

Full wwPDB X-ray Structure Validation Report (i)

Feb 21, 2024 – 06:14 pm GMT

PDB ID	:	8AY8
Title	:	X-RAY CRYSTAL STRUCTURE OF THE CsPYL1(V112L, T135L,F137I,
		T153I, V168A)-iSB9-HAB1 TERNARY COMPLEX
Authors	:	Infantes, L.; Albert, A.
Deposited on	:	2022-09-02
Resolution	:	1.78 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

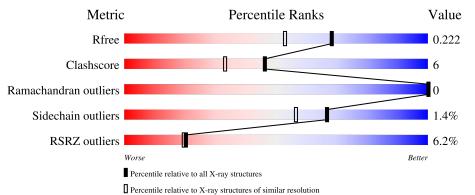
The following versions of software and data (see references (1)) were used in the production of this report:

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 1.78 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	9185 (1.80-1.76)
Clashscore	141614	10184 (1.80-1.76)
Ramachandran outliers	138981	10051 (1.80-1.76)
Sidechain outliers	138945	10050 (1.80-1.76)
RSRZ outliers	127900	9032 (1.80-1.76)

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	209	77%	13%	10%
2	В	333	<mark>6%</mark> 78%	11%	11%

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
7	CL	В	608	-	-	Х	-
7	CL	В	609	-	-	-	Х



2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 4130 atoms, of which 44 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 Abscisic acid receptor PYL1.

Mo	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	A	188	Total 1474	C 917	N 261	O 292	${S \atop 4}$	0	0	0

There are 5 discrepancies between the modelled and reference sequences:

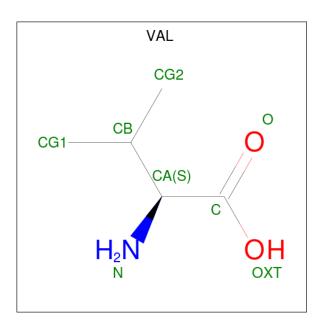
Chain	Residue	Modelled	Actual	Comment	Reference
А	112	LEU	VAL	engineered mutation	
А	135	LEU	THR	engineered mutation	UNP A0A067E666
А	137	ILE	PHE	engineered mutation	UNP A0A067E666
А	153	ILE	THR	engineered mutation	UNP A0A067E666
А	168	ALA	VAL	engineered mutation	UNP A0A067E666

• Molecule 2 is a protein called Protein phosphatase 2C 16.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
2	В	298	Total 2315	C 1458	N 414	O 426	S 17	0	0	0

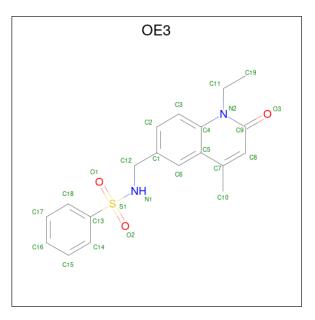
• Molecule 3 is VALINE (three-letter code: VAL) (formula: $C_5H_{11}NO_2$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	А	1	$\begin{array}{cc} \text{Total} & \text{C} \\ 7 & 5 \end{array}$	N 1	0 1	0	0

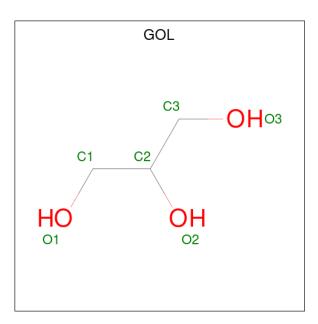
• Molecule 4 is {N}-[(1-ethyl-4-methyl-2-oxidanylidene-quinolin-6-yl)methyl]benzenesulfona mide (three-letter code: OE3) (formula: $C_{19}H_{20}N_2O_3S$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
4	А	1	Total 45	C 19	Н 20			${f S}$ 1	0	0

• Molecule 5 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	А	1	Total C H O 14 3 8 3	0	0
5	В	1	Total C H O 14 3 8 3	0	0
5	В	1	Total C H O 14 3 8 3	0	0

• Molecule 6 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	В	3	Total Mn 3 3	0	0

• Molecule 7 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	В	6	Total Cl 6 6	0	0

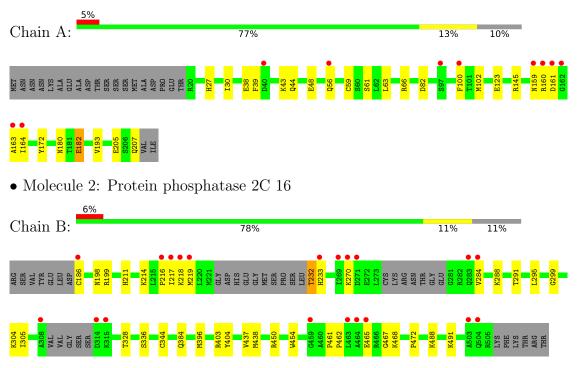
• Molecule 8 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	А	84	Total O 84 84	0	0
8	В	154	Total O 154 154	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: Abscisic acid receptor PYL1



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	42.78Å 62.70Å 187.33Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.83 - 1.78	Depositor
Resolution (A)	46.83 - 1.78	EDS
% Data completeness	99.1 (46.83-1.78)	Depositor
(in resolution range)	99.2(46.83-1.78)	EDS
R _{merge}	0.08	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.23 (at 1.78 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.20_4459	Depositor
D D.	0.193 , 0.226	Depositor
R, R_{free}	0.189 , 0.222	DCC
R_{free} test set	2457 reflections $(5.06%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	32.5	Xtriage
Anisotropy	0.469	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.38 , 49.7	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	0.97	EDS
Total number of atoms	4130	wwPDB-VP
Average B, all atoms $(Å^2)$	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.02% 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: OE3, GOL, CL, MN $\,$

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		Boi	nd lengths	Bond angles	
	Moi Chain		# Z > 5	RMSZ	# Z > 5
1	А	0.35	0/1499	0.59	0/2038
2	В	0.41	1/2358~(0.0%)	0.62	0/3179
All	All	0.39	1/3857~(0.0%)	0.61	0/5217

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	В	344	CYS	CB-SG	-6.22	1.71	1.82

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	А	1474	0	1442	22	0
2	В	2315	0	2303	25	0
3	А	7	0	8	3	0
4	А	25	20	0	1	0
5	А	6	8	8	0	0
5	В	12	16	16	0	0
6	В	3	0	0	0	0
7	В	6	0	0	2	0

Continued on next page...



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	А	84	0	0	0	0
8	В	154	0	0	5	1
All	All	4086	44	3777	48	1

Continued from previous page...

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.

All (48) 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	distance (\AA)	overlap (Å)
7:B:608:CL:CL	8:B:838:HOH:O	2.15	0.99
2:B:216:PRO:HG2	2:B:219:MET:HG3	1.55	0.88
1:A:145:ARG:NH2	1:A:180:ASN:OD1	2.20	0.67
1:A:27:HIS:O	1:A:43:LYS:HE3	1.96	0.66
1:A:38:GLU:OE2	1:A:66:ARG:NH1	2.24	0.66
1:A:160:ARG:HB3	1:A:163:ALA:HB3	1.77	0.66
1:A:160:ARG:O	1:A:160:ARG:HD2	1.96	0.65
1:A:30:ILE:HG12	1:A:39:PHE:CD2	2.35	0.62
2:B:468:LYS:HD2	2:B:468:LYS:N	2.17	0.60
2:B:216:PRO:HD3	2:B:270:LYS:HE2	1.86	0.57
1:A:163:ALA:C	1:A:164:ILE:HD13	2.25	0.57
2:B:437:VAL:HG23	2:B:438:MET:HG3	1.87	0.57
2:B:488:LYS:NZ	8:B:707:HOH:O	2.37	0.57
2:B:216:PRO:HG2	2:B:219:MET:CG	2.33	0.56
1:A:59:CYS:HB3	1:A:182:GLU:HG3	1.88	0.56
1:A:59:CYS:HB3	1:A:182:GLU:CG	2.37	0.54
1:A:163:ALA:O	1:A:164:ILE:HD13	2.09	0.53
2:B:461:PRO:O	8:B:701:HOH:O	2.18	0.53
2:B:299:GLY:HA3	2:B:305:ILE:HD12	1.92	0.51
1:A:82:ASP:OD1	1:A:102:MET:HE1	2.12	0.50
2:B:186:CYS:HB2	2:B:336:SER:HB3	1.93	0.49
2:B:304:LYS:HE3	2:B:403:ARG:HD2	1.94	0.49
1:A:205:GLU:O	3:A:301:VAL:N	2.48	0.47
2:B:199:ARG:HD3	2:B:491:LYS:O	2.14	0.47
2:B:488:LYS:HD3	8:B:730:HOH:O	2.14	0.47
2:B:211:HIS:O	2:B:214:LYS:NZ	2.48	0.47
2:B:467:GLY:C	2:B:468:LYS:HD2	2.35	0.46
2:B:218:LYS:HE2	2:B:218:LYS:H	1.81	0.45
2:B:291:THR:O	2:B:295:LEU:HD13	2.17	0.44
1:A:159:ASN:OD1	1:A:164:ILE:HD11	2.17	0.44
2:B:284:VAL:O	2:B:288:LYS:HG3	2.18	0.44

Continued on next page...



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:SER:HB3	1:A:172:TYR:CE2	2.53	0.43
2:B:384:GLN:OE1	7:B:608:CL:CL	2.73	0.43
1:A:59:CYS:CB	1:A:182:GLU:HG2	2.49	0.43
1:A:44:GLN:O	1:A:48:GLU:HG3	2.19	0.42
2:B:214:LYS:HB3	2:B:233:HIS:ND1	2.34	0.42
2:B:454:TRP:CZ2	2:B:472:PRO:HB2	2.55	0.42
2:B:216:PRO:HB3	2:B:270:LYS:NZ	2.35	0.42
2:B:217:ILE:HG23	2:B:232:THR:C	2.40	0.41
2:B:462:PRO:HD2	2:B:465:GLU:OE1	2.19	0.41
2:B:450:ARG:HD2	8:B:743:HOH:O	2.19	0.41
1:A:207:GLN:C	3:A:301:VAL:HA	2.41	0.41
1:A:123:GLU:OE2	4:A:302:OE3:N1	2.54	0.41
1:A:100:PHE:HZ	1:A:102:MET:HE2	1.87	0.40
1:A:207:GLN:C	3:A:301:VAL:N	2.75	0.40
1:A:63:LEU:HD13	1:A:193:VAL:HG11	2.04	0.40
1:A:59:CYS:CB	1:A:182:GLU:CG	2.99	0.40
2:B:328:THR:HG22	2:B:396:MET:SD	2.61	0.40

Continued from previous page...

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)
8:B:841:HOH:O	8:B:847:HOH:O[4_555]	2.10	0.10

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	Percer	ntiles
1	А	186/209~(89%)	178 (96%)	8 (4%)	0	100	100
2	В	290/333~(87%)	288~(99%)	2(1%)	0	100	100
All	All	476/542~(88%)	466 (98%)	10 (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	168/187~(90%)	165~(98%)	3~(2%)	59 45
2	В	246/279~(88%)	243~(99%)	3 (1%)	71 62
All	All	414/466~(89%)	408 (99%)	6 (1%)	67 56

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	56	GLN
1	А	161	ASP
1	А	182	GLU
2	В	198	ASN
2	В	232	THR
2	В	404	TYR

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)

Of 14 ligands modelled in this entry, 9 are monoatomic - leaving 5 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	Chain Res Link		Bond lengths			Bond angles		
	Type	Chain	nes		Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
3	VAL	А	301	-	4,6,7	0.59	0	6,7,9	0.77	0
5	GOL	В	611	-	$5,\!5,\!5$	0.67	0	$5,\!5,\!5$	0.99	0
4	OE3	А	302	-	$27,\!27,\!27$	0.29	0	36,39,39	0.32	0
5	GOL	В	610	-	$5,\!5,\!5$	1.50	1 (20%)	$5,\!5,\!5$	0.96	0
5	GOL	А	303	-	$5,\!5,\!5$	0.79	0	$5,\!5,\!5$	1.01	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
3	VAL	А	301	-	-	0/5/6/8	-
5	GOL	В	611	-	-	2/4/4/4	-
4	OE3	А	302	-	-	0/14/14/14	0/3/3/3
5	GOL	В	610	-	-	4/4/4/4	-
5	GOL	А	303	-	-	4/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	В	610	GOL	O3-C3	2.12	1.51	1.42

There are no bond angle outliers.

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms				
5	А	303	GOL	O1-C1-C2-C3				
Continued on next page								

PROTEIN DATA BANK

Mol	Chain	Res	Type	Atoms
5	А	303	GOL	C1-C2-C3-O3
5	В	610	GOL	O1-C1-C2-C3
5	В	610	GOL	C1-C2-C3-O3
5	В	610	GOL	O1-C1-C2-O2
5	В	610	GOL	O2-C2-C3-O3
5	В	611	GOL	O1-C1-C2-C3
5	В	611	GOL	O2-C2-C3-O3
5	А	303	GOL	O1-C1-C2-O2
5	А	303	GOL	O2-C2-C3-O3

Continued from previous page...

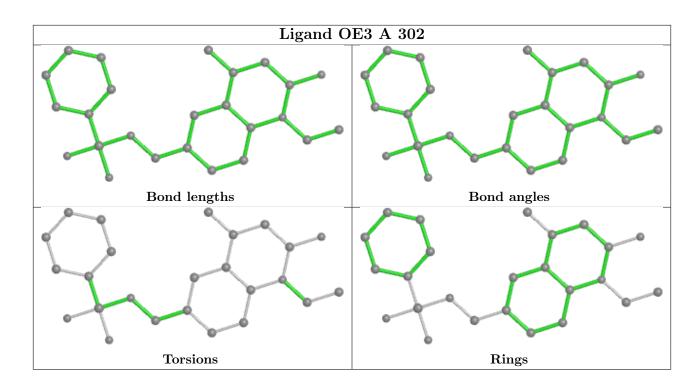
There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	301	VAL	3	0
4	А	302	OE3	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 sufficient 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		$\mathbf{OWAB}(\mathbf{\AA}^2)$	Q < 0.9
1	А	188/209~(89%)	0.33	10 (5%) 2	26 25	29, 40, 64, 103	0
2	В	298/333~(89%)	0.57	20 (6%) 1	17 17	19, 33, 72, 110	0
All	All	486/542~(89%)	0.47	30 (6%) 2	20 19	19, 36, 70, 110	0

All (30) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	В	269	ILE	6.1
2	В	271	ASP	5.4
2	В	233	HIS	4.6
1	А	160	ARG	4.5
2	В	217	ILE	4.5
1	А	162	GLY	4.4
1	А	163	ALA	4.4
1	А	97	SER	4.4
1	А	161	ASP	4.3
2	В	284	VAL	4.3
2	В	314	ASP	3.7
1	А	100	PHE	3.7
2	В	464	ALA	3.5
2	В	308	ALA	3.5
1	А	164	ILE	3.3
2	В	216	PRO	2.8
2	В	459	GLY	2.7
1	А	56	GLN	2.7
1	А	40	ASP	2.6
2	В	186	CYS	2.6
2	В	283	GLN	2.6
2	В	465	GLU	2.5
2	В	219	MET	2.5
2	В	503	ALA	2.4

Continued on next page...



Continued from previous page...

Mol	Chain	Res	Type	RSRZ
2	В	218	LYS	2.4
2	В	270	LYS	2.3
2	В	504	GLN	2.3
1	А	159	ASN	2.2
2	В	463	LEU	2.1
2	В	315	LYS	2.1

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)

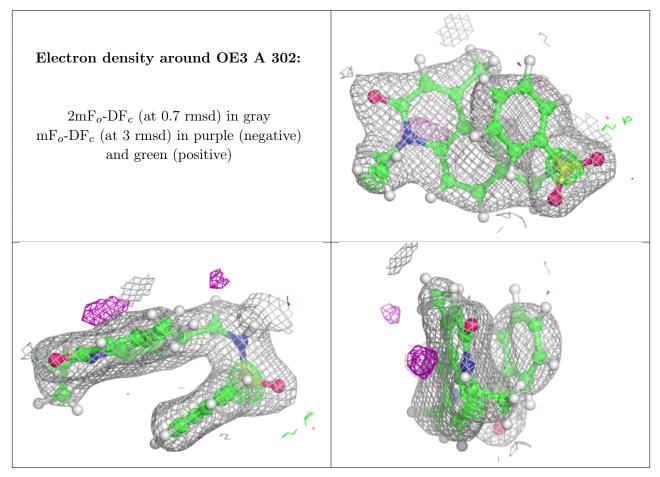
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' 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
5	GOL	В	610	6/6	0.70	0.15	$36,\!43,\!51,\!51$	0
3	VAL	А	301	7/8	0.73	0.29	$62,\!65,\!72,\!85$	0
7	CL	В	609	1/1	0.76	0.53	96,96,96,96	0
5	GOL	А	303	6/6	0.78	0.18	54,65,74,74	0
5	GOL	В	611	6/6	0.80	0.15	58,69,74,76	0
6	MN	В	601	1/1	0.81	0.50	$115,\!115,\!115,\!115$	0
7	CL	В	608	1/1	0.83	0.23	79,79,79,79	0
7	CL	В	606	1/1	0.87	0.16	66,66,66,66	0
4	OE3	А	302	25/25	0.94	0.11	29,38,49,66	0
7	CL	В	604	1/1	0.95	0.07	49,49,49,49	0
7	CL	В	605	1/1	0.97	0.08	44,44,44,44	0
7	CL	В	607	1/1	0.97	0.07	36,36,36,36	0
6	MN	В	603	1/1	0.98	0.04	42,42,42,42	0
6	MN	В	602	1/1	1.00	0.09	32,32,32,32	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.

