

Full wwPDB X-ray Structure Validation Report (i)

Dec 9, 2024 - 04:04 PM EST

PDB ID	:	8VCO
Title	:	Crystal structure of rMcL-1 in complex with N-acetyl-D-galactosamine
Authors	:	Hernandez-Santoyo, A.; Loera-Rubalcava, J.
Deposited on		
Resolution	:	1.66 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:

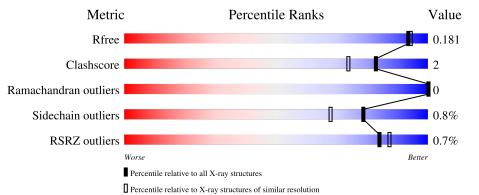
Xtriage (Phenix)	: :	
CCP4	: :	20231227.v01 (using entries in the PDB archive December 27th 2023) 9.0.004 (Gargrove)
Density-Fitness Ideal geometry (proteins) Ideal geometry (DNA, RNA) Validation Pipeline (wwPDB-VP)	:	Engh & Huber (2001)

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 1.66 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}	164625	2328 (1.66-1.66)
Clashscore	180529	2515(1.66-1.66)
Ramachandran outliers	177936	2475 (1.66-1.66)
Sidechain outliers	177891	2475 (1.66-1.66)
RSRZ outliers	164620	2328 (1.66-1.66)

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	152	% 91%	7% •				
1	В	152	% 95%	• •				



2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 2837 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 Galactose-binding lectin.

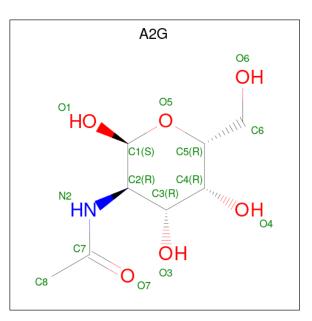
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Δ	150	Total	С	Ν	Ο	\mathbf{S}	0	5	Ο
1	11	100	1225	786	219	214	6	0		0
1	Р	150	Total	С	Ν	Ο	\mathbf{S}	0	1	0
	D	150	1206	771	216	213	6	0		0

Chain	Residue	Modelled	Actual	Comment	Reference
А	-1	GLY	-	expression tag	UNP A0A0P0E482
А	0	HIS	-	expression tag	UNP A0A0P0E482
А	107	ILE	VAL	variant	UNP A0A0P0E482
А	130	LYS	GLY	variant	UNP A0A0P0E482
А	141	ASP	ASN	variant	UNP A0A0P0E482
В	-1	GLY	-	expression tag	UNP A0A0P0E482
В	0	HIS	-	expression tag	UNP A0A0P0E482
В	107	ILE	VAL	variant	UNP A0A0P0E482
В	130	LYS	GLY	variant	UNP A0A0P0E482
В	141	ASP	ASN	variant	UNP A0A0P0E482

There are 10 discrepancies between the modelled and reference sequences:

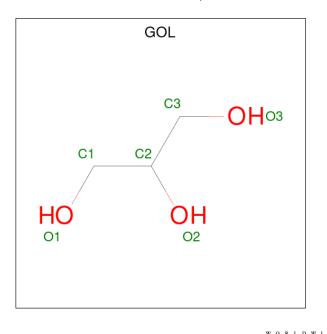
• Molecule 2 is 2-acetamido-2-deoxy-alpha-D-galactopyranose (three-letter code: A2G) (formula: C₈H₁₅NO₆) (labeled as "Ligand of Interest" by depositor).





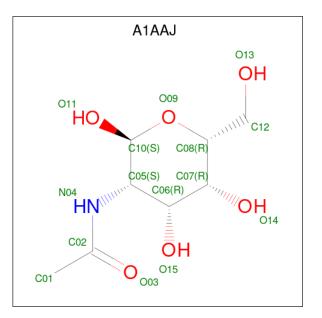
Chain	Residues	Atoms	ZeroOcc	AltConf
А	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{N} & \text{O} \\ 15 & 8 & 1 & 6 \end{array}$	0	0
А	1	Total C N O	0	0
	1			
В	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0	0
В	1	$\begin{array}{cccc} \text{Total} & \text{C} & \text{N} & \text{O} \\ 15 & 8 & 1 & 6 \end{array}$	0	0
В	1	Total C N O	0	0
	A A B B	A 1 A 1 B 1 B 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

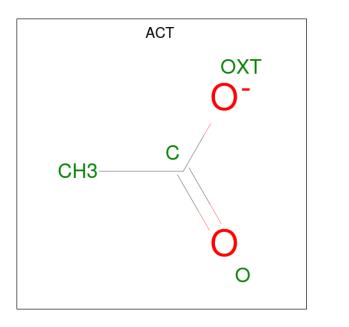
• Molecule 4 is N-Acetyl-D-Talosamine (three-letter code: A1AAJ) (formula: $C_8H_{15}NO_6$) (labeled as "Ligand of Interest" by depositor).



Mo	Chai	n	Residues	Atoms				ZeroOcc	AltConf
4	А		1	Total 15	C 8	N 1	O 6	0	0

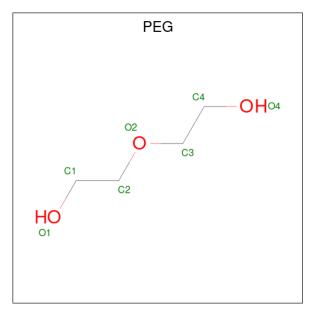
• Molecule 5 is ACETATE ION (three-letter code: ACT) (formula: $C_2H_3O_2$).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	В	1	Total 4	${ m C} 2$	O 2	0	0

• Molecule 6 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	В	1	Total 7	С 4	O 3	0	0

• Molecule 7 is water.



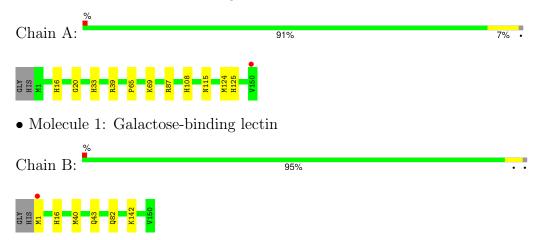
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	А	130	Total O 130 130	0	0
7	В	133	Total O 133 133	0	0



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: Galactose-binding lectin





4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor
Resolution (Å)	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor EDS
% Data completeness (in resolution range)	99.6 (34.11-1.66) 99.6 (34.11-1.66)	Depositor EDS
R _{merge}	0.05	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.06 (at 1.66 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.21rc1_5156	Depositor
R, R_{free}	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	Depositor DCC
R_{free} test set	35888 reflections (4.99%)	wwPDB-VP
Wilson B-factor $(Å^2)$	12.3	Xtriage
Anisotropy	0.495	Xtriage
Bulk solvent $k_{sol}(e/Å^3), B_{sol}(Å^2)$	0.39, 47.9	EDS
L-test for twinning ²	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.019 for l,-k,h	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	2837	wwPDB-VP
Average B, all atoms $(Å^2)$	14.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.61% 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: A2G, A1AAJ, ACT, GOL, 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		lengths	Bond	angles
		RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.67	0/1275	0.78	0/1717
1	В	0.73	0/1244	0.85	0/1676
All	All	0.70	0/2519	0.81	0/3393

There are no bond length outliers.

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	1225	0	1229	6	0
1	В	1206	0	1195	5	0
2	А	30	0	24	0	0
2	В	45	0	36	0	0
3	А	18	0	24	0	0
3	В	24	0	32	0	0
4	А	15	0	0	0	0
5	В	4	0	3	0	0
6	В	7	0	10	2	0
7	А	130	0	0	2	0
7	В	133	0	0	0	0
All	All	2837	0	2553	12	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 2.

All (12) 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:1:MET:HG3	1:B:43:GLN:NE2	1.93	0.83
1:B:82:GLN:O	6:B:209:PEG:H42	1.96	0.65
1:B:1:MET:HG3	1:B:43:GLN:HE21	1.63	0.61
1:A:20:GLY:O	1:A:39:ARG:HD2	2.06	0.55
1:A:65:PRO:HB3	1:A:124[A]:MET:SD	2.51	0.51
1:A:69:LYS:HG2	7:A:425:HOH:O	2.14	0.48
1:B:1:MET:O	1:B:1:MET:HG2	2.13	0.48
1:B:16:HIS:CE1	1:B:40:MET:HG2	2.49	0.47
6:B:209:PEG:H22	6:B:209:PEG:H41	1.81	0.43
1:A:108:HIS:CD2	1:A:125:HIS:HB3	2.54	0.42
1:A:16:HIS:CD2	1:A:33:HIS:HB3	2.54	0.41
1:A:115[A]:ASN:ND2	7:A:308:HOH:O	2.53	0.40

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	Percer	ntiles
1	А	153/152~(101%)	150 (98%)	3~(2%)	0	100	100
1	В	149/152~(98%)	144 (97%)	5(3%)	0	100	100
All	All	302/304~(99%)	294 (97%)	8 (3%)	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	Analysed Rotameric Outliers		Percentiles		
1	А	134/131~(102%)	133~(99%)	1 (1%)	81 71		
1	В	131/131 (100%)	130 (99%)	1 (1%)	79 68		
All	All	265/262~(101%)	263~(99%)	2(1%)	79 68		

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	А	87	ARG
1	В	142	LYS

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

Mol	Chain	Res	Type
1	В	43	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)

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

15 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	Trme	Chain	Res	Link	Bo	ond leng	ths	В	ond ang	les
IVIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z >2
3	GOL	В	207	-	$5,\!5,\!5$	0.35	0	$5,\!5,\!5$	0.48	0
2	A2G	А	201	-	$15,\!15,\!15$	0.25	0	21,21,21	0.93	1 (4%)
3	GOL	В	205	-	$5,\!5,\!5$	0.23	0	$5,\!5,\!5$	0.66	0
5	ACT	В	208	-	$3,\!3,\!3$	0.86	0	$3,\!3,\!3$	0.78	0
2	A2G	В	201	-	$15,\!15,\!15$	0.49	0	21,21,21	1.75	3 (14%)
3	GOL	А	205	-	$5,\!5,\!5$	0.22	0	$5,\!5,\!5$	1.22	0
2	A2G	А	202	-	$15,\!15,\!15$	0.21	0	21,21,21	1.00	1 (4%)
6	PEG	В	209	-	$6,\!6,\!6$	0.16	0	$5,\!5,\!5$	0.18	0
2	A2G	В	202	-	$15,\!15,\!15$	0.76	0	21,21,21	1.98	1 (4%)
3	GOL	В	204	-	$5,\!5,\!5$	0.30	0	$5,\!5,\!5$	0.87	0
3	GOL	А	203	-	$5,\!5,\!5$	0.38	0	$5,\!5,\!5$	0.68	0
4	A1AAJ	А	206	-	$15,\!15,\!15$	1.60	4 (26%)	21,21,21	1.25	1 (4%)
3	GOL	В	206	-	$5,\!5,\!5$	0.37	0	$5,\!5,\!5$	0.85	0
3	GOL	А	204	-	$5,\!5,\!5$	0.41	0	$5,\!5,\!5$	0.49	0
2	A2G	В	203	-	$15,\!15,\!15$	0.62	0	21,21,21	1.72	4 (19%)

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	GOL	В	207	-	-	2/4/4/4	-
2	A2G	А	201	-	-	3/6/26/26	0/1/1/1
3	GOL	В	205	-	-	2/4/4/4	-
2	A2G	В	201	-	-	2/6/26/26	0/1/1/1
3	GOL	А	205	-	-	3/4/4/4	-
2	A2G	А	202	-	-	3/6/26/26	0/1/1/1
6	PEG	В	209	-	-	4/4/4/4	-
2	A2G	В	202	-	-	0/6/26/26	0/1/1/1
3	GOL	В	204	-	-	4/4/4/4	-
3	GOL	А	203	-	-	2/4/4/4	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	A1AAJ	А	206	-	-	0/6/26/26	0/1/1/1
3	GOL	В	206	-	-	2/4/4/4	-
3	GOL	А	204	-	-	2/4/4/4	-
2	A2G	В	203	-	-	0/6/26/26	0/1/1/1

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All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	А	206	A1AAJ	C02-N04	3.54	1.45	1.34
4	А	206	A1AAJ	C06-C05	-3.13	1.47	1.53
4	А	206	A1AAJ	O03-C02	-2.32	1.18	1.23
4	А	206	A1AAJ	C07-C06	-2.04	1.47	1.52

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	В	202	A2G	O5-C1-C2	7.35	116.90	109.52
2	В	201	A2G	O5-C1-C2	5.44	114.98	109.52
2	В	203	A2G	O5-C1-C2	4.57	114.11	109.52
2	А	202	A2G	C1-C2-N2	3.97	115.33	110.73
2	А	201	A2G	O5-C1-C2	3.72	113.25	109.52
2	В	203	A2G	C1-C2-N2	-3.67	106.47	110.73
4	А	206	A1AAJ	O09-C10-C05	3.61	113.14	109.52
2	В	201	A2G	C1-C2-N2	-3.40	106.79	110.73
2	В	201	A2G	C2-N2-C7	2.61	129.21	123.11
2	В	203	A2G	C3-C4-C5	-2.21	106.23	110.23
2	В	203	A2G	O4-C4-C3	-2.02	105.61	110.38

There are no chirality outliers.

All (29) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	А	201	A2G	C3-C2-N2-C7
2	А	201	A2G	O7-C7-N2-C2
2	А	201	A2G	C8-C7-N2-C2
2	А	202	A2G	C1-C2-N2-C7
3	А	204	GOL	C1-C2-C3-O3
3	А	205	GOL	O1-C1-C2-C3
3	В	204	GOL	O2-C2-C3-O3
3	В	206	GOL	O1-C1-C2-C3
2	А	202	A2G	C8-C7-N2-C2

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	Continuea from previous page									
Mol	Chain	Res	Type	Atoms						
2	А	202	A2G	O7-C7-N2-C2						
3	В	207	GOL	O1-C1-C2-O2						
2	В	201	A2G	C3-C2-N2-C7						
3	А	203	GOL	C1-C2-C3-O3						
3	А	205	GOL	C1-C2-C3-O3						
3	В	204	GOL	O1-C1-C2-C3						
3	В	204	GOL	C1-C2-C3-O3						
3	В	205	GOL	O1-C1-C2-C3						
3	В	207	GOL	O1-C1-C2-C3						
3	А	203	GOL	O2-C2-C3-O3						
3	А	204	GOL	O2-C2-C3-O3						
3	В	205	GOL	O1-C1-C2-O2						
3	В	206	GOL	O1-C1-C2-O2						
3	А	205	GOL	O2-C2-C3-O3						
3	В	204	GOL	O1-C1-C2-O2						
6	В	209	PEG	O1-C1-C2-O2						
2	В	201	A2G	C1-C2-N2-C7						
6	В	209	PEG	C1-C2-O2-C3						
6	В	209	PEG	O2-C3-C4-O4						
6	В	209	PEG	C4-C3-O2-C2						

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There are no ring outliers.

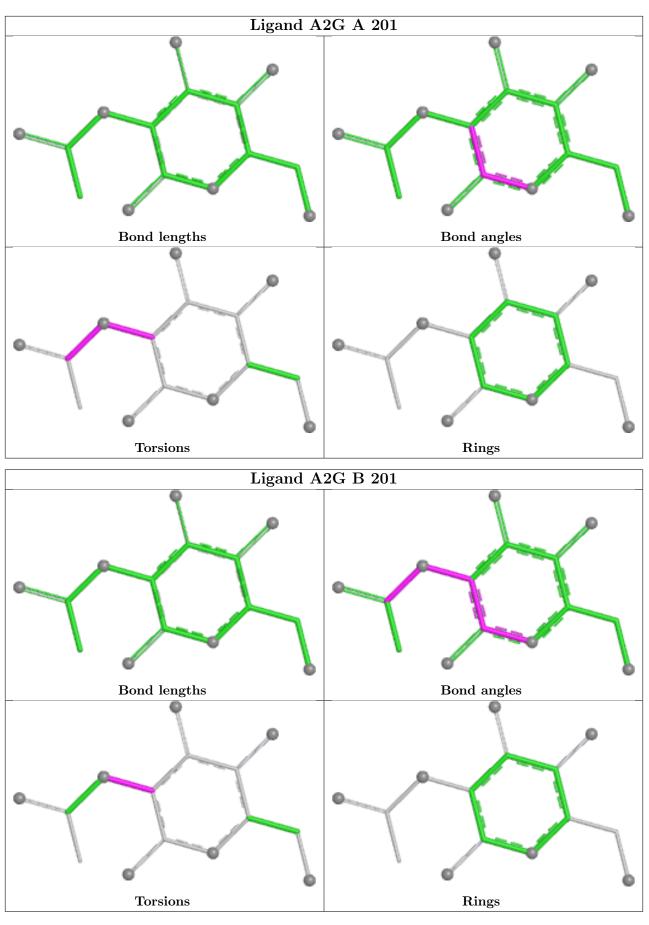
1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	В	209	PEG	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.

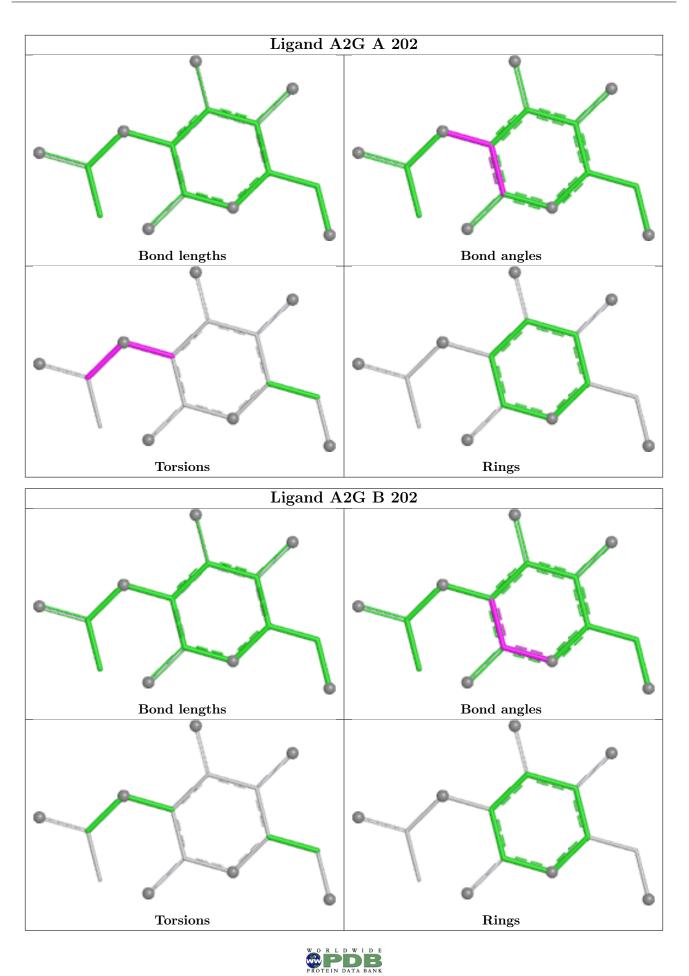


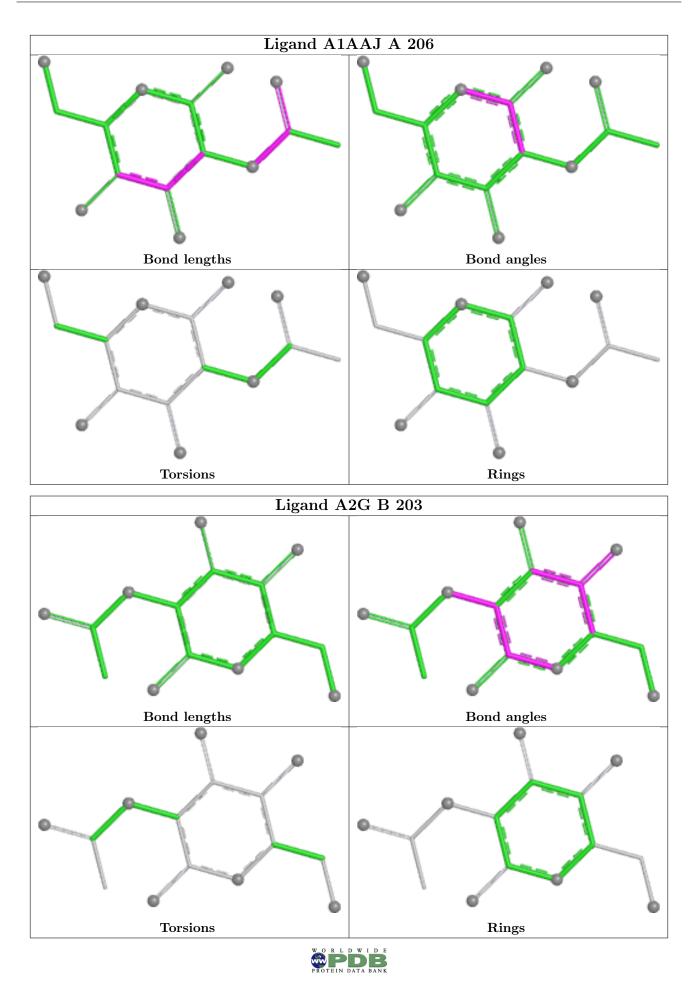












5.7 Other polymers (i)

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	150/152~(98%)	-0.57	1 (0%) 84 87	4, 13, 22, 39	5 (3%)
1	В	150/152~(98%)	-0.75	1 (0%) 84 87	4, 10, 19, 49	1 (0%)
All	All	300/304~(98%)	-0.66	2 (0%) 84 87	4, 11, 22, 49	6 (2%)

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	А	150	VAL	2.2
1	В	1	MET	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	$\mathbf{B} ext{-factors}(\mathbf{\AA}^2)$	Q<0.9
5	ACT	В	208	4/4	0.70	0.16	35,39,48,54	0
3	GOL	В	204	6/6	0.73	0.15	28,37,40,43	0
3	GOL	А	205	6/6	0.73	0.16	29,39,40,42	0

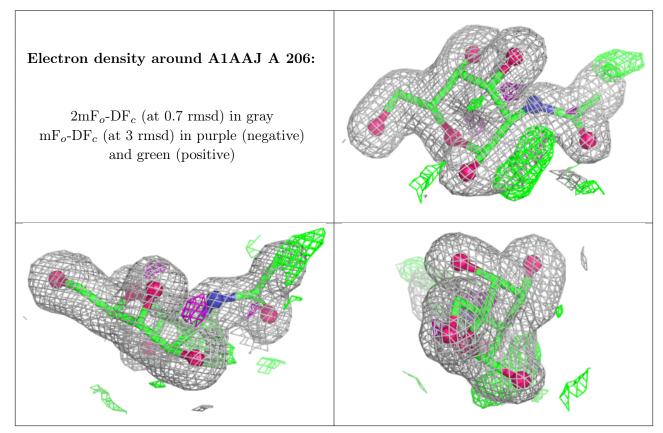
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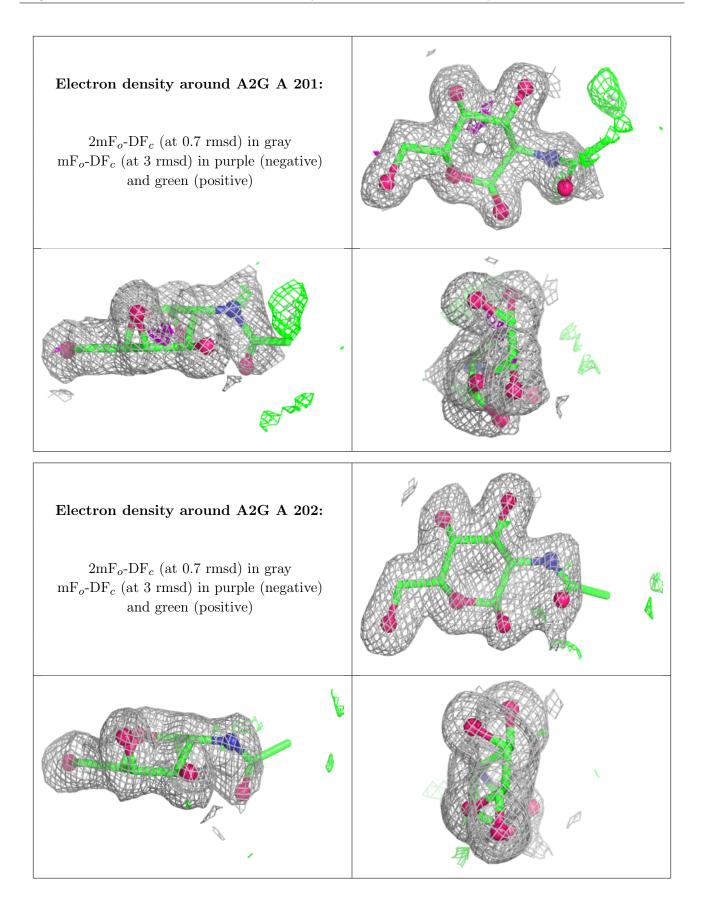
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	GOL	В	207	6/6	0.79	0.12	31,42,44,45	0
3	GOL	В	206	6/6	0.83	0.12	31,32,36,47	0
6	PEG	В	209	7/7	0.84	0.14	19,30,46,51	0
3	GOL	А	203	6/6	0.86	0.11	28,30,31,42	0
3	GOL	А	204	6/6	0.87	0.09	27,32,40,47	0
3	GOL	В	205	6/6	0.88	0.12	18,30,32,33	0
4	A1AAJ	А	206	15/15	0.91	0.09	12,17,24,27	0
2	A2G	А	201	15/15	0.93	0.10	14,21,47,48	0
2	A2G	А	202	15/15	0.95	0.09	16,20,47,47	0
2	A2G	В	202	15/15	0.96	0.08	8,13,42,46	0
2	A2G	В	203	15/15	0.96	0.08	11,15,45,46	0
2	A2G	В	201	15/15	0.97	0.08	10,14,43,51	0

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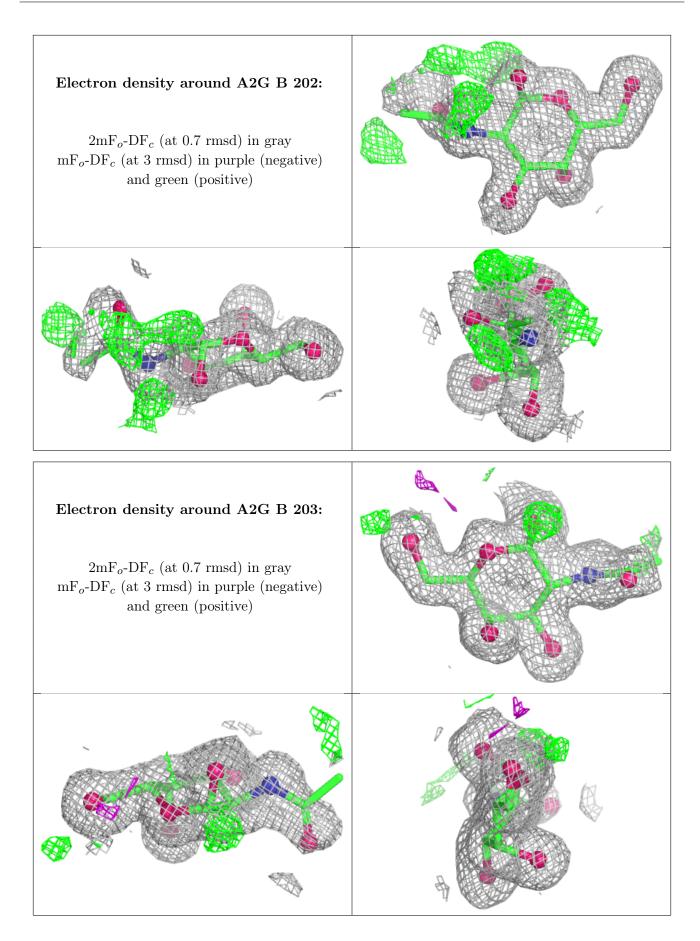
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



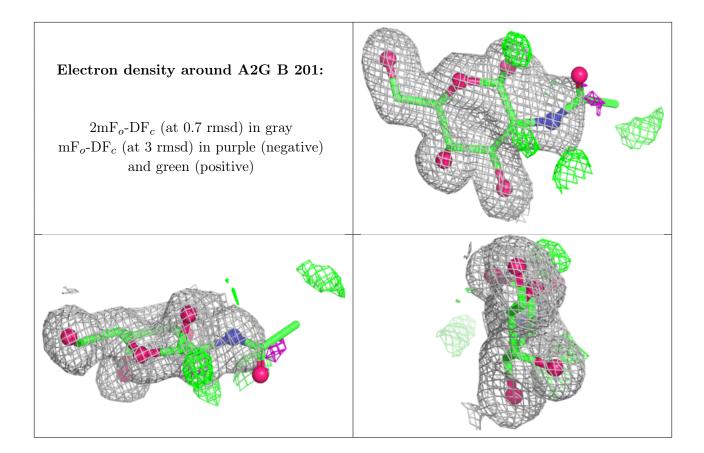












6.5 Other polymers (i)

There are no such residues in this entry.

