



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 04:40 PM UTC

PDB ID : 1LMC / pdb_00001lmc
Title : THE CRYSTAL STRUCTURE OF A COMPLEX BETWEEN BULGECIN,
A BACTERIAL METABOLITE, AND LYSOZYME FROM THE RAINBOW
TROUT
Authors : Karlsen, S.; Hough, E.
Deposited on : 1994-11-14
Resolution : 2.00 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)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

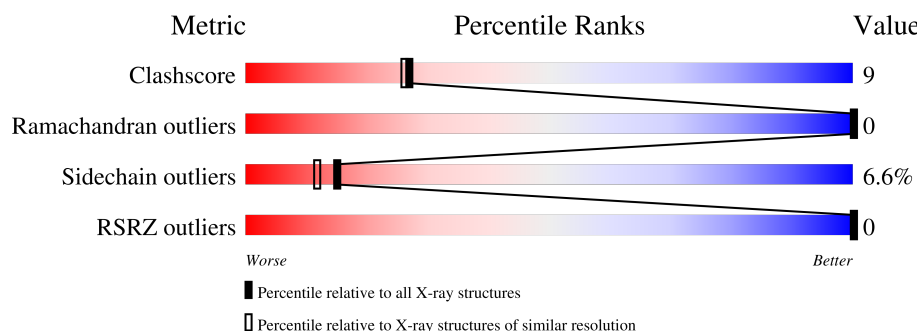
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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))
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	129	60% 30% 9%

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
2	BUL	A	130	X	-	-	-

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 1144 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.

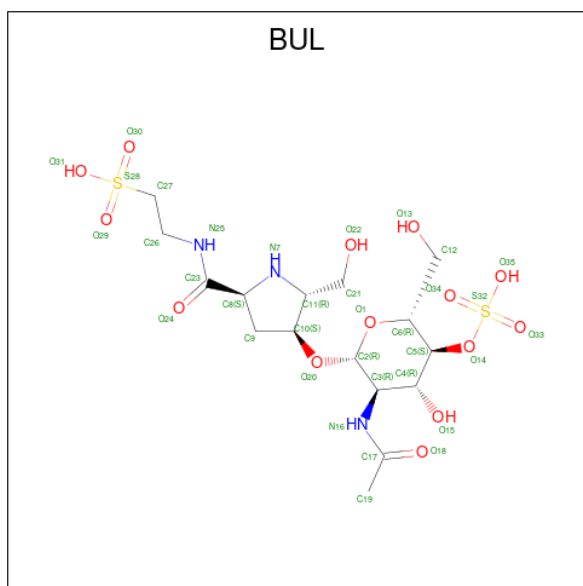
- Molecule 1 is a protein called LYSOZYME.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	129	Total	C	N	O	S	0	0	0
			999	616	185	189	9			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	86	ASP	ALA	conflict	UNP P11941

- Molecule 2 is BULGECIN A (CCD ID: BUL) (formula: $C_{16}H_{29}N_3O_{14}S_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	35	0
			35	16	3	14	2		

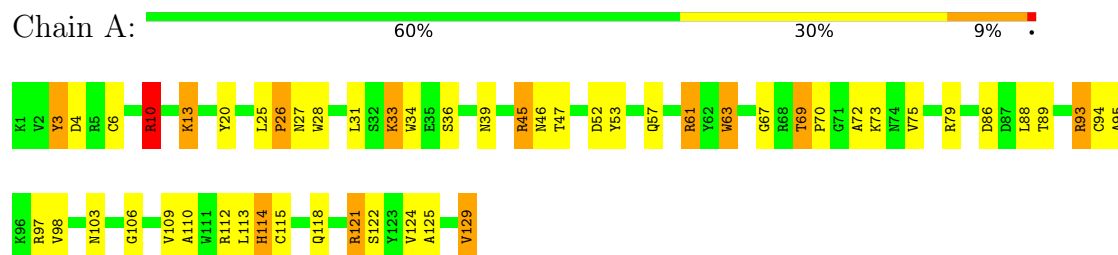
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	110	Total 110	O 110	0	0

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: LYSOZYME



4 Data and refinement statistics

Property	Value	Source
Space group	P 31 2 1	Depositor
Cell constants a, b, c, α , β , γ	76.57Å 76.57Å 54.40Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	8.00 – 2.00 8.00 – 2.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (8.00-2.00) 84.3 (8.00-2.00)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.50 (at 2.00Å)	Xtriage
Refinement program	PROLSQ	Depositor
R, R_{free}	0.163 , (Not available) 0.181 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	26.5	Xtriage
Anisotropy	0.013	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 76.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	0.035 for -h,-k,l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	1144	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 7.95% 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: BUL

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	1.08	1/1019 (0.1%)	2.28	55/1383 (4.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	103	ASN	C-N	5.23	1.40	1.33

All (55) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	39	ASN	OD1-CG-ND2	-9.80	112.80	122.60
1	A	114	HIS	CA-CB-CG	-8.92	104.88	113.80
1	A	98	VAL	CA-C-O	-8.18	112.50	121.17
1	A	28	TRP	CA-C-O	-7.97	111.97	120.42
1	A	13	LYS	CB-CG-CD	7.75	129.12	111.30
1	A	112	ARG	CD-NE-CZ	7.38	134.73	124.40
1	A	46	ASN	CA-CB-CG	-7.37	105.23	112.60
1	A	110	ALA	CA-C-O	-7.36	111.50	119.97
1	A	89	THR	CA-C-O	-7.32	113.07	120.90
1	A	129	VAL	CA-C-O	-7.22	108.53	120.80
1	A	3	TYR	CA-C-N	7.17	131.67	121.42
1	A	3	TYR	C-N-CA	7.17	131.67	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	121	ARG	CA-C-O	7.08	128.48	120.90
1	A	63	TRP	CA-C-O	-6.72	111.82	119.41
1	A	86	ASP	CA-CB-CG	6.66	119.25	112.60
1	A	97	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	A	69	THR	CA-CB-OG1	-6.62	99.67	109.60
1	A	115	CYS	CA-C-O	-6.58	111.81	119.64
1	A	114	HIS	N-CA-C	6.49	121.37	113.38
1	A	115	CYS	O-C-N	6.47	130.77	122.10
1	A	26	PRO	CA-C-N	6.46	128.84	120.44
1	A	26	PRO	C-N-CA	6.46	128.84	120.44
1	A	72	ALA	CA-C-O	-6.42	113.54	120.92
1	A	27	ASN	O-C-N	6.29	128.55	122.07
1	A	39	ASN	CA-CB-CG	6.27	118.87	112.60
1	A	72	ALA	O-C-N	6.11	130.25	123.16
1	A	33	LYS	CA-C-N	6.05	128.89	120.29
1	A	33	LYS	C-N-CA	6.05	128.89	120.29
1	A	61	ARG	NE-CZ-NH2	-6.04	113.77	119.20
1	A	79	ARG	N-CA-C	-5.94	99.97	109.96
1	A	95	ALA	O-C-N	-5.68	116.10	122.12
1	A	13	LYS	CA-CB-CG	5.63	125.37	114.10
1	A	61	ARG	CA-CB-CG	-5.62	102.85	114.10
1	A	124	VAL	CA-C-O	5.60	124.25	119.38
1	A	34	TRP	CA-CB-CG	-5.59	102.98	113.60
1	A	69	THR	O-C-N	5.56	128.18	121.29
1	A	4	ASP	N-CA-C	-5.55	101.43	110.20
1	A	95	ALA	CA-C-O	5.52	126.40	120.55
1	A	95	ALA	CA-C-N	5.46	127.59	120.28
1	A	95	ALA	C-N-CA	5.46	127.59	120.28
1	A	109	VAL	CA-C-O	-5.38	115.47	121.17
1	A	53	TYR	N-CA-C	5.29	117.71	108.76
1	A	106	GLY	N-CA-C	-5.27	108.78	115.31
1	A	34	TRP	CA-C-O	-5.25	114.85	120.42
1	A	114	HIS	CA-C-O	-5.25	113.17	119.15
1	A	129	VAL	N-CA-CB	5.25	120.42	111.50
1	A	10	ARG	CD-NE-CZ	-5.22	117.09	124.40
1	A	125	ALA	CA-C-O	5.21	126.86	120.92
1	A	20	TYR	CA-C-N	5.21	129.52	122.07
1	A	20	TYR	C-N-CA	5.21	129.52	122.07
1	A	47	THR	CA-CB-OG1	-5.18	101.83	109.60
1	A	94	CYS	CA-C-N	5.16	127.19	120.28
1	A	94	CYS	C-N-CA	5.16	127.19	120.28
1	A	79	ARG	CA-CB-CG	5.08	124.27	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	36	SER	CA-CB-OG	-5.02	101.05	111.10

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	10	ARG	Sidechain
1	A	45	ARG	Sidechain
1	A	93	ARG	Sidechain

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	999	0	956	18	1
2	A	35	0	25	0	0
3	A	110	0	0	5	2
All	All	1144	0	981	18	3

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 (18) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance ($\text{\AA}$)	Clash overlap ($\text{\AA}$)
1:A:45:ARG:HB2	1:A:45:ARG:HH11	1.54	0.73
1:A:67:GLY:HA2	3:A:164:HOH:O	1.92	0.69
1:A:3:TYR:CE1	1:A:88:LEU:HD11	2.38	0.59
1:A:25:LEU:HB3	1:A:26:PRO:HD3	1.87	0.56
1:A:3:TYR:CZ	1:A:88:LEU:HD11	2.41	0.56
1:A:3:TYR:OH	1:A:88:LEU:HD13	2.06	0.56
1:A:3:TYR:OH	1:A:88:LEU:CD1	2.56	0.54
1:A:52:ASP:HB3	1:A:57:GLN:HB3	1.93	0.50
1:A:3:TYR:CZ	1:A:88:LEU:CD1	2.95	0.49
1:A:93:ARG:HD2	3:A:184:HOH:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:ARG:HG2	1:A:129:VAL:HG11	1.95	0.47
1:A:63:TRP:CZ3	1:A:75:VAL:HG11	2.53	0.44
1:A:114:HIS:HD2	3:A:212:HOH:O	2.01	0.43
1:A:69:THR:HA	1:A:70:PRO:HD3	1.88	0.43
1:A:6:CYS:O	1:A:10:ARG:HG3	2.18	0.43
1:A:114:HIS:O	1:A:118:GLN:HG3	2.19	0.42
1:A:10:ARG:NH1	3:A:160:HOH:O	2.12	0.41
1:A:10:ARG:HD3	3:A:160:HOH:O	2.22	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:169:HOH:O	3:A:169:HOH:O[4_556]	0.95	1.25
3:A:143:HOH:O	3:A:143:HOH:O[4_556]	1.25	0.95
1:A:113:LEU:CD1	1:A:113:LEU:CD1[5_675]	2.11	0.09

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	127/129 (98%)	127 (100%)	0	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	106/106 (100%)	99 (93%)	7 (7%)	15	12

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	13	LYS
1	A	31	LEU
1	A	33	LYS
1	A	61	ARG
1	A	73	LYS
1	A	121	ARG
1	A	122	SER

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	23	ASN
1	A	39	ASN
1	A	46	ASN
1	A	57	GLN
1	A	114	HIS

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](#)

1 ligand is 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	BUL	A	130	-	36,36,36	1.78	8 (22%)	43,53,53	3.13	20 (46%)

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	BUL	A	130	-	1/1/12/15	9/28/60/60	0/2/2/2

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	130	BUL	C11-N7	4.95	1.55	1.48
2	A	130	BUL	C27-S28	4.64	1.84	1.77
2	A	130	BUL	C8-N7	3.97	1.55	1.46
2	A	130	BUL	O20-C10	-2.88	1.39	1.44
2	A	130	BUL	O1-C6	-2.69	1.37	1.44
2	A	130	BUL	C5-C6	-2.53	1.46	1.52
2	A	130	BUL	C26-N25	2.28	1.51	1.46
2	A	130	BUL	C9-C10	2.00	1.57	1.52

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	130	BUL	O15-C4-C3	-9.03	91.61	109.58
2	A	130	BUL	O24-C23-C8	-6.98	105.86	120.48
2	A	130	BUL	O35-S32-O34	-6.23	86.76	108.56
2	A	130	BUL	O1-C6-C5	5.69	121.50	109.72
2	A	130	BUL	O30-S28-O29	5.53	131.82	113.82
2	A	130	BUL	O34-S32-O33	5.25	132.49	112.24
2	A	130	BUL	O29-S28-C27	-4.57	99.83	106.73
2	A	130	BUL	O1-C6-C12	3.78	115.80	106.44
2	A	130	BUL	C8-C23-N25	-3.46	109.10	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	130	BUL	C9-C10-C11	3.41	108.81	103.88
2	A	130	BUL	O20-C2-O1	-3.18	102.32	110.69
2	A	130	BUL	O31-S28-O30	-2.97	103.96	111.40
2	A	130	BUL	O15-C4-C5	-2.97	102.34	109.94
2	A	130	BUL	C4-C3-N16	2.87	115.90	110.62
2	A	130	BUL	C9-C8-C23	-2.84	106.97	111.38
2	A	130	BUL	C12-C6-C5	2.72	121.04	113.38
2	A	130	BUL	C21-C11-N7	-2.72	106.69	111.47
2	A	130	BUL	O30-S28-C27	-2.61	102.78	106.73
2	A	130	BUL	O24-C23-N25	2.39	128.03	122.98
2	A	130	BUL	O14-C5-C4	-2.08	96.99	107.12

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	130	BUL	C6

All (9) torsion outliers are listed below:

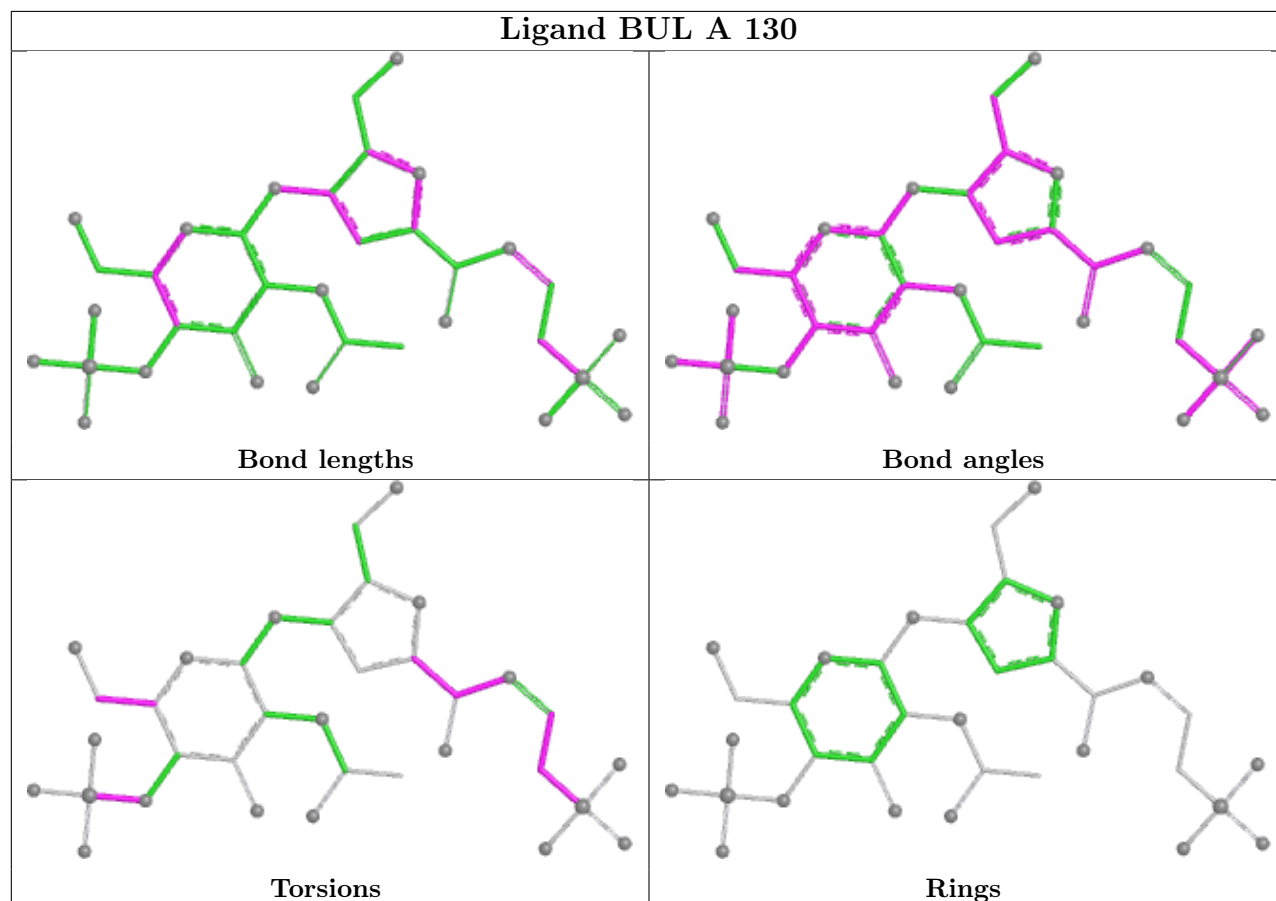
Mol	Chain	Res	Type	Atoms
2	A	130	BUL	O24-C23-C8-C9
2	A	130	BUL	N25-C23-C8-C9
2	A	130	BUL	N25-C26-C27-S28
2	A	130	BUL	C8-C23-N25-C26
2	A	130	BUL	O13-C12-C6-C5
2	A	130	BUL	C26-C27-S28-O31
2	A	130	BUL	C5-O14-S32-O33
2	A	130	BUL	C5-O14-S32-O35
2	A	130	BUL	C26-C27-S28-O30

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 [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	A	129/129 (100%)	-0.83	0 100 100	15, 21, 47, 67	0

There are no RSRZ outliers to report.

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](#)

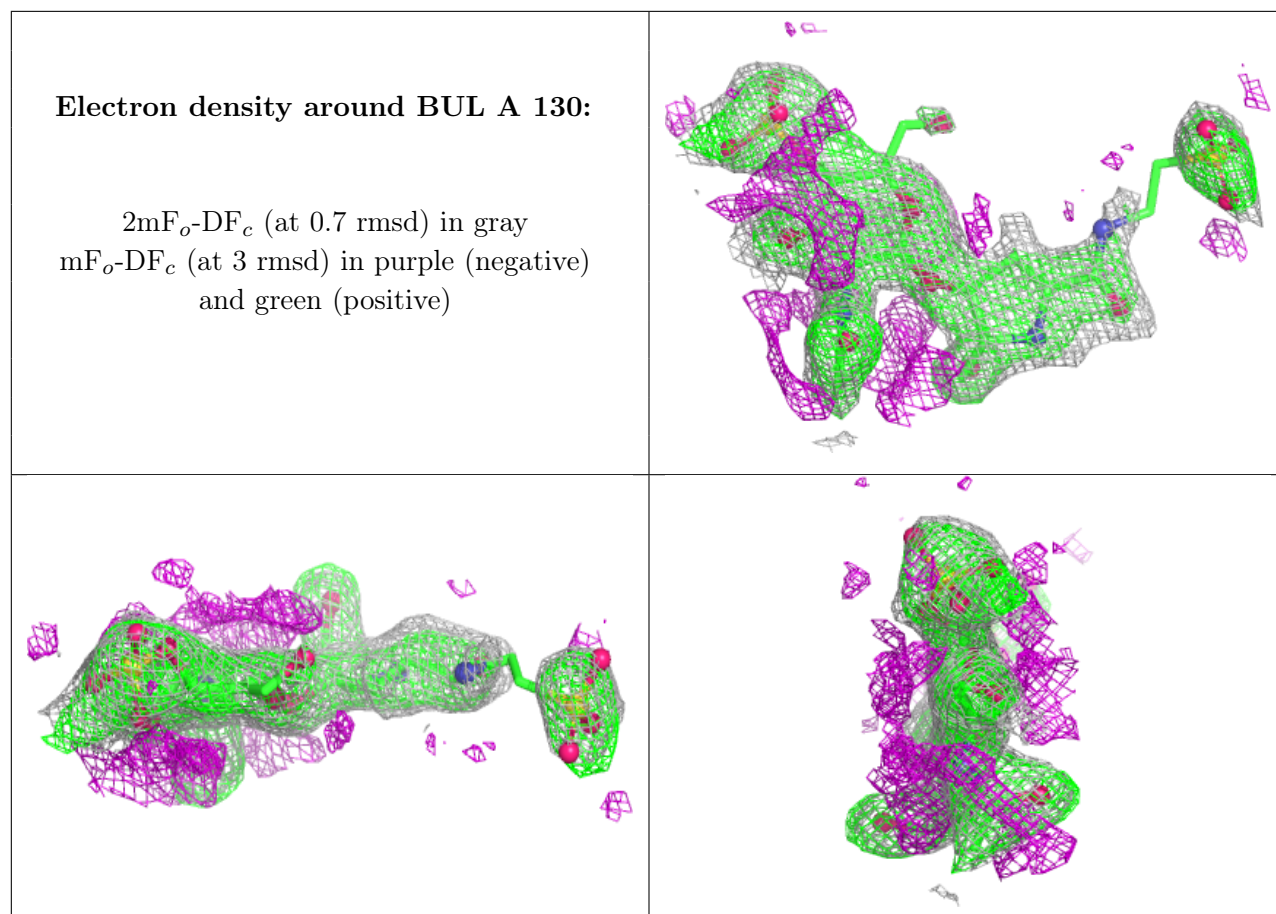
There are no oligosaccharides in this entry.

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
2	BUL	A	130	35/35	-	-	22,28,37,37	35

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 ⓘ

There are no such residues in this entry.