



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 14, 2026 – 02:08 PM UTC

PDB ID : 5OVE / pdb_00005ove
Title : Ras guanine nucleotide exchange factor SOS1 (Rem-cdc25) in complex with small molecule inhibitor compound 1
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Deposited on : 2017-08-28
Resolution : 1.85 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 ⓘ](#)) 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)

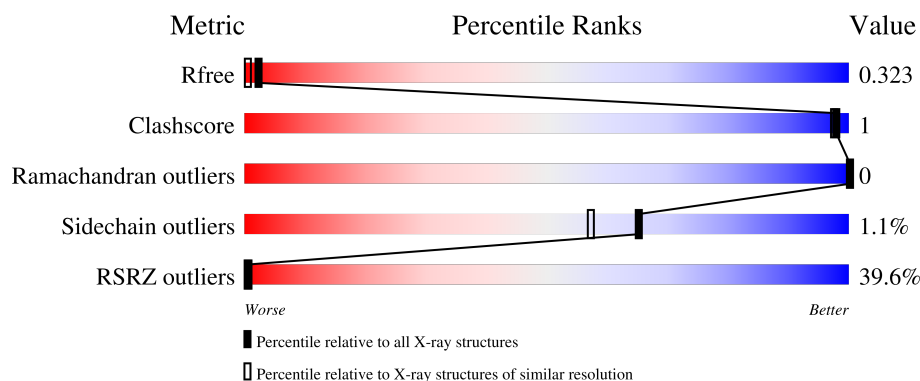
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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	3428 (1.86-1.86)
Clashscore	190562	3579 (1.86-1.86)
Ramachandran outliers	187476	3553 (1.86-1.86)
Sidechain outliers	187428	3553 (1.86-1.86)
RSRZ outliers	180081	3429 (1.86-1.86)

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	490	38% 93% .

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 4356 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.

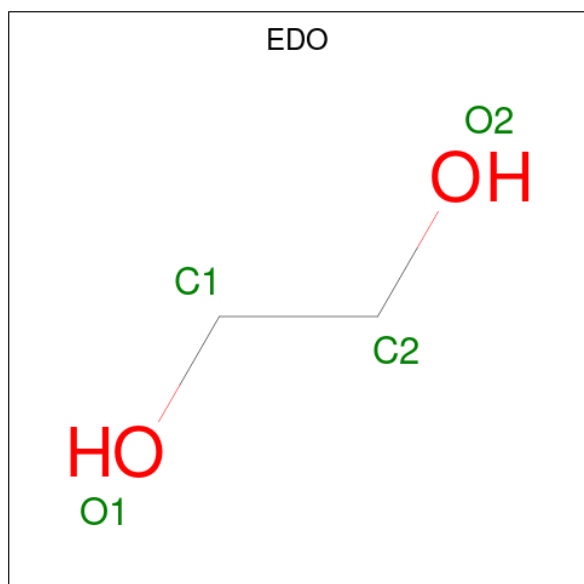
- Molecule 1 is a protein called Son of sevenless homolog 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	472	3988	2561	677	736	14	0	13	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	560	GLY	GLN	engineered mutation	UNP Q07889
A	561	ALA	GLU	engineered mutation	UNP Q07889
A	562	MET	GLU	engineered mutation	UNP Q07889
A	563	ALA	LYS	engineered mutation	UNP Q07889

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



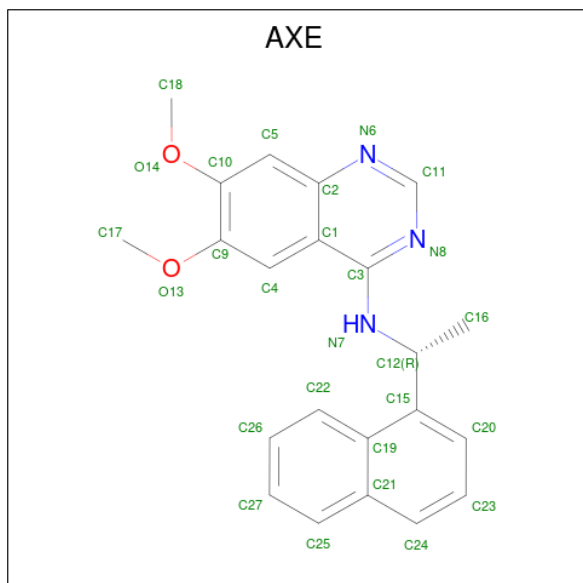
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	4	2	2	0	0

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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		

- Molecule 3 is 6,7-dimethoxy- {N}-[(1 {R})-1-naphthalen-1-ylethyl]quinazolin-4-amine (CCD ID: AXE) (formula: C₂₂H₂₁N₃O₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			27	22	3	2		

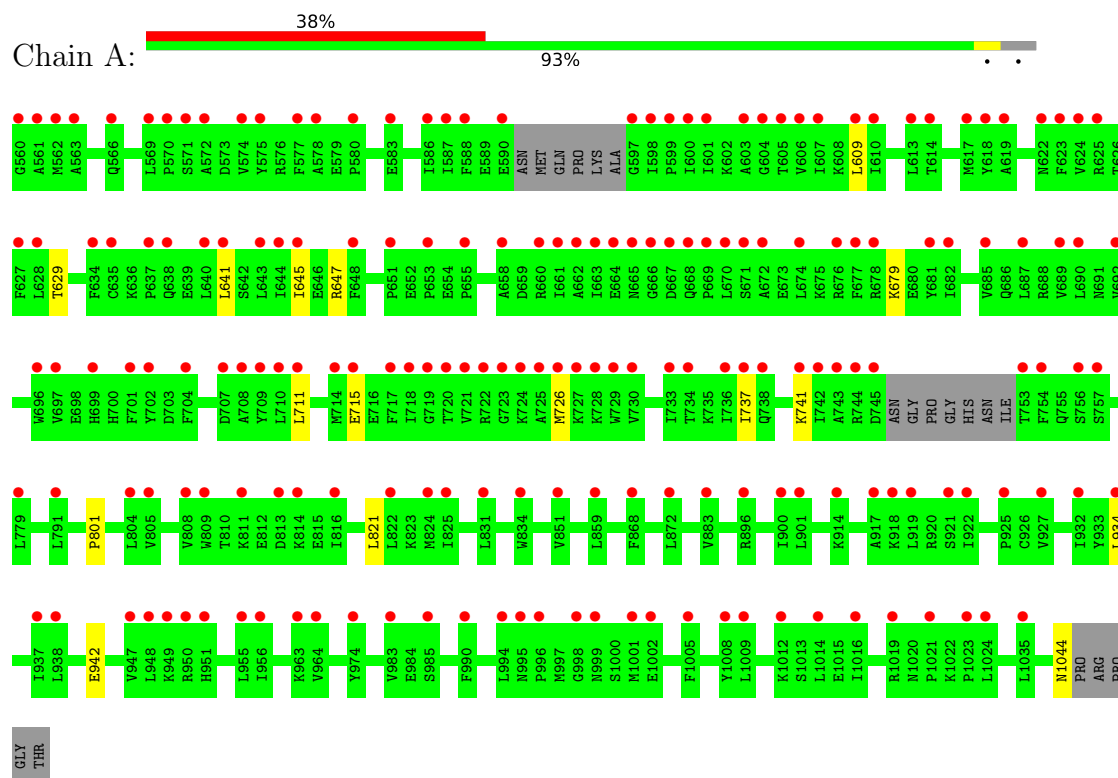
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	329	Total	O	0	0
			329	329		

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: Son of sevenless homolog 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	41.34Å 85.26Å 176.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.51 – 1.85 48.51 – 1.85	Depositor EDS
% Data completeness (in resolution range)	99.6 (48.51-1.85) 99.8 (48.51-1.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.11 (at 1.84Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.273 , 0.323 0.278 , 0.323	Depositor DCC
R_{free} test set	2100 reflections (3.86%)	wwPDB-VP
Wilson B-factor (Å ²)	33.7	Xtriage
Anisotropy	0.506	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 41.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	4356	wwPDB-VP
Average B, all atoms (Å ²)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.91% 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: EDO, AXE

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	0.54	0/4114	0.79	0/5563

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	3988	0	4016	6	0
2	A	12	0	18	0	0
3	A	27	0	0	0	0
4	A	329	0	0	0	0
All	All	4356	0	4034	6	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 1.

All (6) 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:942[B]:GLU:OE2	1:A:942[B]:GLU:HA	2.02	0.59
1:A:715[B]:GLU:OE2	1:A:737[B]:ILE:HG12	2.02	0.59
1:A:821:LEU:HD11	1:A:934:LEU:HD21	1.86	0.56
1:A:629:THR:HG23	1:A:801:PRO:HB2	2.01	0.42
1:A:711:LEU:HD21	1:A:741[A]:LYS:HE3	2.03	0.40
1:A:641:LEU:O	1:A:645:ILE:HG12	2.21	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	Percentiles
1	A	479/490 (98%)	466 (97%)	13 (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	Rotameric	Outliers	Percentiles
1	A	451/452 (100%)	446 (99%)	5 (1%)	65 57

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	609	LEU

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Mol	Chain	Res	Type
1	A	647	ARG
1	A	679	LYS
1	A	726	MET
1	A	1044	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	764	HIS
1	A	1044	ASN

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 ⓘ

4 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	AXE	A	1104	-	29,30,30	1.25	3 (10%)	40,42,42	2.15	10 (25%)
2	EDO	A	1101	-	3,3,3	0.43	0	2,2,2	0.32	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	EDO	A	1102	-	3,3,3	0.46	0	2,2,2	0.30	0
2	EDO	A	1103	-	3,3,3	0.47	0	2,2,2	0.14	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	AXE	A	1104	-	-	7/12/12/12	0/4/4/4
2	EDO	A	1101	-	-	1/1/1/1	-
2	EDO	A	1102	-	-	1/1/1/1	-
2	EDO	A	1103	-	-	0/1/1/1	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1104	AXE	C3-C1	-2.69	1.41	1.44
3	A	1104	AXE	C4-C9	2.29	1.40	1.36
3	A	1104	AXE	C5-C10	2.06	1.40	1.36

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1104	AXE	C11-N8-C3	6.64	121.76	116.60
3	A	1104	AXE	N6-C11-N8	-5.45	121.27	128.67
3	A	1104	AXE	C11-N6-C2	4.78	120.86	115.43
3	A	1104	AXE	C1-C3-N8	-3.87	118.49	121.35
3	A	1104	AXE	O14-C10-C5	-3.50	120.72	125.16
3	A	1104	AXE	C3-C1-C2	3.17	117.73	115.86
3	A	1104	AXE	O14-C10-C9	3.14	119.66	115.40
3	A	1104	AXE	C1-C2-N6	-2.76	119.89	122.82
3	A	1104	AXE	C18-O14-C10	-2.50	113.84	117.51
3	A	1104	AXE	O13-C9-C10	2.06	118.20	115.40

There are no chirality outliers.

All (9) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1104	AXE	C9-C10-O14-C18
3	A	1104	AXE	C5-C10-O14-C18

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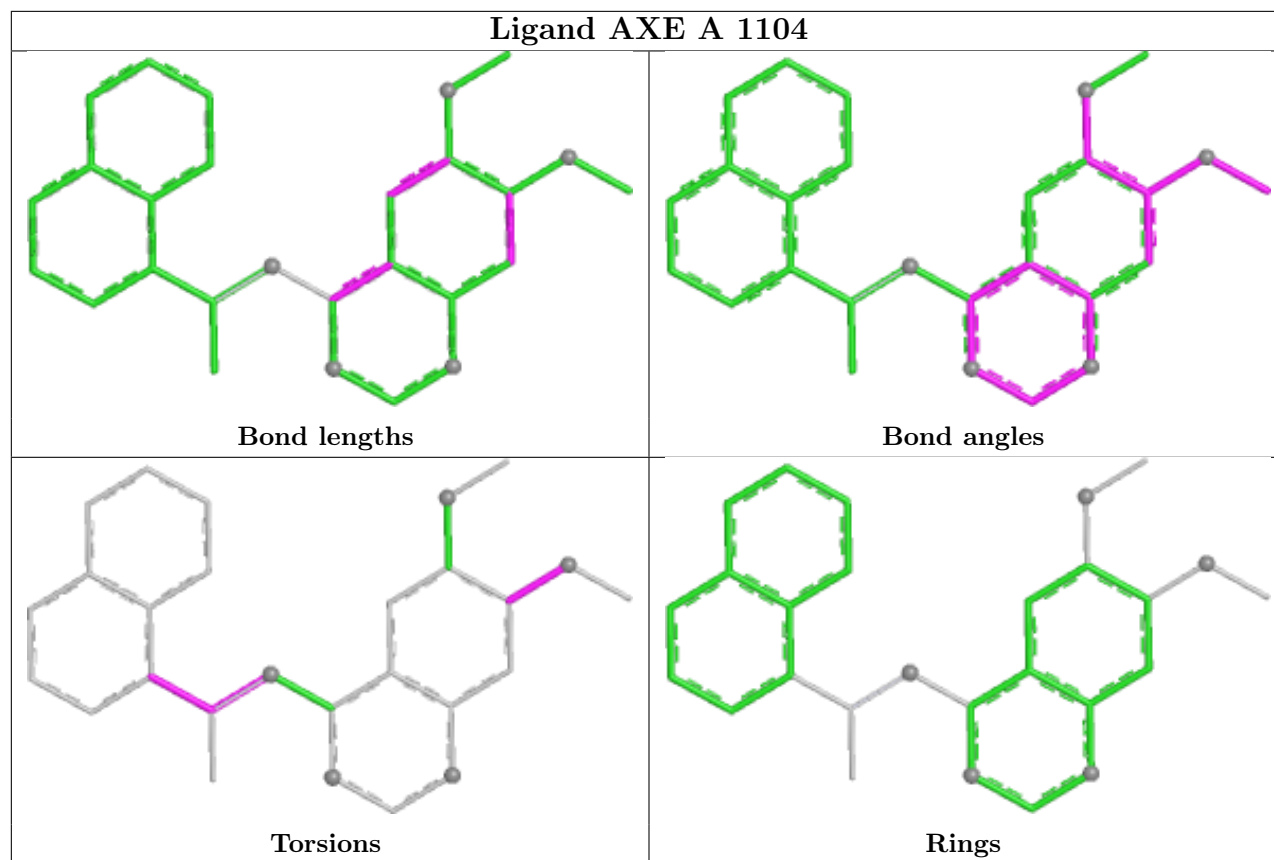
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Mol	Chain	Res	Type	Atoms
3	A	1104	AXE	N7-C12-C15-C19
3	A	1104	AXE	C16-C12-C15-C20
3	A	1104	AXE	C16-C12-C15-C19
2	A	1102	EDO	O1-C1-C2-O2
3	A	1104	AXE	C15-C12-N7-C3
2	A	1101	EDO	O1-C1-C2-O2
3	A	1104	AXE	N7-C12-C15-C20

There are no ring outliers.

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	472/490 (96%)	1.88	187 (39%) 1 0	20, 43, 90, 121	13 (2%)

All (187) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	717	PHE	6.4
1	A	690	LEU	6.2
1	A	1021	PRO	5.7
1	A	648	PHE	5.5
1	A	587	ILE	5.4
1	A	658	ALA	5.4
1	A	597	GLY	5.0
1	A	578	ALA	5.0
1	A	661	ILE	4.8
1	A	662	ALA	4.8
1	A	577	PHE	4.8
1	A	644	ILE	4.8
1	A	603	ALA	4.7
1	A	670	LEU	4.7
1	A	663	ILE	4.6
1	A	687	LEU	4.5
1	A	737[A]	ILE	4.5
1	A	708	ALA	4.5
1	A	719	GLY	4.4
1	A	955	LEU	4.3
1	A	742	ILE	4.3
1	A	733	ILE	4.0
1	A	674	LEU	3.9
1	A	721	VAL	3.9
1	A	655	PRO	3.9
1	A	668	GLN	3.8
1	A	574	VAL	3.7

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Mol	Chain	Res	Type	RSRZ
1	A	948	LEU	3.7
1	A	563	ALA	3.7
1	A	725	ALA	3.7
1	A	701	PHE	3.7
1	A	736	ILE	3.7
1	A	666	GLY	3.7
1	A	669	PRO	3.7
1	A	588	PHE	3.6
1	A	562	MET	3.6
1	A	685	VAL	3.6
1	A	726	MET	3.5
1	A	682	ILE	3.5
1	A	727	LYS	3.5
1	A	704	PHE	3.5
1	A	643	LEU	3.4
1	A	665	ASN	3.4
1	A	609	LEU	3.4
1	A	741[A]	LYS	3.4
1	A	859	LEU	3.4
1	A	718	ILE	3.3
1	A	947	VAL	3.3
1	A	753	THR	3.3
1	A	645	ILE	3.3
1	A	672	ALA	3.3
1	A	590	GLU	3.2
1	A	598	ILE	3.2
1	A	580	PRO	3.2
1	A	729	TRP	3.2
1	A	730[A]	VAL	3.2
1	A	628	LEU	3.2
1	A	681	TYR	3.2
1	A	692	VAL	3.2
1	A	711	LEU	3.2
1	A	651	PRO	3.1
1	A	744	ARG	3.1
1	A	660	ARG	3.1
1	A	919	LEU	3.1
1	A	606	VAL	3.1
1	A	743	ALA	3.0
1	A	601	ILE	3.0
1	A	745	ASP	3.0
1	A	586	ILE	3.0

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Mol	Chain	Res	Type	RSRZ
1	A	613	LEU	3.0
1	A	634	PHE	3.0
1	A	583	GLU	3.0
1	A	937	ILE	3.0
1	A	570	PRO	2.9
1	A	956	ILE	2.9
1	A	949	LYS	2.9
1	A	813	ASP	2.9
1	A	614	THR	2.9
1	A	715[A]	GLU	2.9
1	A	561	ALA	2.9
1	A	575[A]	TYR	2.9
1	A	623	PHE	2.9
1	A	671	SER	2.8
1	A	938	LEU	2.8
1	A	1024	LEU	2.8
1	A	697	VAL	2.8
1	A	572	ALA	2.8
1	A	710	LEU	2.8
1	A	709	TYR	2.8
1	A	677	PHE	2.8
1	A	816	ILE	2.8
1	A	617	MET	2.7
1	A	809	TRP	2.7
1	A	811	LYS	2.7
1	A	699	HIS	2.7
1	A	720	THR	2.7
1	A	754	PHE	2.7
1	A	896	ARG	2.7
1	A	934	LEU	2.7
1	A	618	TYR	2.6
1	A	702	TYR	2.6
1	A	635	CYS	2.6
1	A	640	LEU	2.6
1	A	667	ASP	2.6
1	A	624	VAL	2.6
1	A	868	PHE	2.6
1	A	1005	PHE	2.6
1	A	641	LEU	2.6
1	A	824	MET	2.6
1	A	689	VAL	2.6
1	A	950	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	1014	LEU	2.5
1	A	998	GLY	2.5
1	A	851	VAL	2.5
1	A	566	GLN	2.5
1	A	664	GLU	2.5
1	A	1001	MET	2.5
1	A	822	LEU	2.5
1	A	1019	ARG	2.5
1	A	607	ILE	2.5
1	A	999	ASN	2.4
1	A	1012	LYS	2.4
1	A	805	VAL	2.4
1	A	983	VAL	2.4
1	A	678	ARG	2.4
1	A	638	GLN	2.4
1	A	756	SER	2.4
1	A	901	LEU	2.4
1	A	605	THR	2.4
1	A	734	THR	2.4
1	A	995	ASN	2.4
1	A	922	ILE	2.4
1	A	714	MET	2.4
1	A	676	ARG	2.3
1	A	599	PRO	2.3
1	A	808	VAL	2.3
1	A	625	ARG	2.3
1	A	1016	ILE	2.3
1	A	996	PRO	2.3
1	A	604	GLY	2.3
1	A	791	LEU	2.3
1	A	804	LEU	2.3
1	A	728	LYS	2.3
1	A	814	LYS	2.3
1	A	990	PHE	2.3
1	A	600	ILE	2.3
1	A	696	TRP	2.2
1	A	637	PRO	2.2
1	A	622	ASN	2.2
1	A	914	LYS	2.2
1	A	872	LEU	2.2
1	A	1035	LEU	2.2
1	A	560	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	571	SER	2.2
1	A	723	GLY	2.2
1	A	1023	PRO	2.2
1	A	918	LYS	2.2
1	A	831	LEU	2.2
1	A	985	SER	2.2
1	A	722	ARG	2.2
1	A	927	VAL	2.2
1	A	619	ALA	2.2
1	A	1008	TYR	2.1
1	A	738	GLN	2.1
1	A	834	TRP	2.1
1	A	964	VAL	2.1
1	A	921	SER	2.1
1	A	653	PRO	2.1
1	A	963	LYS	2.1
1	A	627	PHE	2.1
1	A	825	ILE	2.1
1	A	900	ILE	2.1
1	A	1002	GLU	2.1
1	A	917	ALA	2.1
1	A	932	ILE	2.1
1	A	974	TYR	2.1
1	A	951	HIS	2.1
1	A	569	LEU	2.1
1	A	779	LEU	2.1
1	A	610	ILE	2.0
1	A	724	LYS	2.0
1	A	994	LEU	2.0
1	A	1009	LEU	2.0
1	A	707	ASP	2.0
1	A	757	SER	2.0
1	A	925	PRO	2.0
1	A	883	VAL	2.0

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

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

6.3 Carbohydrates [i](#)

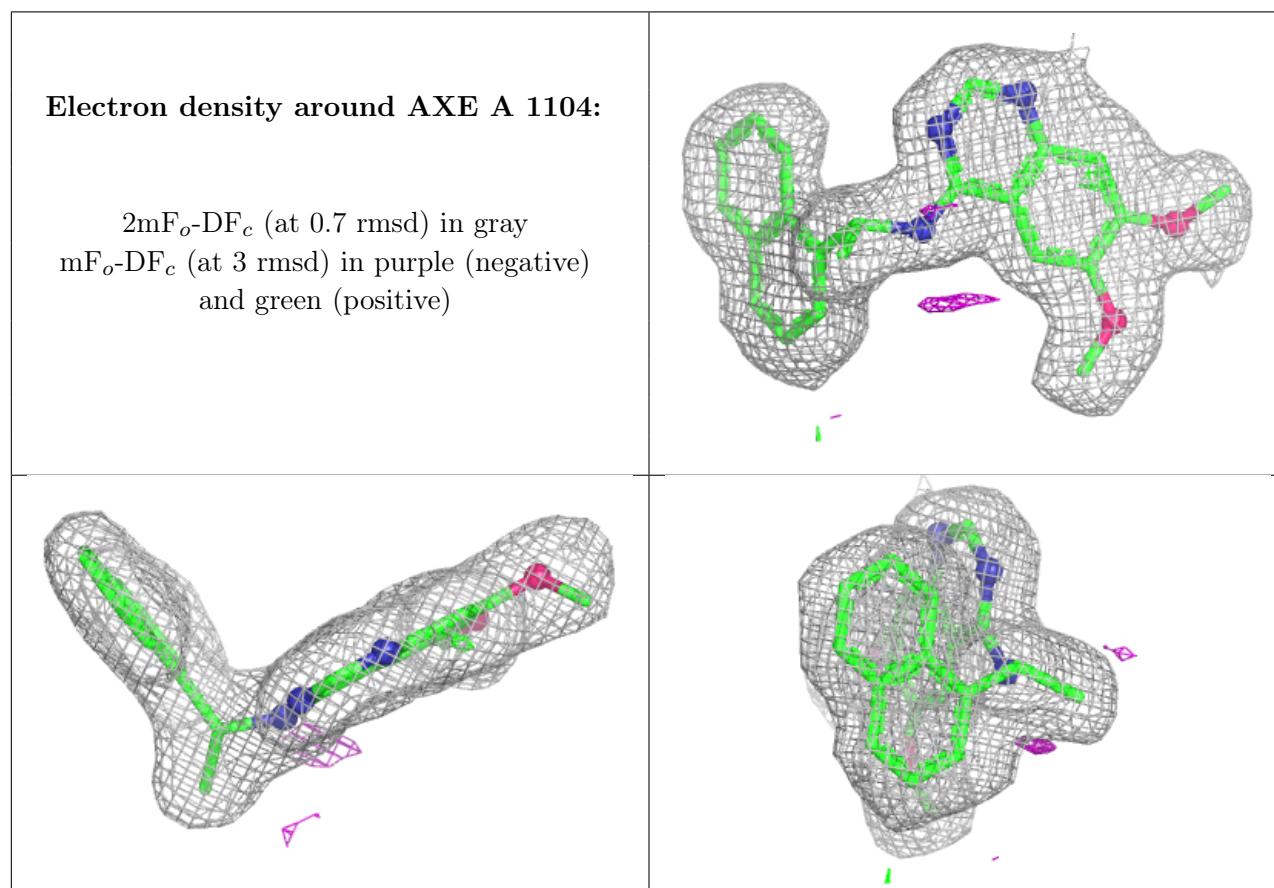
There are no oligosaccharides in this entry.

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	1103	4/4	0.81	0.14	38,43,43,48	0
2	EDO	A	1101	4/4	0.82	0.13	72,73,73,73	0
2	EDO	A	1102	4/4	0.85	0.14	38,41,42,44	0
3	AXE	A	1104	27/27	0.90	0.10	29,32,37,43	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.