2	В	601	0LI	C21-C22-N4	-4.78	105.40	110.80
2	А	601	0LI	C19-C17-C16	4.07	125.78	121.22
2	В	601	0LI	F1-C19-C17	-3.97	105.79	112.70

There are no chirality outliers.

5 of 31 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	А	602	TRS	C1-C-C3-O3
4	А	603	GOL	O1-C1-C2-O2
4	А	603	GOL	O1-C1-C2-C3
4	А	604	GOL	O1-C1-C2-C3
4	А	606	GOL	C1-C2-C3-O3

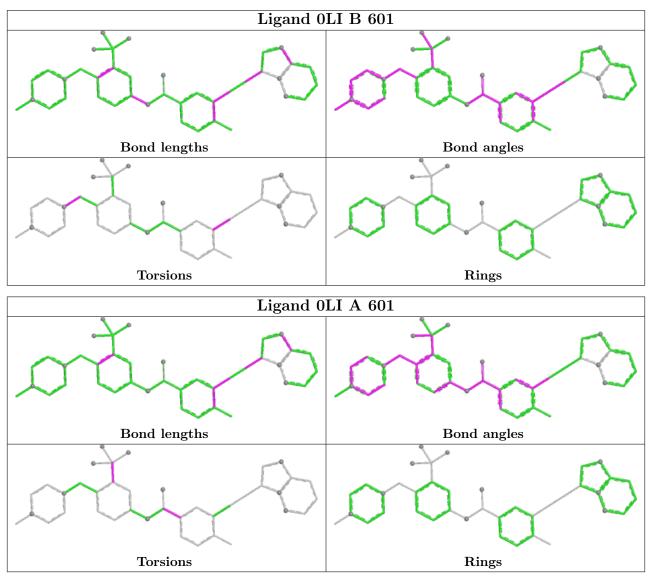
There are no ring outliers.

2 monomers are involved in 5 short contacts:



Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	601	0LI	3	0
2	А	601	0LI	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	$\langle RSRZ \rangle$	# RSRZ > 2	$OWAB(Å^2)$	Q<0.9
1	А	259/293~(88%)	0.00	4 (1%) 73 75	22, 39, 76, 84	0
1	В	259/293~(88%)	0.11	11 (4%) 36 39	21, 39, 85, 102	0
All	All	518/586~(88%)	0.06	15 (2%) 51 55	21, 39, 80, 102	0

The worst 5 of 15 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	280	CYS	4.6
1	В	293	THR	4.2
1	В	308	GLU	4.1
1	В	280	CYS	3.3
1	А	409	GLY	3.3

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.

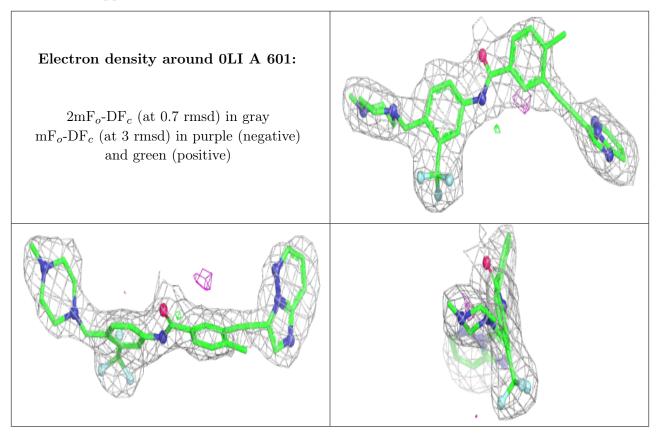
6.4 Ligands (i)

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.

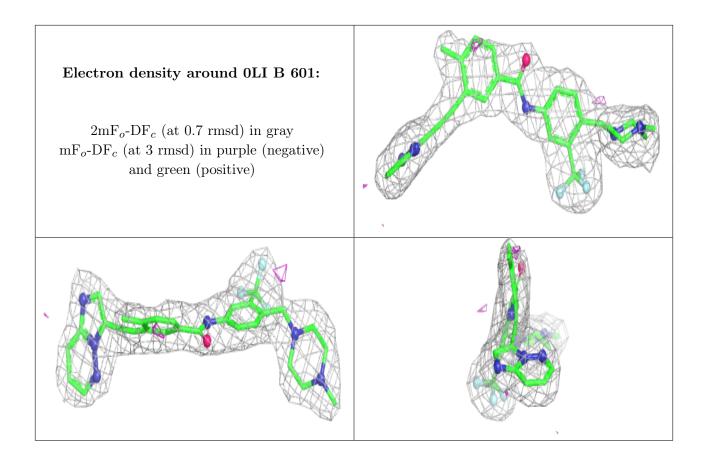


Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	GOL	В	602	6/6	0.78	0.20	38,38,40,41	0
4	GOL	А	603	6/6	0.87	0.14	30,32,35,36	0
4	GOL	В	605	6/6	0.87	0.26	42,52,53,54	0
3	TRS	А	602	8/8	0.88	0.23	$48,\!52,\!53,\!55$	0
4	GOL	В	604	6/6	0.91	0.18	49,51,53,56	0
4	GOL	А	606	6/6	0.92	0.19	43,49,50,56	0
4	GOL	А	604	6/6	0.92	0.22	45,49,50,50	0
4	GOL	В	607	6/6	0.92	0.16	48,50,52,53	0
4	GOL	В	606	6/6	0.93	0.11	44,48,48,50	0
2	0LI	А	601	39/39	0.93	0.23	48,55,67,68	0
2	0LI	В	601	39/39	0.95	0.19	35,40,48,52	0
4	GOL	А	605	6/6	0.96	0.17	27,29,30,30	0
4	GOL	В	603	6/6	0.96	0.10	31,32,32,33	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.

