



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 25, 2026 – 07:16 PM EDT

PDB ID : 6YQB / pdb_00006yqb
Title : Taka-amylase in complex with alpha-glucosyl epi-cyclophellitol cyclosulfate inhibitor
Authors : Armstrong, Z.; Chen, Y.; Artola, M.; Overkleeft, H.; Davies, G.
Deposited on : 2020-04-16
Resolution : 1.50 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 ⓘ 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 ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

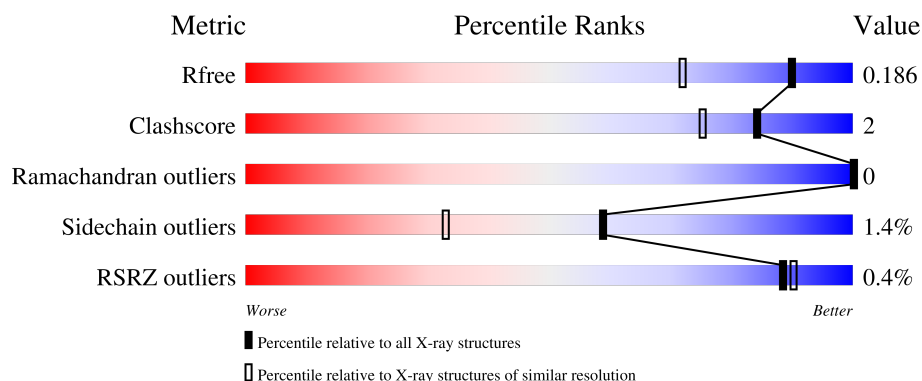
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4037 (1.50-1.50)
Clashscore	190562	4235 (1.50-1.50)
Ramachandran outliers	187476	4153 (1.50-1.50)
Sidechain outliers	187428	4150 (1.50-1.50)
RSRZ outliers	180081	4039 (1.50-1.50)

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 $\leq 5\%$. 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	AAA	499	% 90% 5% 5%
1	BBB	499	91% • • 5%

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
6	93Z	AAA	506	-	-	X	-

2 Entry composition [i](#)

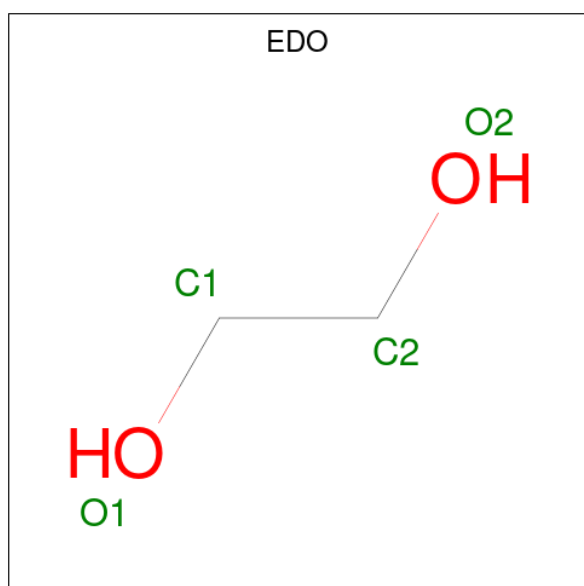
There are 7 unique types of molecules in this entry. The entry contains 15507 atoms, of which 7150 are hydrogens and 0 are deuteriums.

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 Alpha-amylase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	AAA	476	Total	C	H	N	O	S	217	8	0
			7272	2365	3531	605	753	18			
1	BBB	476	Total	C	H	N	O	S	216	6	0
			7234	2355	3511	600	750	18			

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



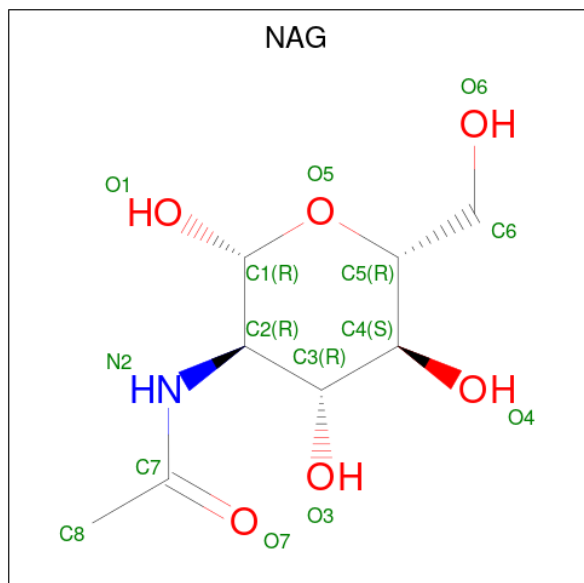
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	AAA	1	Total	C	H	O	1	0
			10	2	6	2		
2	AAA	1	Total	C	H	O	1	0
			10	2	6	2		
2	BBB	1	Total	C	H	O	1	0
			10	2	6	2		
2	BBB	1	Total	C	H	O	1	0
			10	2	6	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	BBB	1	Total	C	H	O	1	0
			10	2	6	2		
2	BBB	1	Total	C	H	O	1	0
			10	2	6	2		

- Molecule 3 is 2-acetamido-2-deoxy-beta-D-glucopyranose (CCD ID: NAG) (formula: $C_8H_{15}NO_6$).

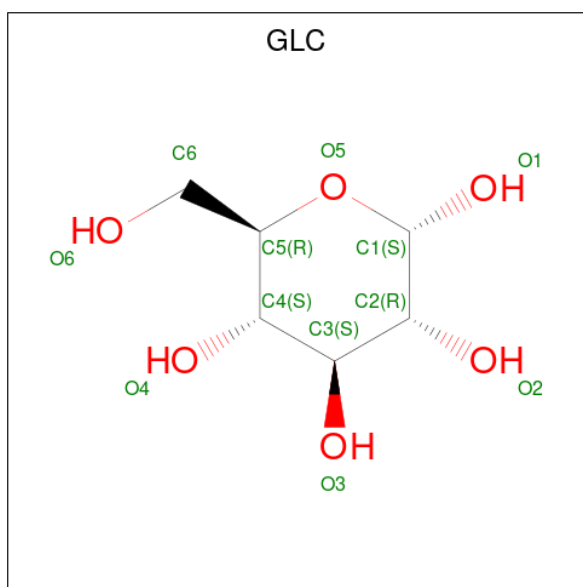


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	AAA	1	Total	C	H	N	O	3	0
			28	8	14	1	5		
3	BBB	1	Total	C	H	N	O	3	0
			28	8	14	1	5		

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca).

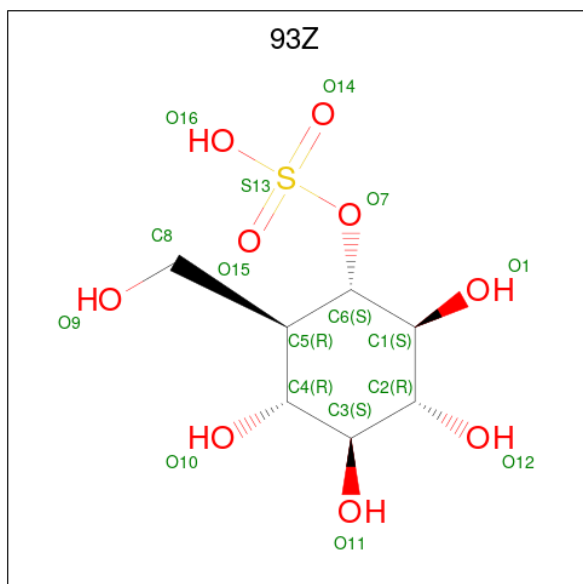
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	AAA	1	Total	Ca	0	0
			1	1		
4	BBB	1	Total	Ca	0	0
			1	1		

- Molecule 5 is alpha-D-glucopyranose (CCD ID: GLC) (formula: $C_6H_{12}O_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	AAA	1	Total	C	H	O	4	0
			22	6	11	5		
5	BBB	1	Total	C	H	O	4	0
			22	6	11	5		

- Molecule 6 is [(1 {S},2 {R},3 {R},4 {S},5 {R})-2-(hydroxymethyl)-3,4,5,6-tetrakis(oxidanyl)cyclohexyl] hydrogen sulfate (CCD ID: 93Z) (formula: $C_7H_{14}O_9S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	AAA	1	Total	C	H	O	S	3	0
			27	7	11	8	1		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
6	BBB	1	Total	C	H	O	S	3	0
			27	7	11	8	1		

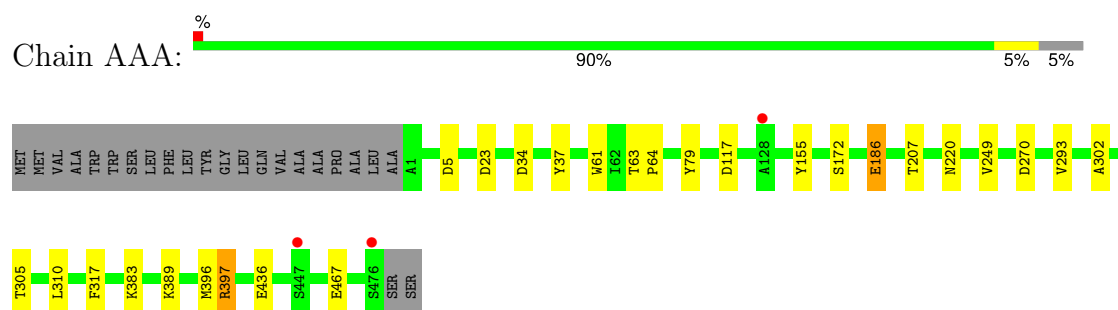
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	AAA	406	Total	O	0	0
			406	406		
7	BBB	379	Total	O	0	0
			379	379		

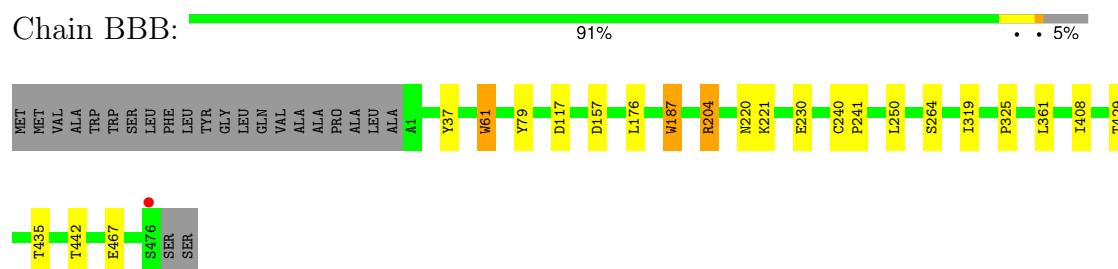
3 Residue-property plots [i](#)

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: Alpha-amylase



- Molecule 1: Alpha-amylase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	65.58Å 102.94Å 75.62Å 90.00° 103.81° 90.00°	Depositor
Resolution (Å)	59.78 – 1.50 59.78 – 1.50	Depositor EDS
% Data completeness (in resolution range)	98.5 (59.78-1.50) 98.5 (59.78-1.50)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.10 (at 1.50Å)	Xtriage
Refinement program	REFMAC 5.8.0258	Depositor
R, R_{free}	0.157 , 0.186 0.157 , 0.186	Depositor DCC
R_{free} test set	7598 reflections (4.74%)	wwPDB-VP
Wilson B-factor (Å ²)	17.3	Xtriage
Anisotropy	0.927	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 28.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.98	EDS
Total number of atoms	15507	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.12% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: GLC, EDO, CA, 93Z, NAG

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	AAA	1.10	2/3841 (0.1%)	1.14	4/5244 (0.1%)
1	BBB	1.11	1/3823 (0.0%)	1.16	6/5220 (0.1%)
All	All	1.11	3/7664 (0.0%)	1.15	10/10464 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AAA	310	LEU	C-O	5.42	1.30	1.24
1	AAA	249	VAL	C-O	5.28	1.29	1.23
1	BBB	204	ARG	CD-NE	-5.15	1.39	1.46

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AAA	23	ASP	CA-CB-CG	6.65	119.25	112.60
1	BBB	442	THR	CB-CA-C	6.38	121.05	109.37
1	AAA	34	ASP	CA-CB-CG	6.26	118.86	112.60
1	BBB	117	ASP	CA-CB-CG	5.38	117.98	112.60
1	BBB	429	THR	CB-CA-C	5.36	118.58	109.53

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	AAA	3741	3531	3519	21	0
1	BBB	3723	3511	3501	11	0
2	AAA	8	12	12	1	0
2	BBB	16	24	24	0	0
3	AAA	14	14	13	0	0
3	BBB	14	14	13	2	0
4	AAA	1	0	0	0	0
4	BBB	1	0	0	0	0
5	AAA	11	11	10	0	0
5	BBB	11	11	10	0	0
6	AAA	16	11	0	7	0
6	BBB	16	11	0	0	0
7	AAA	406	0	0	5	0
7	BBB	379	0	0	5	0
All	All	8357	7150	7102	34	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.

The worst 5 of 34 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:AAA:207[B]:THR:HG22	6:AAA:506:93Z:O14	1.44	1.14
1:AAA:207[B]:THR:CG2	6:AAA:506:93Z:O14	2.02	1.08
1:AAA:207[B]:THR:HG23	6:AAA:506:93Z:O7	1.68	0.92
1:AAA:383:LYS:HE3	7:AAA:834:HOH:O	1.72	0.88
3:BBB:501:NAG:H81	7:BBB:852:HOH:O	1.76	0.85

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	AAA	482/499 (97%)	470 (98%)	12 (2%)	0	100	100
1	BBB	480/499 (96%)	470 (98%)	10 (2%)	0	100	100
All	All	962/998 (96%)	940 (98%)	22 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	AAA	405/414 (98%)	397 (98%)	8 (2%)	48	20
1	BBB	403/414 (97%)	398 (99%)	5 (1%)	63	38
All	All	808/828 (98%)	795 (98%)	13 (2%)	59	28

5 of 13 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AAA	436	GLU
1	BBB	61	TRP
1	BBB	264	SER
1	BBB	220	ASN
1	BBB	221	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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](#)

Of 14 ligands modelled in this entry, 2 are monoatomic - leaving 12 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	$\# Z > 2$
6	93Z	AAA	506	5,1	16,16,17	1.54	2 (12%)	17,24,26	1.11	1 (5%)
6	93Z	BBB	508	5,1	16,16,17	1.14	2 (12%)	17,24,26	1.05	1 (5%)
5	GLC	AAA	505	6	11,11,12	0.68	0	15,15,17	1.05	1 (6%)
5	GLC	BBB	507	6	11,11,12	0.67	0	15,15,17	1.03	1 (6%)
2	EDO	BBB	502	-	3,3,3	0.38	0	2,2,2	0.38	0
3	NAG	AAA	503	1	14,14,15	1.04	1 (7%)	17,19,21	1.34	1 (5%)
2	EDO	BBB	503	-	3,3,3	0.38	0	2,2,2	0.13	0
3	NAG	BBB	501	1	14,14,15	1.34	3 (21%)	17,19,21	2.18	7 (41%)
2	EDO	BBB	505	-	3,3,3	0.26	0	2,2,2	0.51	0
2	EDO	AAA	501	-	3,3,3	0.09	0	2,2,2	0.17	0
2	EDO	AAA	502	-	3,3,3	0.14	0	2,2,2	0.74	0
2	EDO	BBB	504	-	3,3,3	0.10	0	2,2,2	0.63	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
6	93Z	AAA	506	5,1	-	3/7/27/31	0/1/1/1
6	93Z	BBB	508	5,1	-	2/7/27/31	0/1/1/1
5	GLC	AAA	505	6	-	0/2/19/22	0/1/1/1
5	GLC	BBB	507	6	-	0/2/19/22	0/1/1/1
2	EDO	BBB	502	-	-	0/1/1/1	-
3	NAG	AAA	503	1	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	EDO	BBB	503	-	-	0/1/1/1	-
3	NAG	BBB	501	1	-	2/6/23/26	0/1/1/1
2	EDO	BBB	505	-	-	0/1/1/1	-
2	EDO	AAA	501	-	-	0/1/1/1	-
2	EDO	AAA	502	-	-	0/1/1/1	-
2	EDO	BBB	504	-	-	1/1/1/1	-

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	AAA	506	93Z	C2-C3	3.66	1.58	1.52
6	AAA	506	93Z	C5-C4	-3.18	1.50	1.53
6	BBB	508	93Z	C8-C5	2.45	1.56	1.52
3	BBB	501	NAG	O7-C7	2.44	1.28	1.23
3	BBB	501	NAG	O4-C4	2.38	1.48	1.43

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	BBB	501	NAG	C2-N2-C7	4.35	128.73	122.90
3	BBB	501	NAG	C3-C4-C5	-3.57	103.77	110.23
3	BBB	501	NAG	C6-C5-C4	-3.48	104.47	113.02
3	AAA	503	NAG	O5-C1-C2	-3.25	106.27	111.29
3	BBB	501	NAG	C1-O5-C5	2.72	115.83	112.19

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	AAA	506	93Z	C5-C6-O7-S13
6	BBB	508	93Z	C5-C6-O7-S13
3	BBB	501	NAG	C8-C7-N2-C2
3	BBB	501	NAG	O7-C7-N2-C2
6	AAA	506	93Z	C1-C6-O7-S13

There are no ring outliers.

3 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	AAA	506	93Z	7	0
3	BBB	501	NAG	2	0

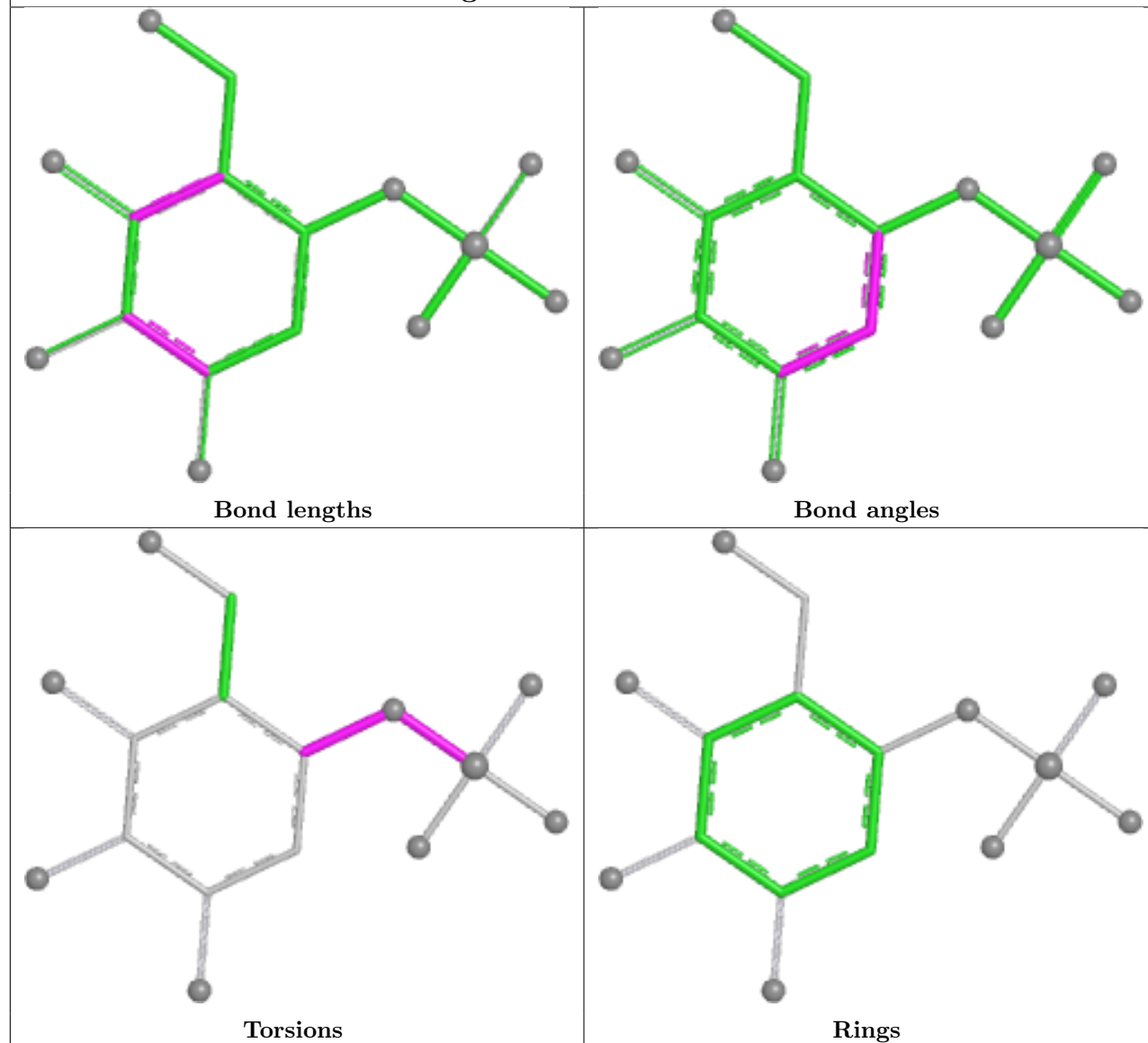
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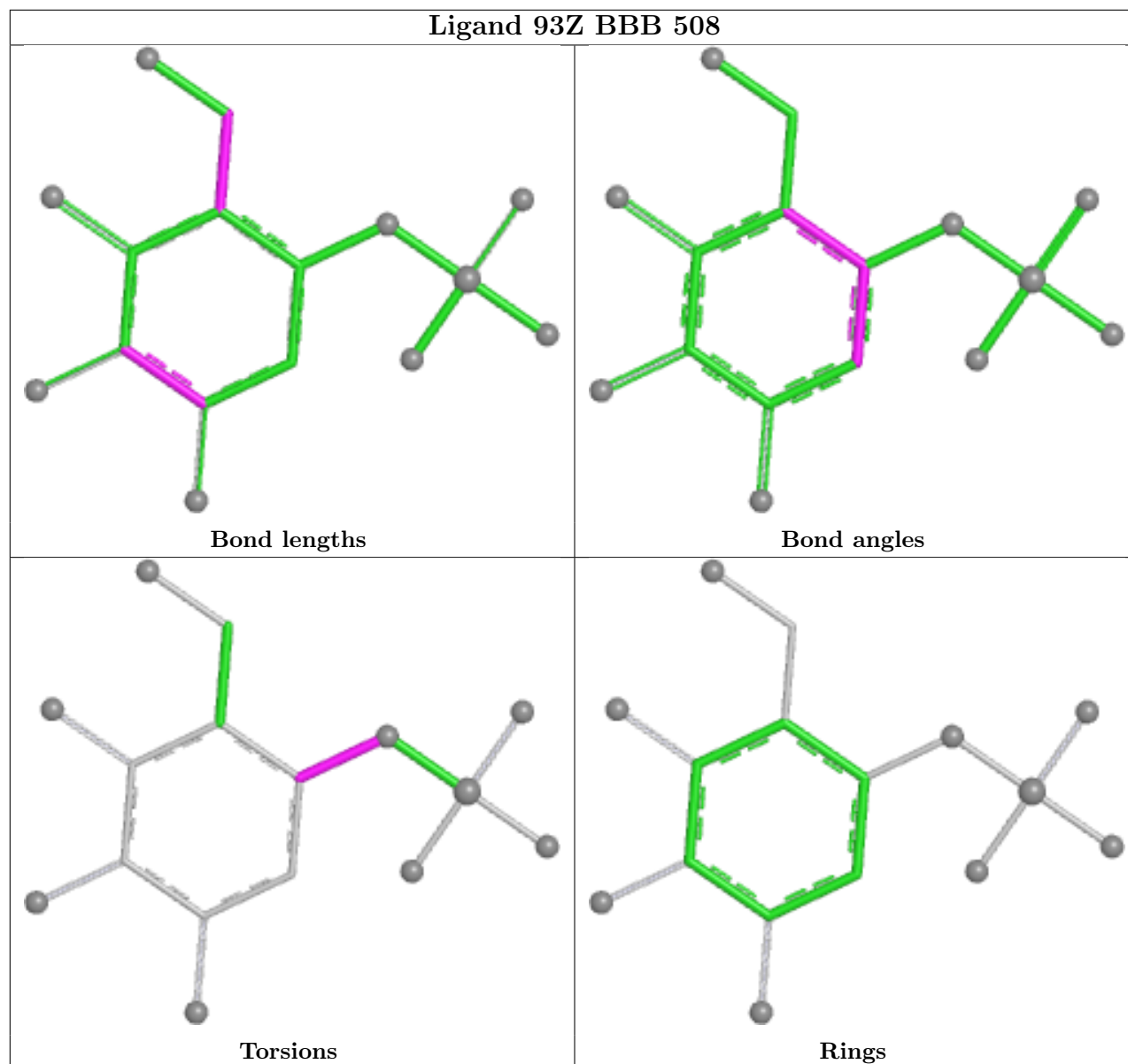
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	AAA	502	EDO	1	0

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 than 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 93Z AAA 506





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, 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	AAA	476/499 (95%)	-0.39	3 (0%) 85 88	7, 19, 30, 60	9 (1%)
1	BBB	476/499 (95%)	-0.27	1 (0%) 91 92	9, 21, 34, 58	9 (1%)
All	All	952/998 (95%)	-0.33	4 (0%) 88 90	7, 20, 33, 60	18 (1%)

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	BBB	476	SER	2.8
1	AAA	476	SER	2.5
1	AAA	447	SER	2.3
1	AAA	128	ALA	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 oligosaccharides 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, 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
3	NAG	BBB	501	14/15	0.84	0.11	28,37,46,50	3

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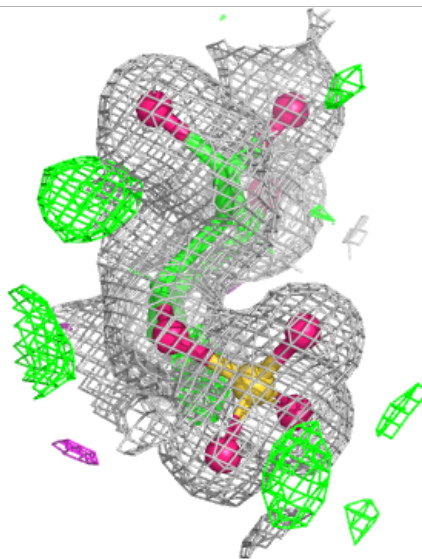
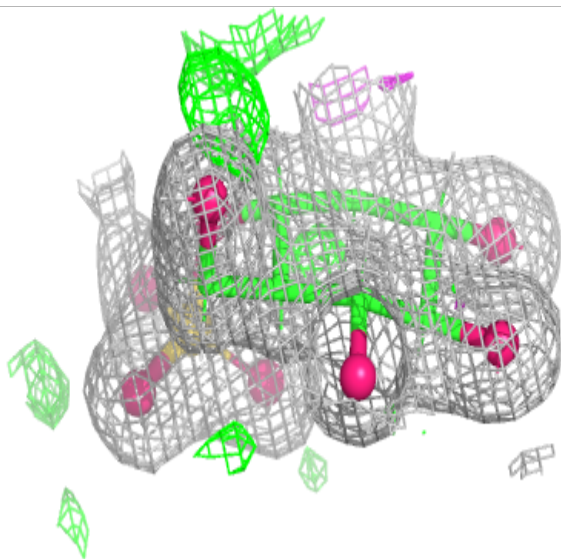
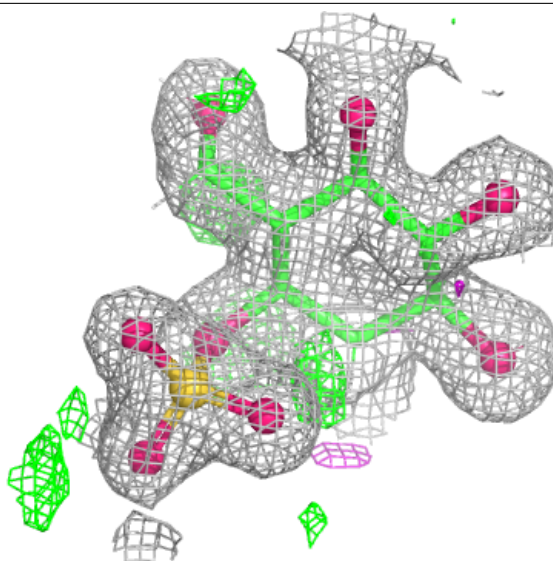
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	AAA	502	4/4	0.90	0.11	29,33,43,43	1
3	NAG	AAA	503	14/15	0.92	0.08	29,35,38,41	3
2	EDO	AAA	501	4/4	0.94	0.09	24,29,37,37	1
5	GLC	AAA	505	11/12	0.94	0.08	17,19,20,22	22
2	EDO	BBB	502	4/4	0.95	0.08	25,29,31,31	1
2	EDO	BBB	504	4/4	0.96	0.07	25,30,31,31	1
2	EDO	BBB	503	4/4	0.96	0.07	28,30,36,36	1
6	93Z	AAA	506	16/17	0.96	0.07	16,20,21,24	27
5	GLC	BBB	507	11/12	0.97	0.05	17,18,19,20	4
2	EDO	BBB	505	4/4	0.97	0.06	22,27,29,29	1
6	93Z	BBB	508	16/17	0.98	0.05	16,19,22,25	3
4	CA	AAA	504	1/1	0.99	0.03	16,16,16,16	0
4	CA	BBB	506	1/1	0.99	0.03	17,17,17,17	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.

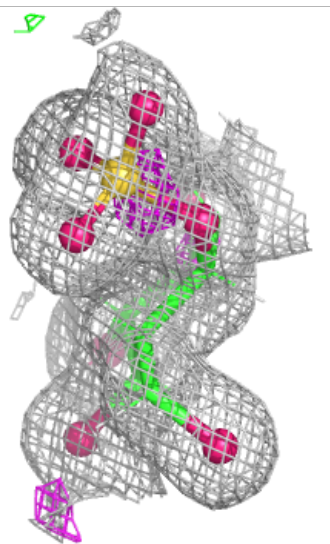
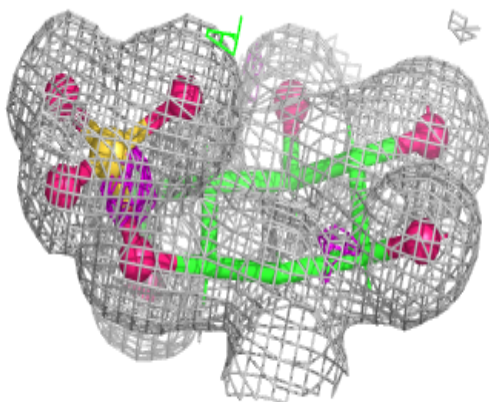
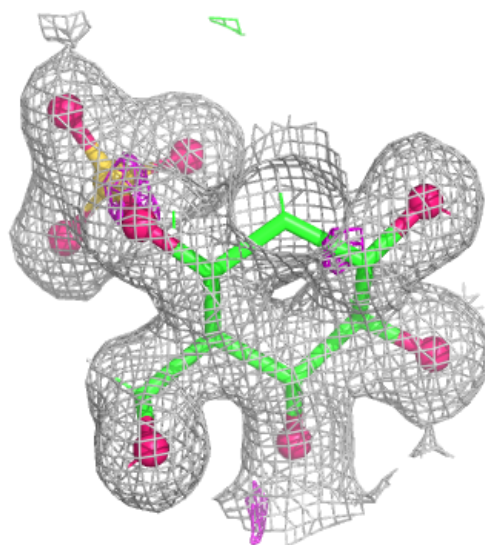
Electron density around 93Z AAA 506:

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



Electron density around 93Z BBB 508:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.