



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 24, 2026 – 04:08 PM JST

PDB ID : 9WFE / pdb_00009wfe
Title : Aquifex aeolicus IscS2 with 2 mutations
Authors : Fujishiro, T.
Deposited on : 2025-08-21
Resolution : 2.90 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
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

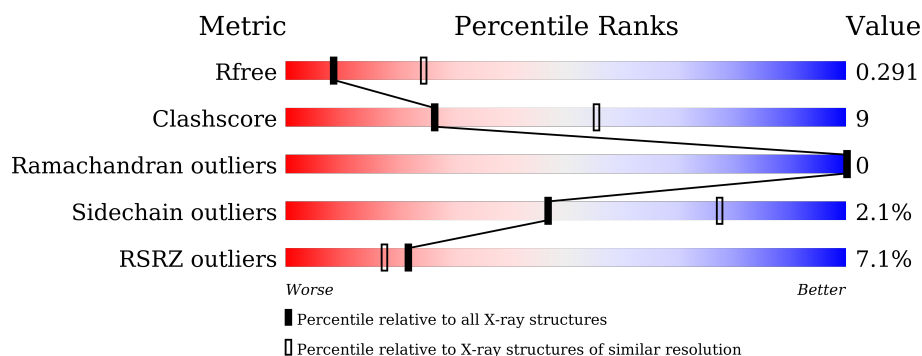
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.90 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	2481 (2.90-2.90)
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RSRZ outliers	180081	2481 (2.90-2.90)

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	406	4% 73% 19% 8%
1	B	406	9% 68% 22% 9%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5850 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 cysteine desulfurase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	374	Total	C	N	O	S	0	0	0
			2932	1861	513	551	7			
1	B	369	Total	C	N	O	S	0	0	0
			2904	1845	508	544	7			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	159	ASN	ARG	engineered mutation	UNP O66947
A	212	LYS	LEU	engineered mutation	UNP O66947
B	159	ASN	ARG	engineered mutation	UNP O66947
B	212	LYS	LEU	engineered mutation	UNP O66947

- Molecule 2 is CHLORIDE ION (CCD ID: CL) (formula: Cl) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Cl	0	0
			2	2		

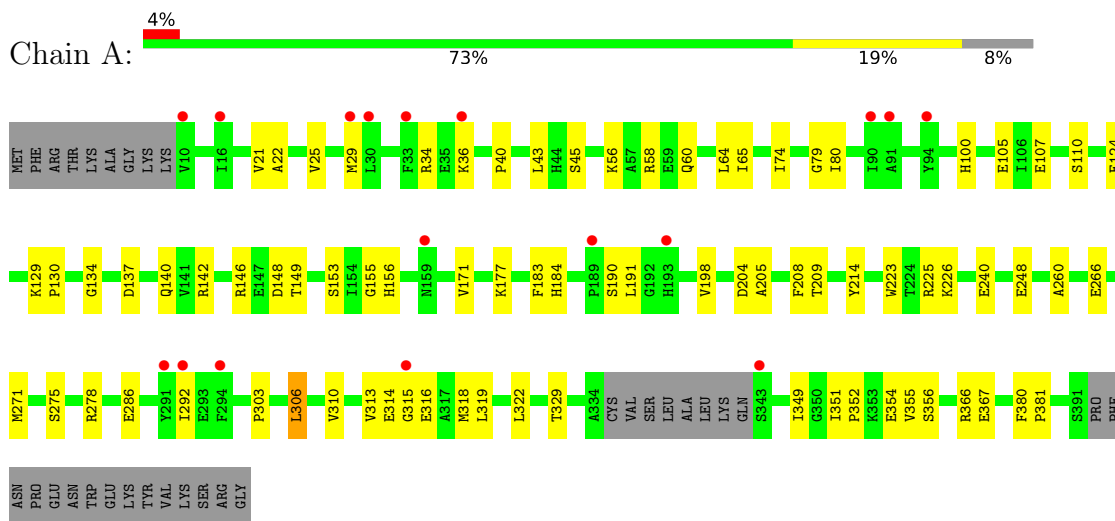
- Molecule 3 is water.

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

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: cysteine desulfurase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	63.96Å 61.73Å 109.60Å 90.00° 97.55° 90.00°	Depositor
Resolution (Å)	36.22 – 2.90 36.22 – 2.90	Depositor EDS
% Data completeness (in resolution range)	96.5 (36.22-2.90) 96.9 (36.22-2.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.80 (at 2.90Å)	Xtriage
Refinement program	PHENIX (1.21.1_5286: ???)	Depositor
R, R_{free}	0.238 , 0.291 0.238 , 0.291	Depositor DCC
R_{free} test set	924 reflections (4.85%)	wwPDB-VP
Wilson B-factor (Å ²)	65.9	Xtriage
Anisotropy	0.275	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 24.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	5850	wwPDB-VP
Average B, all atoms (Å ²)	68.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.10% 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: CL

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	0.22	0/2993	0.52	0/4049
1	B	0.25	0/2965	0.52	0/4011
All	All	0.24	0/5958	0.52	0/8060

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	2932	0	2934	49	0
1	B	2904	0	2907	64	0
2	A	2	0	0	0	0
3	A	8	0	0	0	0
3	B	4	0	0	0	0
All	All	5850	0	5841	108	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 9.

All (108) 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:292:ILE:HG22	1:B:310:VAL:HG12	1.49	0.95
1:B:100:HIS:HD1	1:B:149:THR:HG1	0.96	0.93
1:A:100:HIS:HD1	1:A:149:THR:HG1	1.19	0.90
1:A:319:LEU:HD23	1:A:329:THR:HG23	1.68	0.75
1:B:168:LYS:HD2	1:B:168:LYS:H	1.55	0.71
1:B:101:ILE:HB	1:B:125:VAL:HG22	1.74	0.69
1:B:13:VAL:HG23	1:B:329:THR:HB	1.76	0.68
1:A:58:ARG:NH2	1:A:240:GLU:OE1	2.31	0.63
1:B:71:GLU:N	1:B:71:GLU:OE1	2.32	0.61
1:B:184:HIS:HA	1:B:205:ALA:O	1.99	0.61
1:B:139:GLU:OE2	1:B:142:ARG:NH1	2.34	0.61
1:B:116:LYS:O	1:B:120:ARG:HG3	2.01	0.60
1:A:318:MET:HG2	1:A:380:PHE:HE1	1.66	0.60
1:B:281:LEU:HA	1:B:377:LEU:HD11	1.85	0.59
1:B:56:LYS:O	1:B:60:GLN:HG3	2.04	0.58
1:B:100:HIS:HB3	1:B:149:THR:HA	1.86	0.57
1:B:86:ALA:O	1:B:90:ILE:HB	2.04	0.57
1:B:64:LEU:HG	1:B:191:LEU:HD11	1.87	0.56
1:A:74:ILE:HG23	1:A:240:GLU:HB3	1.88	0.56
1:B:271:MET:O	1:B:275:SER:HB3	2.05	0.55
1:A:80:ILE:HD12	1:B:246:GLY:HA2	1.88	0.55
1:A:271:MET:O	1:A:275:SER:HB3	2.06	0.55
1:B:325:MET:HE3	1:B:379:GLU:HG3	1.87	0.54
1:A:156:HIS:ND1	1:A:190:SER:OG	2.32	0.54
1:B:286:GLU:HG3	1:B:294:PHE:CE2	2.42	0.54
1:A:124:GLU:CD	1:A:146:ARG:HH22	2.17	0.53
1:B:313:VAL:HG12	1:B:315:GLY:H	1.74	0.52
1:A:146:ARG:NH1	1:A:148:ASP:OD2	2.43	0.52
1:B:278:ARG:HG2	1:B:306:LEU:HB2	1.92	0.52
1:B:167:ILE:O	1:B:171:VAL:HG13	2.10	0.52
1:A:100:HIS:HB3	1:A:149:THR:HA	1.92	0.51
1:B:24:GLU:H	1:B:24:GLU:CD	2.15	0.51
1:A:25:VAL:O	1:A:29:MET:HG3	2.11	0.51
1:A:21:VAL:O	1:B:34:ARG:NE	2.41	0.51
1:A:191:LEU:HD22	1:A:208:PHE:CD1	2.47	0.51
1:B:191:LEU:HD22	1:B:208:PHE:CD1	2.46	0.50
1:B:281:LEU:HD12	1:B:377:LEU:HD12	1.92	0.50
1:A:105:GLU:OE1	1:A:129:LYS:HD3	2.12	0.50
1:B:142:ARG:NH2	1:B:176:GLU:OE1	2.45	0.50
1:B:25:VAL:O	1:B:29:MET:HG3	2.11	0.49
1:A:56:LYS:O	1:A:60:GLN:HG3	2.13	0.49
1:A:349:ILE:HG13	1:A:351:ILE:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:ILE:HG23	1:B:240:GLU:HB3	1.95	0.49
1:A:367:GLU:CD	1:B:34:ARG:HH22	2.20	0.49
1:B:183:PHE:CD1	1:B:203:VAL:HG12	2.48	0.48
1:B:319:LEU:HD21	1:B:360:VAL:HG22	1.96	0.48
1:B:65:ILE:HB	1:B:198:VAL:CG2	2.43	0.48
1:B:295:THR:O	1:B:301:ARG:NH2	2.47	0.48
1:A:137:ASP:HB3	1:A:140:GLN:HG3	1.95	0.48
1:A:130:PRO:HB2	1:A:134:GLY:HA2	1.95	0.47
1:A:64:LEU:HD22	1:A:260:ALA:HA	1.96	0.47
1:A:64:LEU:HG	1:A:191:LEU:HD11	1.95	0.47
1:B:365:GLY:H	1:B:368:ASN:HD22	1.62	0.47
1:B:322:LEU:HD21	1:B:380:PHE:CD1	2.49	0.47
1:B:318:MET:HA	1:B:387:LEU:HD11	1.96	0.47
1:B:205:ALA:HA	1:B:223:TRP:O	2.14	0.47
1:B:76:THR:HB	1:B:81:GLU:CD	2.41	0.46
1:A:214:TYR:CZ	1:A:366:ARG:HB2	2.50	0.46
1:B:264:MET:HE3	1:B:264:MET:HB3	1.82	0.46
1:B:279:ASP:OD1	1:B:282:ARG:NH2	2.48	0.46
1:A:80:ILE:HG12	1:A:110:SER:HB3	1.96	0.46
1:A:316:GLU:HA	1:A:319:LEU:HD12	1.98	0.46
1:B:168:LYS:O	1:B:171:VAL:HG22	2.16	0.46
1:A:313:VAL:HG12	1:A:315:GLY:H	1.80	0.46
1:B:153:SER:HA	1:B:184:HIS:O	2.16	0.46
1:B:214:TYR:CZ	1:B:366:ARG:HG2	2.50	0.46
1:A:22:ALA:HA	1:B:34:ARG:HH21	1.80	0.46
1:A:40:PRO:HG2	1:A:248:GLU:HB2	1.97	0.46
1:A:286:GLU:HA	1:A:292:ILE:HD11	1.97	0.46
1:B:156:HIS:ND1	1:B:190:SER:OG	2.38	0.46
1:B:97:ARG:NE	1:B:180:LYS:HD2	2.31	0.45
1:A:266:GLU:OE1	1:A:366:ARG:HD2	2.17	0.45
1:B:371:GLU:OE1	1:B:371:GLU:N	2.39	0.45
1:A:275:SER:HA	1:A:303:PRO:O	2.17	0.45
1:A:322:LEU:HD11	1:A:380:PHE:CD1	2.51	0.45
1:A:142:ARG:HD2	1:A:177:LYS:HB2	1.98	0.44
1:B:184:HIS:HB2	1:B:205:ALA:HB3	1.98	0.44
1:A:352:PRO:O	1:A:355:VAL:HG22	2.17	0.44
1:A:226:LYS:HD2	1:A:226:LYS:HA	1.68	0.44
1:A:171:VAL:HG22	1:A:183:PHE:CG	2.53	0.43
1:B:80:ILE:HG13	1:B:110:SER:HB3	2.00	0.43
1:B:278:ARG:CG	1:B:306:LEU:HB2	2.48	0.43
1:B:35:GLU:H	1:B:35:GLU:HG2	1.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:118:LEU:HD23	1:B:118:LEU:HA	1.91	0.43
1:A:184:HIS:HB2	1:A:205:ALA:HB3	2.01	0.43
1:A:142:ARG:HH11	1:A:177:LYS:HA	1.84	0.43
1:B:231:LYS:HB2	1:B:231:LYS:HE2	1.77	0.42
1:B:274:LEU:HD22	1:B:364:PHE:HB3	2.01	0.42
1:A:153:SER:HA	1:A:184:HIS:O	2.20	0.42
1:A:36:LYS:HB3	1:A:36:LYS:HE3	1.85	0.41
1:A:107:GLU:CD	1:A:155:GLY:H	2.29	0.41
1:A:380:PHE:HB3	1:A:381:PRO:HD3	2.02	0.41
1:B:321:ARG:HD3	1:B:324:LEU:HD13	2.01	0.41
1:A:22:ALA:HB3	1:A:25:VAL:HG23	2.01	0.41
1:A:79:GLY:HA3	1:A:209:THR:OG1	2.19	0.41
1:B:280:LYS:HE2	1:B:370:GLU:HG3	2.01	0.41
1:A:205:ALA:HA	1:A:223:TRP:O	2.20	0.41
1:A:65:ILE:O	1:A:198:VAL:HG22	2.21	0.41
1:B:385:ASN:O	1:B:389:GLU:HG3	2.20	0.41
1:A:278:ARG:HG3	1:A:306:LEU:HB2	2.02	0.41
1:A:204:ASP:OD2	1:A:225:ARG:NH2	2.49	0.41
1:B:267:LEU:O	1:B:271:MET:HG3	2.21	0.41
1:A:34:ARG:HE	1:B:23:GLU:HG2	1.86	0.40
1:B:183:PHE:HD1	1:B:203:VAL:HG12	1.87	0.40
1:B:19:THR:HB	1:B:214:TYR:CD1	2.56	0.40
1:B:354:GLU:CD	1:B:354:GLU:H	2.28	0.40
1:B:69:ILE:HD13	1:B:71:GLU:HB2	2.03	0.40
1:B:185:THR:O	1:B:206:ALA:HA	2.21	0.40

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	370/406 (91%)	352 (95%)	18 (5%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	365/406 (90%)	351 (96%)	14 (4%)	0	100	100
All	All	735/812 (90%)	703 (96%)	32 (4%)	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	A	313/341 (92%)	306 (98%)	7 (2%)	45	77
1	B	310/341 (91%)	304 (98%)	6 (2%)	50	79
All	All	623/682 (91%)	610 (98%)	13 (2%)	47	77

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	43	LEU
1	A	45	SER
1	A	306	LEU
1	A	310	VAL
1	A	314	GLU
1	A	354	GLU
1	A	356	SER
1	B	34	ARG
1	B	35	GLU
1	B	267	LEU
1	B	282	ARG
1	B	291	TYR
1	B	379	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	15	HIS
1	A	211	HIS
1	A	276	HIS
1	B	95	GLN
1	B	159	ASN
1	B	166	ASN
1	B	199	GLN
1	B	276	HIS
1	B	368	ASN

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](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

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	374/406 (92%)	0.78	17 (4%) 38 30	45, 60, 82, 106	0
1	B	369/406 (90%)	1.03	36 (9%) 13 11	47, 70, 100, 140	0
All	All	743/812 (91%)	0.90	53 (7%) 22 17	45, 65, 93, 140	0

All (53) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	285	LEU	4.7
1	B	170	LEU	4.0
1	B	291	TYR	3.8
1	B	312	PHE	3.7
1	A	10	VAL	3.7
1	A	91	ALA	3.4
1	B	74	ILE	3.2
1	A	291	TYR	3.1
1	B	61	VAL	3.0
1	B	384	ILE	3.0
1	B	283	LYS	2.9
1	A	292	ILE	2.9
1	B	313	VAL	2.9
1	B	355	VAL	2.8
1	A	159	ASN	2.8
1	B	387	LEU	2.8
1	B	247	THR	2.8
1	A	343	SER	2.8
1	B	286	GLU	2.7
1	B	362	PHE	2.7
1	B	352	PRO	2.6
1	A	33	PHE	2.6
1	B	180	LYS	2.6
1	A	16	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	281	LEU	2.5
1	B	12	TYR	2.5
1	B	226	LYS	2.4
1	A	90	ILE	2.4
1	B	383	VAL	2.4
1	A	36	LYS	2.4
1	B	18	THR	2.4
1	B	236	GLY	2.3
1	B	169	GLU	2.3
1	B	15	HIS	2.3
1	A	315	GLY	2.3
1	B	365	GLY	2.3
1	B	187	ALA	2.3
1	A	193	HIS	2.3
1	B	310	VAL	2.3
1	A	189	PRO	2.2
1	B	183	PHE	2.2
1	A	30	LEU	2.2
1	A	94	TYR	2.2
1	B	194	TYR	2.2
1	B	364	PHE	2.2
1	B	159	ASN	2.1
1	B	380	PHE	2.1
1	B	166	ASN	2.1
1	B	289	VAL	2.1
1	B	360	VAL	2.1
1	B	13	VAL	2.1
1	A	294	PHE	2.0
1	A	29	MET	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](#)

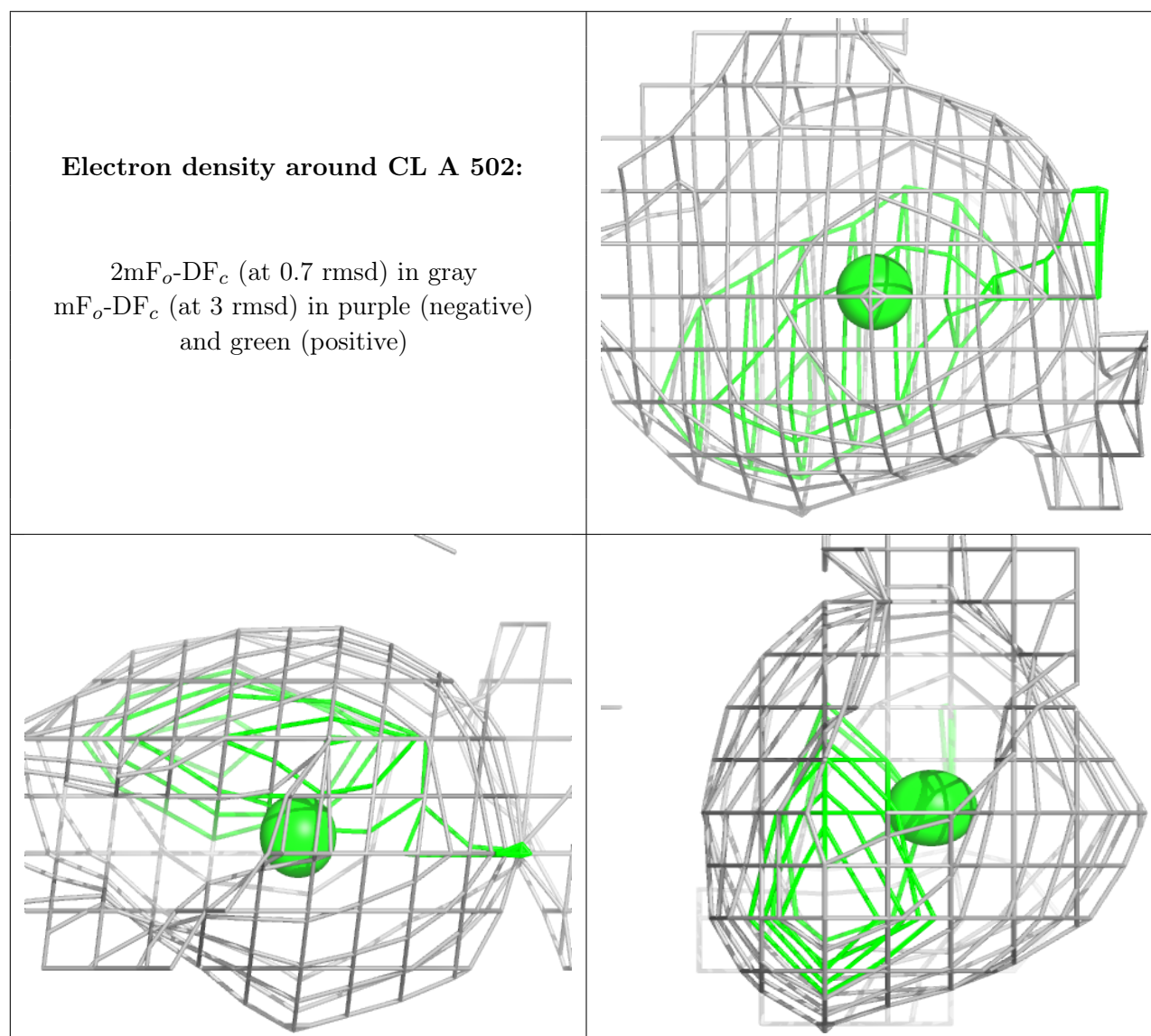
There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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.

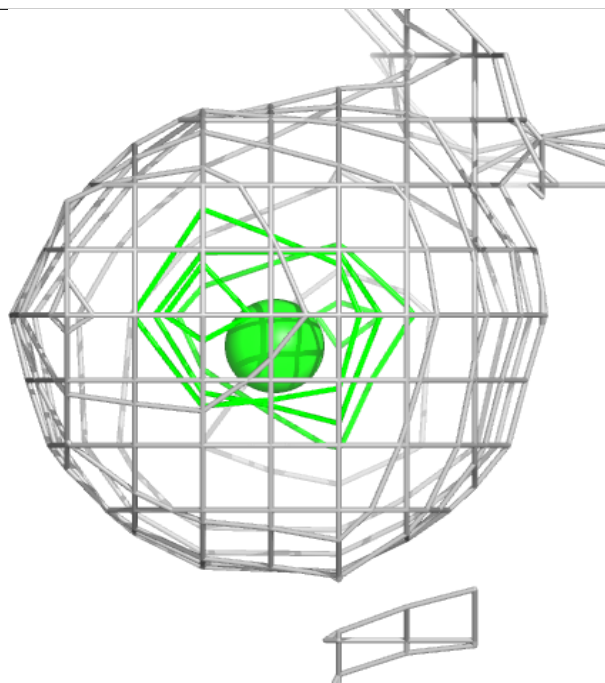
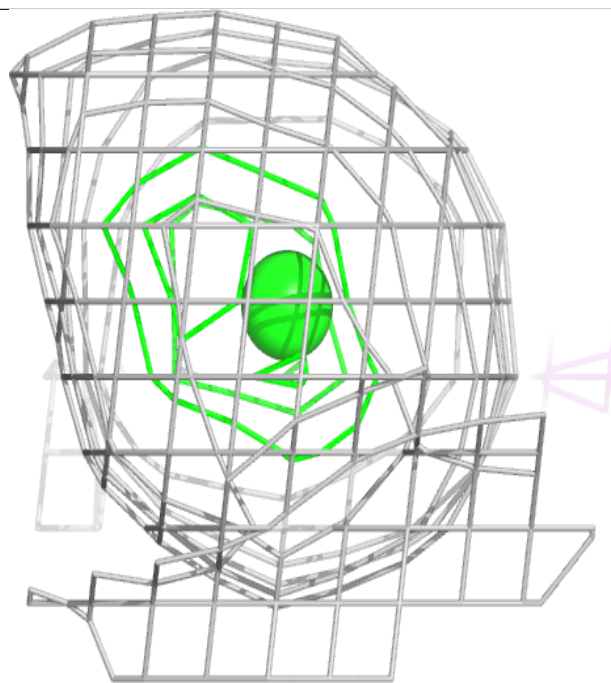
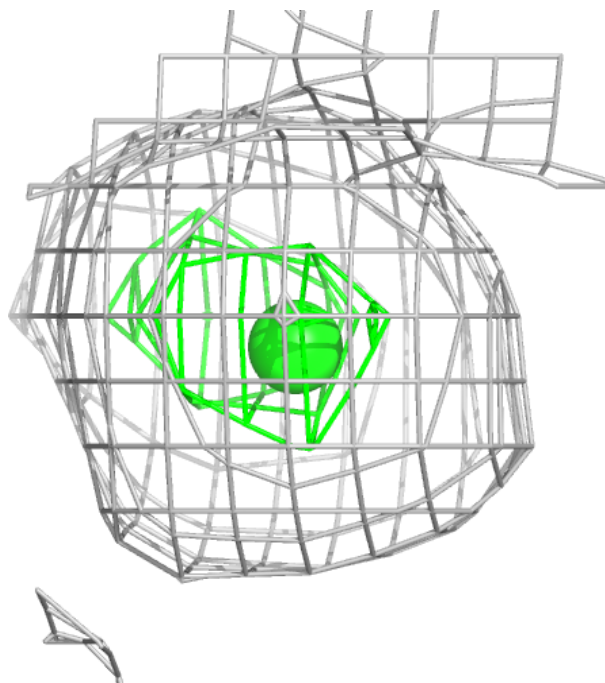
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	CL	A	502	1/1	0.87	0.30	63,63,63,63	0
2	CL	A	501	1/1	0.97	0.27	56,56,56,56	0

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 CL A 501:

$2mF_o - DF_c$ (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.