Full wwPDB X-ray Structure Validation Report (i)

Dec 22, 2025 – 06:25 PM JST

PDB ID	:	9X2V / pdb_00009x2v
Title	:	GSK3beta complexed with BiS-3
Authors	:	Haslboeck, S.; Vinogradov, A.; Okada, C.; Aikawa, H.; Suga, H.; Sengoku, T.
Deposited on	:	2025-10-08
Resolution	:	1.39 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 (i)) were used in the production of this report:

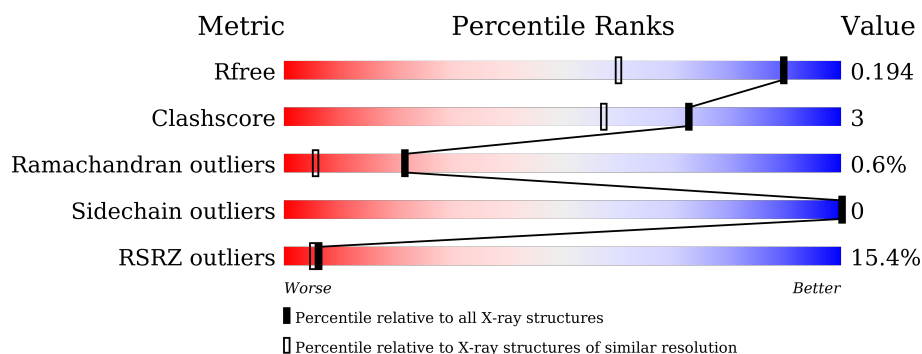|		
MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.011 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.47

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 1.39 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	Percentile Ranks	Value
Rfree		0.194
Clashscore		3
Ramachandran outliers		0.6%
Sidechain outliers		0
RSRZ outliers		15.4%

Worse   *Better*

▌ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R$_{free}$	164625	2247 (1.40-1.40)
Clashscore	180529	2446 (1.40-1.40)
Ramachandran outliers	177936	2398 (1.40-1.40)
Sidechain outliers	177891	2397 (1.40-1.40)
RSRZ outliers	164620	2246 (1.40-1.40)

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	A	359	15% ... 92% ...
2	B	15	13% ... 80% 20%

2 Entry composition ⓘ

There are 5 unique types of molecules in this entry. The entry contains 3259 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 Glycogen synthase kinase-3 beta.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	347	Total 2797	C 1795	N 480	O 509	S 13	0	3	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	25	GLY	-	expression tag	UNP P49841
A	26	PRO	-	expression tag	UNP P49841

- Molecule 2 is a protein called BiS-3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	15	Total 145	C 93	N 32	O 19	S 1	0	0	1

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Cl 1	0	0

- Molecule 4 is 1-(2-METHOXY-ETHOXY)-2-{2-[2-(2-METHOXY-ETHOXY]-ETHOXY}-ETHANE (CCD ID: PG6) (formula: $C_{12}H_{26}O_6$).
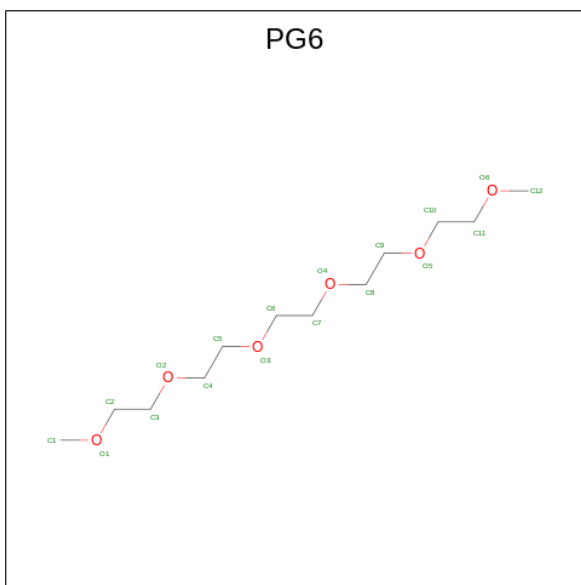
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 18	C 12	O 6	0	0

• Molecule 5 is water.

| Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	285	Total 285	O 285	0	0
5	B	13	Total 13	O 13	0	0

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: Glycogen synthase kinase-3 beta

Chain A:

• Molecule 2: BiS-3

Chain B:
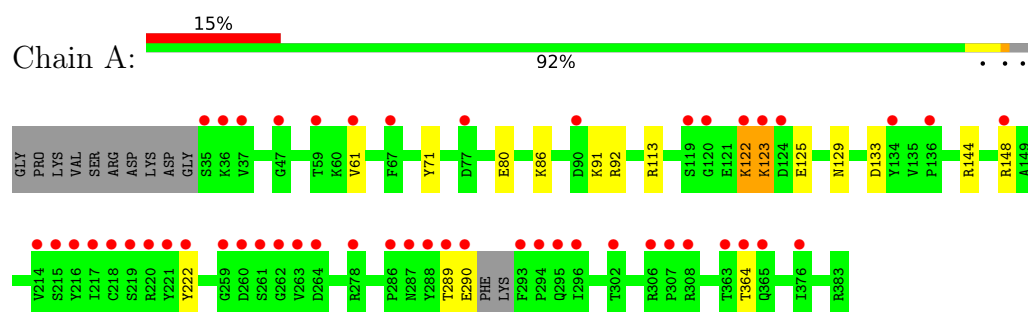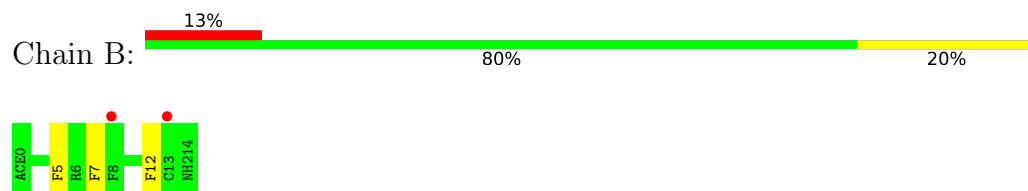
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	64.35Å 75.31Å 85.61Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.92 – 1.39 48.92 – 1.39	Depositor EDS
% Data completeness (in resolution range)	99.9 (48.92-1.39) 99.9 (48.92-1.39)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.59 (at 1.39Å)	Xtriage
Refinement program	PHENIX (1.21.1_5286: ???)	Depositor
R, R_{free}	0.179 , 0.195 0.180 , 0.194	Depositor DCC
R_{free} test set	2000 reflections (2.37%)	wwPDB-VP
Wilson B-factor (Å^2)	19.8	Xtriage
Anisotropy	0.255	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 34.6	EDS
L-test for twinning[2]	$< |L| > = 0.50, < L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.97	EDS
Total number of atoms	3259	wwPDB-VP
Average B, all atoms (Å^2)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.98% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.
[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: DTY, CL, NH2, PG6, ACE, A1MCG

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	0.39	0/2866	0.57	0/3898
2	B	0.34	0/72	0.48	0/87
All	All	0.39	0/2938	0.57	0/3985

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 ⓘ

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	2797	0	2817	18	0
2	B	145	0	82	0	0
3	A	1	0	0	0	0
4	A	18	0	26	5	0
5	A	285	0	0	2	0
5	B	13	0	0	0	0
All	All	3259	0	2925	18	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 3.

All (18) 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:86:LYS:HZ2	4:A:502:PG6:H101	1.48	0.77
1:A:80:GLU:OE1	1:A:113:ARG:NH2	2.27	0.68
1:A:61:VAL:HG22	1:A:71:TYR:CE2	2.30	0.66
1:A:86:LYS:HZ2	4:A:502:PG6:H82	1.62	0.65
1:A:113:ARG:NE	1:A:133:ASP:OD1	2.27	0.59
1:A:86:LYS:NZ	4:A:502:PG6:H82	2.19	0.57
1:A:122:LYS:O	1:A:123:LYS:HB2	2.05	0.56
1:A:80:GLU:CD	1:A:113:ARG:HH22	2.15	0.54
1:A:91:LYS:HG3	1:A:92:ARG:HG3	1.92	0.52
1:A:129:ASN:OD1	4:A:502:PG6:H122	2.11	0.50
1:A:222:TYR:HA	5:A:816:HOH:O	2.11	0.50
1:A:144:ARG:O	1:A:148:ARG:HG2	2.12	0.49
1:A:122:LYS:HD3	1:A:125:GLU:CD	2.40	0.47
1:A:289:THR:OG1	1:A:290:GLU:N	2.47	0.47
1:A:71:TYR:CZ	4:A:502:PG6:H81	2.50	0.46
1:A:122:LYS:HD3	1:A:125:GLU:OE1	2.17	0.43
1:A:364[B]:THR:OG1	5:A:601:HOH:O	2.21	0.42
1:A:122:LYS:HB2	1:A:125:GLU:HB2	2.03	0.41

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	346/359 (96%)	337 (97%)	7 (2%)	2 (1%)	22	6
2	B	9/15 (60%)	9 (100%)	0	0	100	100
All	All	355/374 (95%)	346 (98%)	7 (2%)	2 (1%)	22	6

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	122	LYS
1	A	123	LYS

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	312/319 (98%)	312 (100%)	0	100	100
2	B	8/8 (100%)	8 (100%)	0	100	100
All	All	320/327 (98%)	320 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	46	GLN
1	A	89	GLN
1	A	299	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

4 non-standard protein/DNA/RNA residues 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	#|Z| > 2	Counts	RMSZ	#|Z| > 2
2	A1MCG	B	7	2	18,19,20	1.23	1 (5%)	21,24,26	1.59	4 (19%)
2	A1MCG	B	12	2	18,19,20	1.21	2 (11%)	21,24,26	2.23	7 (33%)
2	A1MCG	B	5	2	18,19,20	1.30	2 (11%)	21,24,26	2.33	10 (47%)

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	A1MCG	B	7	2	-	0/9/10/12	0/2/2/2
2	A1MCG	B	12	2	-	0/9/10/12	0/2/2/2
2	A1MCG	B	5	2	-	2/9/10/12	0/2/2/2

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	5	A1MCG	C14-N13	3.91	1.44	1.36
2	B	7	A1MCG	C14-N13	3.36	1.43	1.36
2	B	12	A1MCG	C14-N13	3.22	1.43	1.36
2	B	5	A1MCG	CZ-N13	2.25	1.45	1.40
2	B	12	A1MCG	C16-N15	-2.12	1.30	1.34

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	5	A1MCG	C16-N15-C14	4.92	119.82	115.45
2	B	12	A1MCG	N19-C14-N15	-4.58	121.61	126.43
2	B	12	A1MCG	C16-N15-C14	4.47	119.42	115.45
2	B	5	A1MCG	N19-C14-N15	-4.10	122.12	126.43
2	B	12	A1MCG	CG-CB-CA	-3.80	106.41	114.10
2	B	5	A1MCG	C18-C17-C16	3.36	121.49	116.67
2	B	5	A1MCG	CZ-N13-C14	-3.32	119.60	129.23
2	B	7	A1MCG	C18-C17-C16	3.15	121.18	116.67
2	B	12	A1MCG	C18-N19-C14	3.11	118.20	115.45
2	B	12	A1MCG	C18-C17-C16	3.07	121.06	116.67
2	B	5	A1MCG	C18-N19-C14	3.01	118.12	115.45
2	B	5	A1MCG	C17-C18-N19	-2.66	119.08	123.43
2	B	12	A1MCG	C17-C18-N19	-2.51	119.32	123.43
2	B	5	A1MCG	C17-C16-N15	-2.49	119.36	123.43
2	B	5	A1MCG	CD2-CG-CD1	2.47	122.04	118.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	7	A1MCG	C17-C18-N19	-2.42	119.47	123.43
2	B	7	A1MCG	CE1-CZ-N13	-2.30	112.93	120.64
2	B	12	A1MCG	CE2-CZ-CE1	2.29	122.16	119.03
2	B	7	A1MCG	CB-CA-C	-2.03	107.66	111.47
2	B	5	A1MCG	N13-C14-N15	2.01	122.53	116.28
2	B	5	A1MCG	CE2-CZ-CE1	2.00	121.77	119.03

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	5	A1MCG	CE1-CZ-N13-C14
2	B	5	A1MCG	CE2-CZ-N13-C14

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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	#$|Z| > 2$
4	PG6	A	502	-	17,17,17	0.29	0	16,16,16	0.21	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	PG6	A	502	-	-	5/15/15/15	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	502	PG6	C10-C11-O6-C12
4	A	502	PG6	C6-C7-O4-C8
4	A	502	PG6	C7-C6-O3-C5
4	A	502	PG6	O5-C10-C11-O6
4	A	502	PG6	O4-C8-C9-O5

There are no ring outliers.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	502	PG6	5	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.

Ligand PG6 A 502

Bond lengths   Bond angles

Torsions   Rings
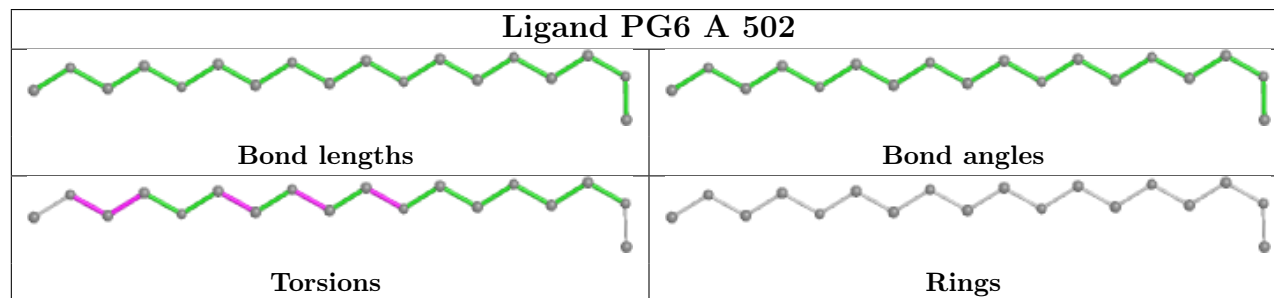
5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	347/359 (96%)	0.82	53 (15%)	6	5	10, 24, 52, 79	3 (0%)
2	B	9/15 (60%)	1.11	2 (22%)	3	2	20, 31, 37, 43	0
All	All	356/374 (95%)	0.83	55 (15%)	6	5	10, 24, 52, 79	3 (0%)

All (55) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	217	ILE	7.1
1	A	216	TYR	5.8
1	A	294	PRO	5.5
1	A	218	CYS	4.8
1	A	47	GLY	4.4
1	A	219	SER	4.1
1	A	221	TYR	4.1
1	A	293	PHE	4.0
1	A	263	VAL	3.8
1	A	119	SER	3.6
1	A	262	GLY	3.6
1	A	289	THR	3.6
1	A	122	LYS	3.3
1	A	259	GLY	3.2
1	A	214	VAL	3.1
1	A	124	ASP	3.1
1	A	260	ASP	3.1
1	A	264	ASP	3.1
1	A	307	PRO	3.1
1	A	120	GLY	3.0
2	B	13	CYS	3.0
1	A	222	TYR	3.0
1	A	77	ASP	2.9
1	A	35	SER	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	215	SER	2.9
1	A	150	LYS	2.8
1	A	308	ARG	2.8
1	A	36	LYS	2.7
1	A	59	THR	2.7
1	A	261	SER	2.6
1	A	90	ASP	2.6
1	A	363	THR	2.6
1	A	134	TYR	2.6
1	A	302	THR	2.5
1	A	220	ARG	2.5
1	A	123	LYS	2.5
1	A	136	PRO	2.5
1	A	376	ILE	2.4
1	A	37	VAL	2.3
1	A	67	PHE	2.3
1	A	364[A]	THR	2.3
1	A	148	ARG	2.3
1	A	278	ARG	2.3
1	A	287	ASN	2.3
1	A	286	PRO	2.3
1	A	295	GLN	2.2
1	A	288	TYR	2.2
1	A	296	ILE	2.2
2	B	8	PHE	2.2
1	A	152	THR	2.1
1	A	306	ARG	2.0
1	A	365	GLN	2.0
1	A	290	GLU	2.0
1	A	209	ARG	2.0
1	A	61	VAL	2.0

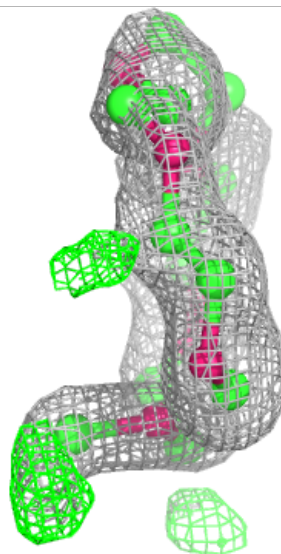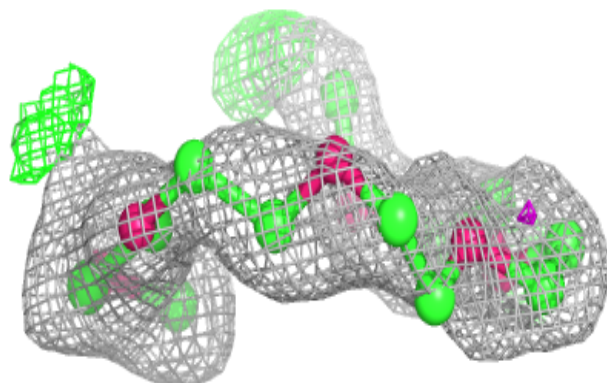## 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

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
2	A1MCG	B	12	18/19	0.91	0.10	23,25,31,34	0
2	A1MCG	B	7	18/19	0.95	0.07	20,21,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å²)	Q<0.9
2	DTY	B	1	12/13	0.95	0.08	24,27,33,35	0
2	A1MCG	B	5	18/19	0.96	0.07	20,23,25,27	0

6.3 Carbohydrates ⓘ

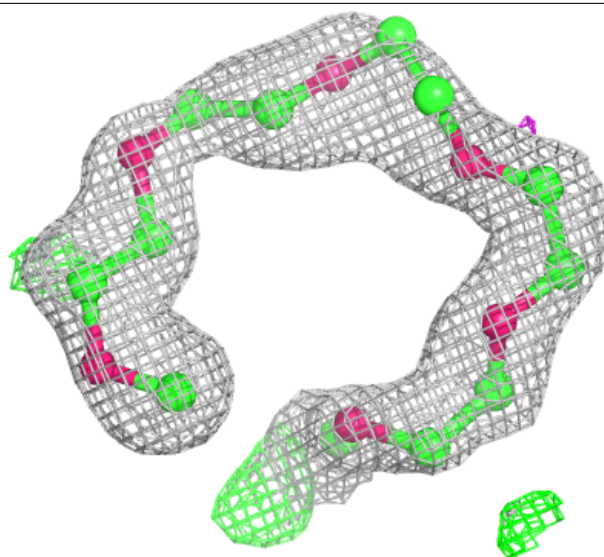There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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(Å²)	Q<0.9
4	PG6	A	502	18/18	0.75	0.18	27,50,58,66	0
3	CL	A	501	1/1	0.99	0.03	18,18,18,18	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.

Electron density around PG6 A 502:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
and green (positive)

6.5   Other polymers ⓘ

There are no such residues in this entry.