



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 07:03 PM UTC

PDB ID : 6RQZ / pdb_00006rqz
Title : GOLGI ALPHA-MANNOSIDASE II complex with Manno-epi-cyclophellitol aziridine
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Deposited on : 2019-05-16
Resolution : 1.53 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 ⓘ 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:

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

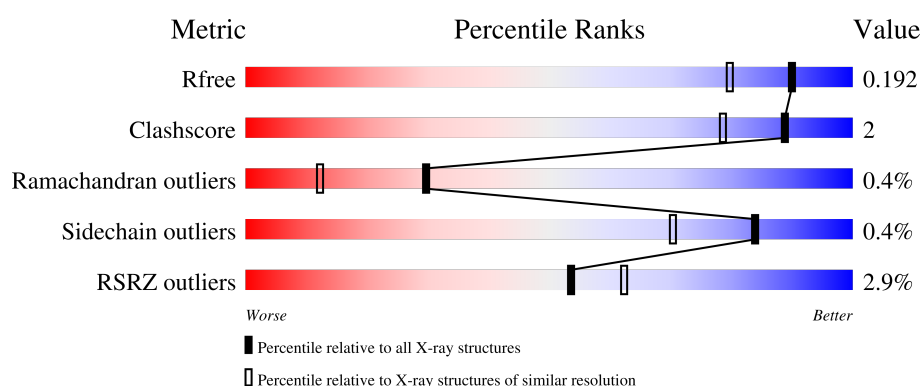
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.53 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	1003 (1.54-1.54)
Clashscore	190562	1025 (1.54-1.54)
Ramachandran outliers	187476	1007 (1.54-1.54)
Sidechain outliers	187428	1007 (1.54-1.54)
RSRZ outliers	180081	1002 (1.54-1.54)

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	A	1033	3% 93% 5%

2 Entry composition [i](#)

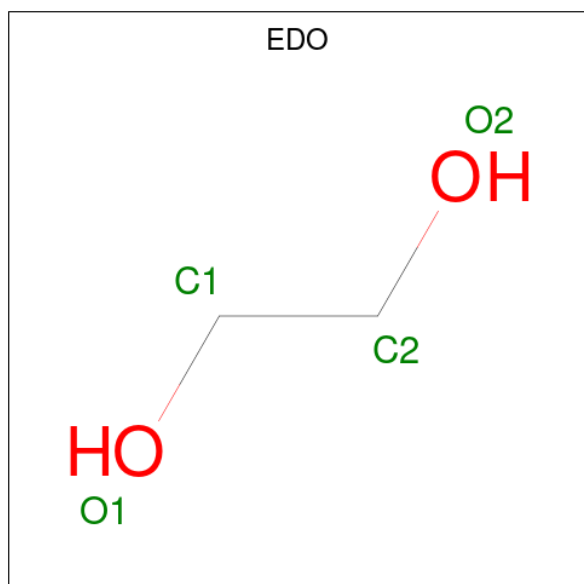
There are 6 unique types of molecules in this entry. The entry contains 9244 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Alpha-mannosidase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1014	Total	C	N	O	S	0	27	0
			8386	5326	1469	1549	42			

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



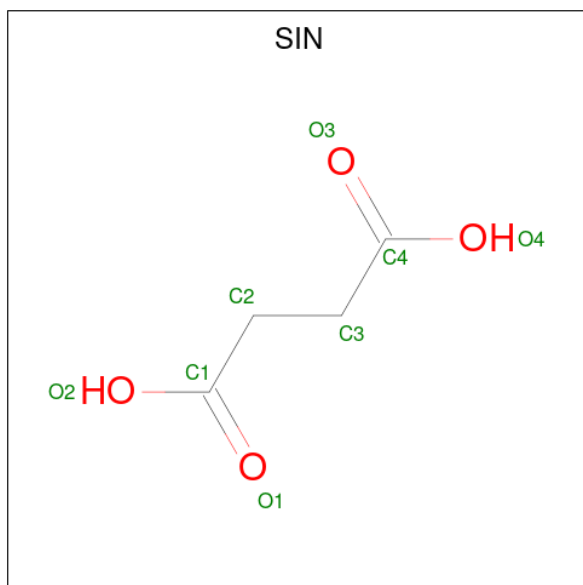
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		

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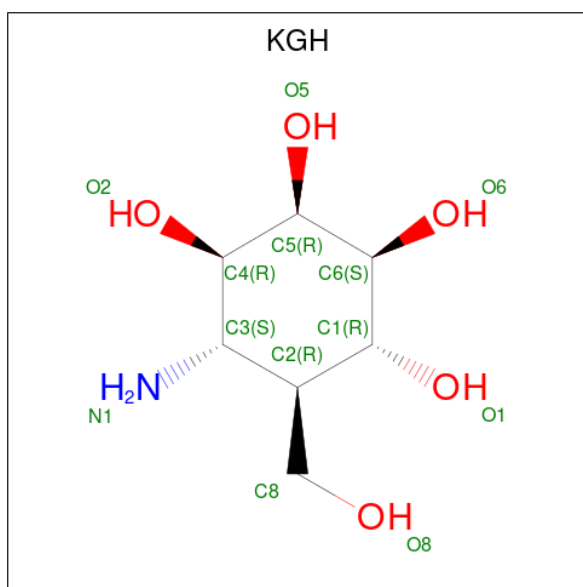
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		
2	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 3 is SUCCINIC ACID (CCD ID: SIN) (formula: C₄H₆O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			8	4	4		

- Molecule 4 is (1 {R},2 {S},3 {R},4 {R},5 {S},6 {R})-5-azanyl-6-(hydroxymethyl)cyclohexane-1,2,3,4-tetrol (CCD ID: KGH) (formula: C₇H₁₅NO₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			12	7	1	4		

- Molecule 5 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Zn	0	0
			1	1		

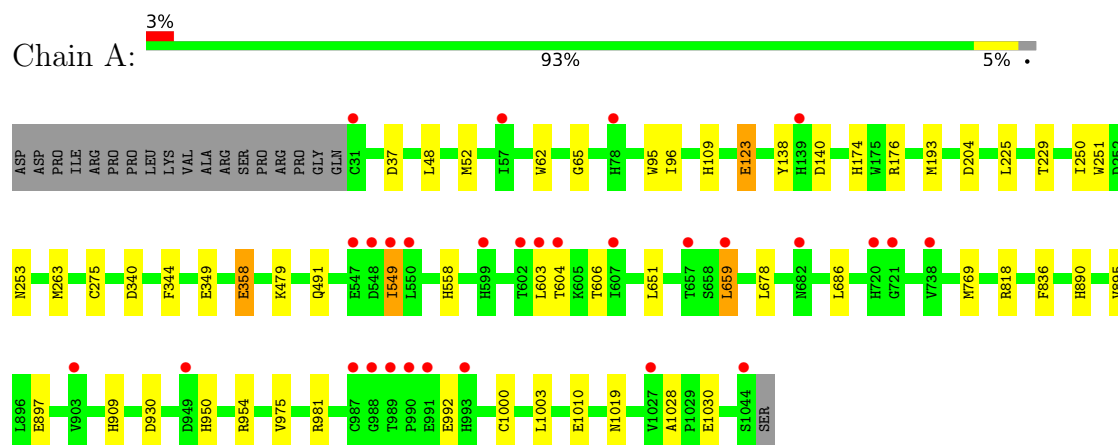
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	805	Total	O	0	0
			805	805		

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-mannosidase 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	75.62Å 89.99Å 82.93Å 90.00° 101.84° 90.00°	Depositor
Resolution (Å)	81.30 – 1.53 81.17 – 1.53	Depositor EDS
% Data completeness (in resolution range)	99.8 (81.30-1.53) 99.8 (81.17-1.53)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.03 (at 1.53Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, R_{free}	0.156 , 0.183 0.168 , 0.192	Depositor DCC
R_{free} test set	8069 reflections (4.16%)	wwPDB-VP
Wilson B-factor (Å ²)	21.8	Xtriage
Anisotropy	0.328	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 31.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	9244	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.15% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, KGH, EDO, SIN

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	1.06	3/8642 (0.0%)	1.16	9/11732 (0.1%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	950	HIS	CE1-NE2	6.65	1.39	1.32
1	A	890	HIS	CE1-NE2	6.59	1.39	1.32
1	A	909	HIS	CE1-NE2	5.33	1.37	1.32

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	123	GLU	CB-CG-CD	6.64	123.88	112.60
1	A	818	ARG	NE-CZ-NH2	-6.58	113.28	119.20
1	A	836	PHE	CA-CB-CG	5.96	119.75	113.80
1	A	818	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	A	250	ILE	CA-C-O	-5.23	114.97	120.57
1	A	109	HIS	CA-CB-CG	-5.20	108.60	113.80
1	A	140	ASP	CA-CB-CG	5.19	117.79	112.60
1	A	340	ASP	CA-CB-CG	5.08	117.68	112.60
1	A	358	GLU	CA-C-O	-5.04	115.20	120.55

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	A	8386	0	8151	32	0
2	A	32	0	48	0	0
3	A	8	0	4	0	0
4	A	12	0	0	0	0
5	A	1	0	0	0	0
6	A	805	0	0	1	0
All	All	9244	0	8203	32	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 (32) 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:954:ARG:HD3	1:A:981[B]:ARG:HH12	1.32	0.94
1:A:954:ARG:HD3	1:A:981[B]:ARG:NH1	1.89	0.87
1:A:954:ARG:CD	1:A:981[B]:ARG:HH12	1.96	0.78
1:A:954:ARG:CD	1:A:981[B]:ARG:NH1	2.53	0.71
1:A:1000:CYS:SG	1:A:1028:ALA:HB2	2.40	0.61
1:A:954:ARG:CG	1:A:981[B]:ARG:HH12	2.18	0.56
1:A:686:LEU:HD22	1:A:769[B]:MET:SD	2.46	0.56
1:A:174:HIS:CE1	1:A:176:ARG:HD3	2.42	0.53
1:A:651:LEU:HD22	1:A:659:LEU:HD23	1.90	0.53
1:A:344:PHE:H	1:A:349[A]:GLU:CD	2.17	0.53
1:A:37:ASP:HB2	1:A:253[B]:ASN:ND2	2.27	0.50
1:A:48:LEU:HG	1:A:52[A]:MET:SD	2.52	0.49
1:A:1010:GLU:OE1	1:A:1019:ASN:HB3	2.14	0.48
1:A:138[A]:TYR:CE1	1:A:193:MET:HE1	2.49	0.47
1:A:229:THR:HG21	1:A:263:MET:HE2	1.96	0.47
1:A:48:LEU:O	1:A:52[A]:MET:HG3	2.16	0.46
1:A:975:VAL:HG21	1:A:1003:LEU:CD1	2.46	0.46
1:A:604:THR:OG1	1:A:606:THR:HG22	2.16	0.46
1:A:954:ARG:CG	1:A:981[B]:ARG:NH1	2.79	0.45
1:A:981[B]:ARG:NH2	1:A:1030:GLU:HB3	2.33	0.44
1:A:606:THR:HA	6:A:1350:HOH:O	2.18	0.44
1:A:491:GLN:NE2	1:A:491:GLN:HA	2.32	0.43
1:A:123:GLU:OE2	1:A:358:GLU:OE2	2.37	0.43
1:A:96:ILE:HA	1:A:479:LYS:HG3	2.00	0.43
1:A:62:TRP:CD2	1:A:65:GLY:HA3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:LEU:C	1:A:225:LEU:HD23	2.45	0.42
1:A:895:VAL:HG12	1:A:897:GLU:CG	2.50	0.42
1:A:491:GLN:HA	1:A:491:GLN:HE21	1.86	0.41
1:A:558:HIS:HB3	1:A:930:ASP:HB2	2.01	0.41
1:A:678:LEU:HD12	1:A:769[B]:MET:HE1	2.02	0.41
1:A:251:TRP:CD1	1:A:251:TRP:C	2.99	0.41
1:A:678:LEU:HB2	1:A:769[B]:MET:HE1	2.03	0.41

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	Percentiles	
1	A	1039/1033 (101%)	1012 (97%)	23 (2%)	4 (0%)	30	12

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	549	ILE
1	A	95	TRP
1	A	992	GLU
1	A	204	ASP

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	A	928/918 (101%)	924 (100%)	4 (0%)	84 70

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	275	CYS
1	A	549	ILE
1	A	603	LEU
1	A	659	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	346	GLN
1	A	373	GLN
1	A	709	HIS
1	A	986	GLN
1	A	993	HIS

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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 11 ligands modelled in this entry, 1 is monoatomic - leaving 10 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	$\# Z > 2$
2	EDO	A	1204	-	3,3,3	0.50	0	2,2,2	0.29	0
2	EDO	A	1203	-	3,3,3	0.21	0	2,2,2	0.14	0
2	EDO	A	1208	-	3,3,3	0.78	0	2,2,2	0.76	0
4	KGH	A	1210	5,1	12,12,13	1.21	1 (8%)	14,17,19	2.33	6 (42%)
2	EDO	A	1206	-	3,3,3	0.28	0	2,2,2	0.29	0
2	EDO	A	1201	-	3,3,3	0.50	0	2,2,2	0.62	0
3	SIN	A	1209	-	7,7,7	1.53	1 (14%)	8,8,8	1.10	1 (12%)
2	EDO	A	1202	-	3,3,3	0.20	0	2,2,2	0.24	0
2	EDO	A	1207	-	3,3,3	0.44	0	2,2,2	0.43	0
2	EDO	A	1205	-	3,3,3	0.29	0	2,2,2	0.27	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	EDO	A	1204	-	-	0/1/1/1	-
2	EDO	A	1203	-	-	0/1/1/1	-
2	EDO	A	1208	-	-	0/1/1/1	-
4	KGH	A	1210	5,1	-	0/2/22/26	1/1/1/1
2	EDO	A	1206	-	-	1/1/1/1	-
2	EDO	A	1201	-	-	0/1/1/1	-
3	SIN	A	1209	-	-	0/5/5/5	-
2	EDO	A	1202	-	-	0/1/1/1	-
2	EDO	A	1207	-	-	0/1/1/1	-
2	EDO	A	1205	-	-	0/1/1/1	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1209	SIN	O3-C4	2.49	1.30	1.22
4	A	1210	KGH	C2-C1	2.04	1.55	1.53

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1210	KGH	C2-C3-N1	-4.07	103.50	111.73
4	A	1210	KGH	C4-C3-C2	3.76	116.39	111.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	1210	KGH	O5-C5-C4	-3.32	101.59	109.86
4	A	1210	KGH	C5-C4-C3	-3.01	106.49	112.65
4	A	1210	KGH	O5-C5-C6	2.87	116.09	110.15
4	A	1210	KGH	O6-C6-C5	-2.63	104.69	110.05
3	A	1209	SIN	O1-C1-C2	-2.16	116.23	123.09

There are no chirality outliers.

All (1) torsion outliers are listed below:

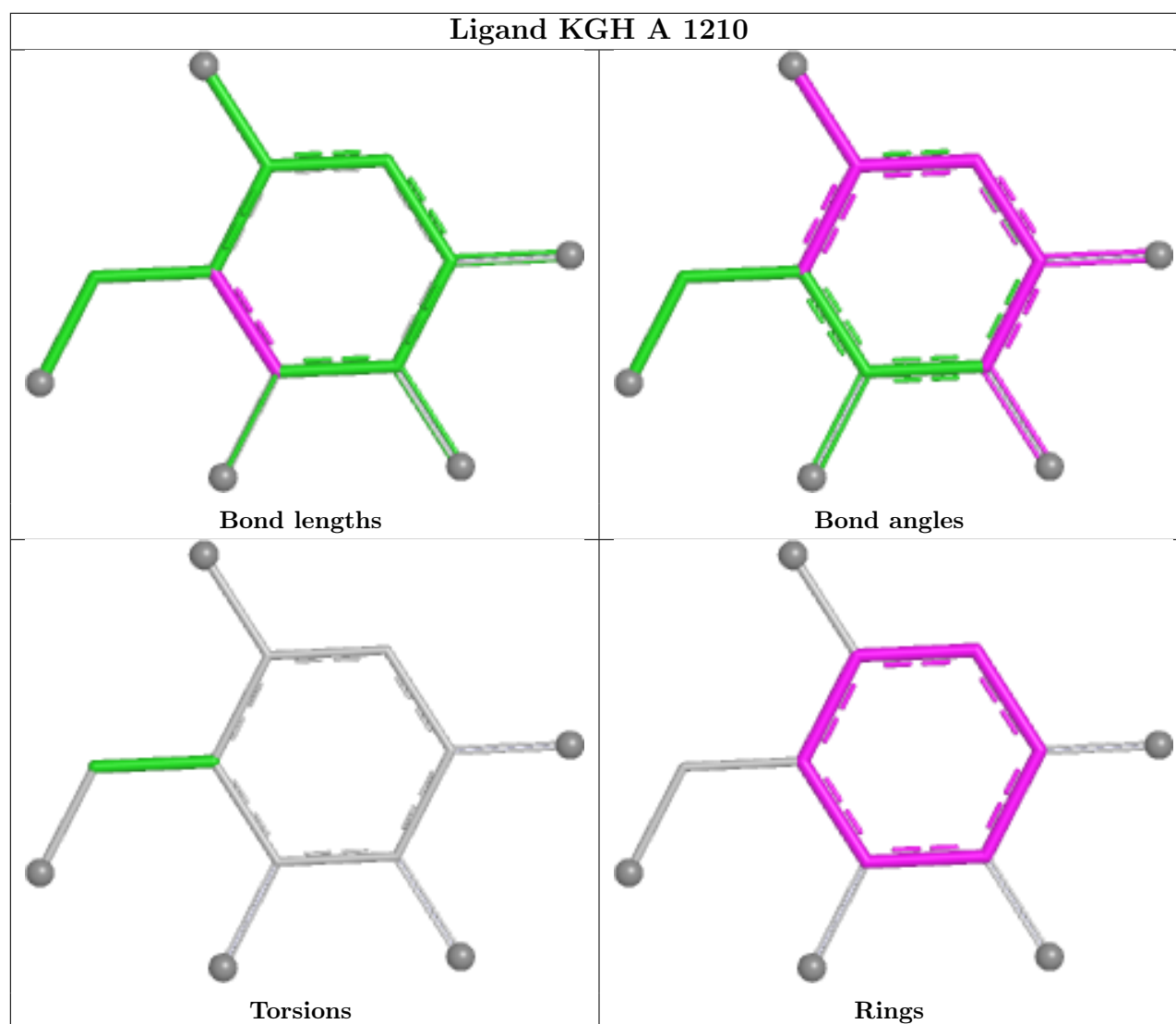
Mol	Chain	Res	Type	Atoms
2	A	1206	EDO	O1-C1-C2-O2

All (1) ring outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	1210	KGH	C1-C2-C3-C4-C5-C6

No monomer is involved in short contacts.

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.



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 ⓘ

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	1014/1033 (98%)	0.11	29 (2%) 53 62	10, 24, 43, 91	27 (2%)

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	549	ILE	4.0
1	A	990	PRO	3.8
1	A	989	THR	3.8
1	A	603	LEU	3.7
1	A	993	HIS	3.3
1	A	738	VAL	3.3
1	A	139[A]	HIS	3.0
1	A	602	THR	2.8
1	A	720	HIS	2.8
1	A	659	LEU	2.7
1	A	903	VAL	2.6
1	A	57	ILE	2.6
1	A	1027	VAL	2.5
1	A	987	CYS	2.4
1	A	657	THR	2.4
1	A	547	GLU	2.4
1	A	607	ILE	2.3
1	A	548	ASP	2.3
1	A	682[A]	ASN	2.2
1	A	949[A]	ASP	2.1
1	A	991	GLU	2.1
1	A	721	GLY	2.1
1	A	550	LEU	2.1
1	A	599	HIS	2.1
1	A	31	CYS	2.1
1	A	988	GLY	2.1
1	A	78	HIS	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	604	THR	2.0
1	A	1044	SER	2.0

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](#)

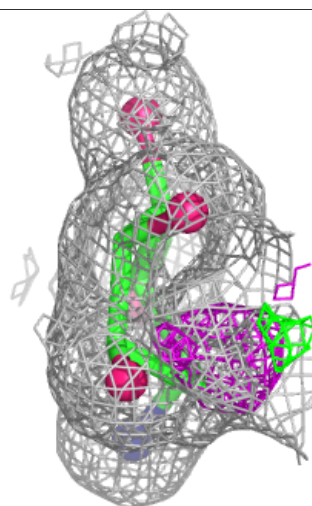
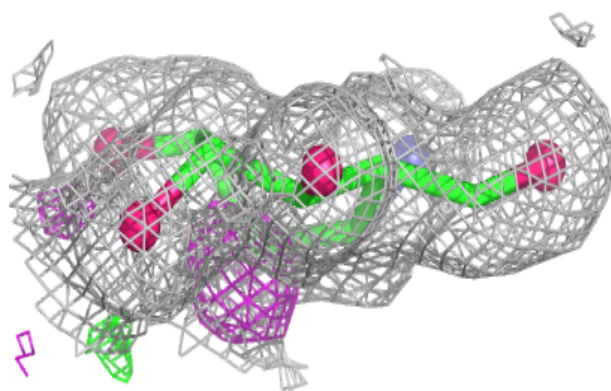
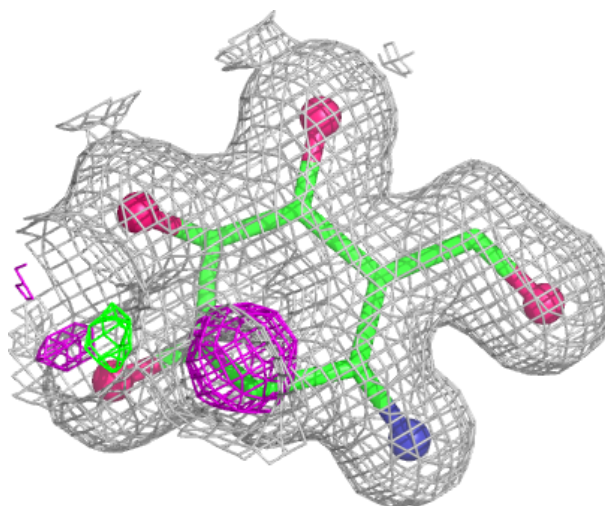
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	A	1204	4/4	0.84	0.13	44,45,47,52	0
3	SIN	A	1209	8/8	0.87	0.12	26,33,44,45	0
2	EDO	A	1207	4/4	0.92	0.11	32,38,40,43	0
2	EDO	A	1208	4/4	0.93	0.11	28,36,39,41	0
2	EDO	A	1206	4/4	0.93	0.09	26,35,35,35	0
2	EDO	A	1201	4/4	0.94	0.11	23,23,26,28	0
2	EDO	A	1203	4/4	0.95	0.08	31,31,34,41	0
2	EDO	A	1202	4/4	0.95	0.09	25,26,27,28	0
2	EDO	A	1205	4/4	0.97	0.09	23,28,28,30	0
4	KGH	A	1210	12/13	0.97	0.05	17,20,22,23	0
5	ZN	A	1211	1/1	1.00	0.02	19,19,19,19	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 KGH A 1210:

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



6.5 Other polymers ⓘ

There are no such residues in this entry.