



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 5, 2026 – 06:16 AM EDT

PDB ID : 2R25 / pdb_00002r25
Title : Complex of YPD1 and SLN1-R1 with bound Mg²⁺ and BeF₃⁻
Authors : Copeland, D.M.; Zhao, X.; Soares, A.S.; West, A.H.
Deposited on : 2007-08-24
Resolution : 1.70 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
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

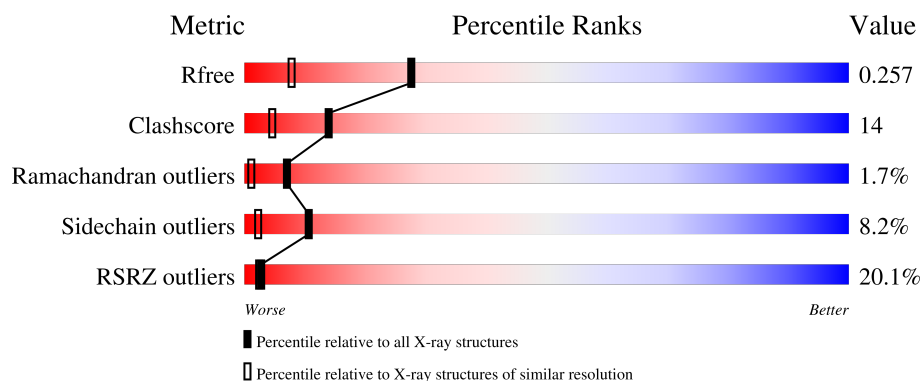
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.70 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	5551 (1.70-1.70)
Clashscore	190562	5924 (1.70-1.70)
Ramachandran outliers	187476	5846 (1.70-1.70)
Sidechain outliers	187428	5846 (1.70-1.70)
RSRZ outliers	180081	5554 (1.70-1.70)

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	167	17% 79% 15% • •
2	B	133	24% 75% 22% •

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 2723 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 Phosphorelay intermediate protein YPD1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	166	Total	C	N	O	S	0	6	0
			1383	871	232	275	5			

- Molecule 2 is a protein called Osmosensing histidine protein kinase SLN1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	133	Total	C	N	O	S	0	8	0
			1096	694	182	210	10			

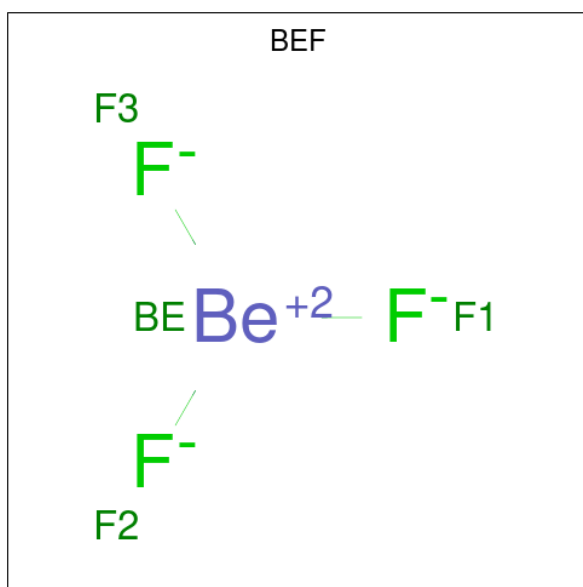
- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Mg	0	0
			1	1		

- Molecule 4 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Na	0	0
			1	1		

- Molecule 5 is BERYLLIUM TRIFLUORIDE ION (CCD ID: BEF) (formula: BeF₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	B	1	Total	Be	F	0	0
			4	1	3		

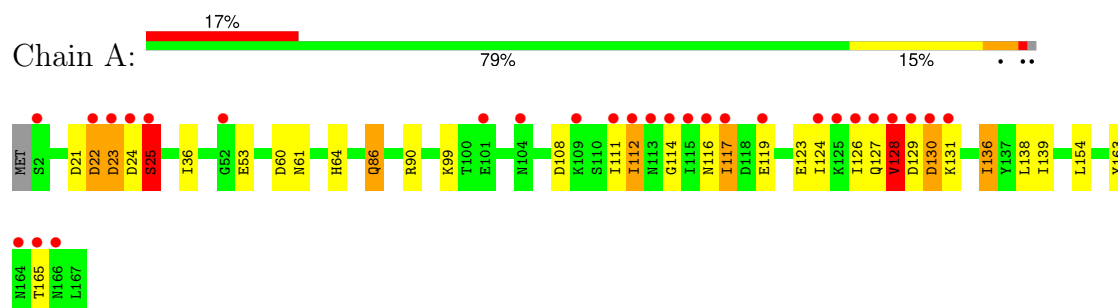
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	157	Total	O	0	0
			157	157		
6	B	81	Total	O	0	0
			81	81		

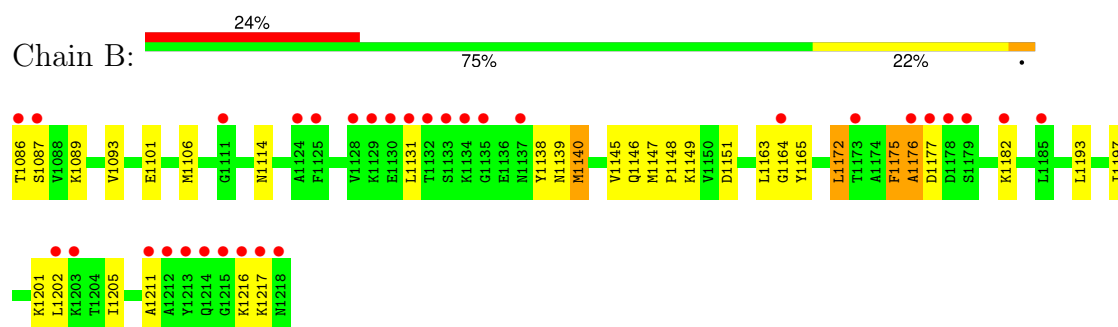
3 Residue-property plots [i](#)

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: Phosphorelay intermediate protein YPD1



- Molecule 2: Osmosensing histidine protein kinase SLN1



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	52.01Å 75.54Å 98.39Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	17.75 – 1.70 17.75 – 1.70	Depositor EDS
% Data completeness (in resolution range)	99.2 (17.75-1.70) 99.0 (17.75-1.70)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.61 (at 1.70Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.196 , 0.240 0.230 , 0.257	Depositor DCC
R_{free} test set	2168 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	30.7	Xtriage
Anisotropy	0.101	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 37.5	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	0.95	EDS
Total number of atoms	2723	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.19% 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: BEF, NA, MG

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	1/1406 (0.1%)	1.03	4/1894 (0.2%)
2	B	0.91	1/1111 (0.1%)	1.02	3/1490 (0.2%)
All	All	1.00	2/2517 (0.1%)	1.03	7/3384 (0.2%)

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
2	B	0	2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1138	TYR	C-O	7.99	1.33	1.23
1	A	36	ILE	C-O	5.42	1.30	1.24

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1138	TYR	N-CA-C	-7.56	97.26	109.96
2	B	1140	MET	CB-CG-SD	-6.59	92.92	112.70
2	B	1165	TYR	N-CA-C	6.52	119.68	109.96
1	A	128	VAL	N-CA-C	6.39	122.63	109.34
1	A	108	ASP	N-CA-C	-6.13	101.06	109.71
1	A	128	VAL	CA-C-N	5.58	131.74	121.70
1	A	128	VAL	C-N-CA	5.58	131.74	121.70

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	1164	GLY	Peptide
2	B	1175	PHE	Peptide

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	1383	0	1377	34	0
2	B	1096	0	1124	39	1
3	B	1	0	0	0	0
4	B	1	0	0	0	0
5	B	4	0	0	0	0
6	A	157	0	0	12	1
6	B	81	0	0	2	0
All	All	2723	0	2501	72	1

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 14.

All (72) 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:128:VAL:H	1:A:129:ASP:HB2	0.99	1.14
2:B:1172:LEU:CD2	2:B:1197[B]:ILE:HD11	1.81	1.10
2:B:1172:LEU:HD21	2:B:1197[B]:ILE:HD11	1.33	1.08
1:A:128:VAL:N	1:A:129:ASP:HB2	1.80	0.96
1:A:24:ASP:O	1:A:25:SER:HB3	1.68	0.94
2:B:1172:LEU:HD21	2:B:1197[B]:ILE:CD1	1.96	0.94
1:A:128:VAL:H	1:A:129:ASP:CB	1.86	0.88
1:A:22:ASP:HA	6:A:314:HOH:O	1.73	0.86
2:B:1175:PHE:HB3	2:B:1176:ALA:HB3	1.63	0.81
2:B:1175:PHE:HA	2:B:1176:ALA:HB2	1.63	0.80
1:A:124:ILE:HD11	6:A:270:HOH:O	1.82	0.79
2:B:1086[A]:THR:HG22	2:B:1087[A]:SER:H	1.47	0.79
1:A:86:GLN:HE22	1:A:90:ARG:HD2	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1172:LEU:HD23	2:B:1197[B]:ILE:HD11	1.69	0.75
2:B:1172:LEU:HD21	2:B:1197[B]:ILE:CG1	2.18	0.73
2:B:1086[B]:THR:HG23	2:B:1087[B]:SER:N	2.04	0.72
6:A:292:HOH:O	2:B:1176:ALA:HA	1.88	0.72
2:B:1086[A]:THR:O	2:B:1087[A]:SER:CB	2.41	0.69
1:A:23:ASP:HB3	6:A:296:HOH:O	1.94	0.68
1:A:117:ILE:HG22	6:A:282:HOH:O	1.93	0.67
2:B:1101[A]:GLU:OE1	6:B:238:HOH:O	2.13	0.67
1:A:112:ILE:CD1	1:A:154:LEU:HD21	2.25	0.66
1:A:99:LYS:HD3	1:A:117:ILE:CG1	2.28	0.62
2:B:1193:LEU:HD21	2:B:1205:ILE:HG13	1.80	0.62
1:A:116:ASN:HA	6:A:282:HOH:O	1.99	0.61
1:A:86:GLN:NE2	1:A:90:ARG:HD2	2.15	0.60
2:B:1175:PHE:CA	2:B:1176:ALA:CB	2.80	0.59
2:B:1175:PHE:CA	2:B:1176:ALA:HB2	2.31	0.59
1:A:21:ASP:O	1:A:22:ASP:CG	2.46	0.59
1:A:22:ASP:OD1	1:A:23:ASP:N	2.38	0.56
2:B:1086[B]:THR:HG23	2:B:1087[B]:SER:H	1.69	0.55
2:B:1175:PHE:CB	2:B:1176:ALA:HB3	2.37	0.54
6:A:292:HOH:O	2:B:1176:ALA:CB	2.55	0.54
1:A:112:ILE:HD11	1:A:154:LEU:HD21	1.89	0.54
1:A:21:ASP:O	1:A:22:ASP:OD1	2.26	0.53
2:B:1106[A]:MET:HE1	2:B:1197[A]:ILE:O	2.08	0.52
1:A:99:LYS:HD3	1:A:117:ILE:HG12	1.90	0.52
1:A:114:GLY:CA	6:A:294:HOH:O	2.57	0.52
2:B:1193:LEU:CD2	2:B:1201:LYS:HE2	2.40	0.52
2:B:1197[B]:ILE:HD13	2:B:1197[B]:ILE:N	2.24	0.51
2:B:1172:LEU:HD21	2:B:1197[B]:ILE:HG13	1.93	0.51
2:B:1175:PHE:CB	2:B:1176:ALA:CB	2.90	0.50
2:B:1175:PHE:HD1	2:B:1176:ALA:HB2	1.77	0.50
1:A:64:HIS:HB2	1:A:86:GLN:HG3	1.94	0.50
2:B:1175:PHE:HB3	2:B:1176:ALA:CB	2.38	0.49
1:A:21:ASP:OD2	1:A:25:SER:HA	2.12	0.49
1:A:86:GLN:HE22	1:A:90:ARG:CD	2.22	0.49
1:A:86:GLN:C	1:A:86:GLN:HE21	2.22	0.47
1:A:112:ILE:HG23	1:A:112:ILE:O	2.14	0.47
2:B:1145:VAL:O	2:B:1151:ASP:HB2	2.15	0.47
2:B:1086[A]:THR:HG22	2:B:1087[A]:SER:N	2.22	0.47
6:A:292:HOH:O	2:B:1176:ALA:HB2	2.14	0.46
2:B:1089:LYS:H	2:B:1139:ASN:ND2	2.13	0.45
1:A:163:TYR:HB3	1:A:165:THR:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:GLN:HB2	1:A:130:ASP:HB2	1.99	0.45
1:A:99:LYS:HD3	1:A:117:ILE:HG13	1.98	0.45
1:A:24:ASP:O	1:A:25:SER:CB	2.50	0.45
2:B:1086[B]:THR:CG2	2:B:1087[B]:SER:N	2.71	0.44
2:B:1172:LEU:CD2	2:B:1197[B]:ILE:CD1	2.66	0.44
2:B:1140:MET:HE2	2:B:1140:MET:HB3	1.73	0.44
1:A:114:GLY:N	6:A:294:HOH:O	2.46	0.44
1:A:136[A]:ILE:H	1:A:136[A]:ILE:HG13	1.62	0.43
2:B:1175:PHE:CD1	2:B:1176:ALA:HB2	2.53	0.43
2:B:1177:ASP:HB2	6:B:228:HOH:O	2.18	0.43
2:B:1093:VAL:HG12	2:B:1147:MET:SD	2.59	0.42
2:B:1139:ASN:HD22	2:B:1139:ASN:H	1.66	0.42
1:A:114:GLY:HA3	6:A:294:HOH:O	2.17	0.42
2:B:1148:PRO:O	2:B:1149:LYS:HB2	2.18	0.42
2:B:1089:LYS:HE2	2:B:1114:ASN:OD1	2.20	0.41
1:A:61:ASN:HA	2:B:1146:GLN:HE22	1.84	0.41
1:A:112:ILE:HD12	1:A:112:ILE:HA	1.56	0.41
1:A:53:GLU:CD	6:A:224:HOH:O	2.64	0.41

All (1) 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)
2:B:1101[B]:GLU:OE2	6:A:203:HOH:O[4_455]	2.07	0.13

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	170/167 (102%)	160 (94%)	8 (5%)	2 (1%)	10 2
2	B	138/133 (104%)	131 (95%)	4 (3%)	3 (2%)	5 1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	308/300 (103%)	291 (94%)	12 (4%)	5 (2%)	7 1

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	1176	ALA
2	B	1211	ALA
2	B	1217	LYS
1	A	25	SER
1	A	22	ASP

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	156/152 (103%)	139 (89%)	17 (11%)	6 1
2	B	124/118 (105%)	118 (95%)	6 (5%)	23 8
All	All	280/270 (104%)	257 (92%)	23 (8%)	10 2

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	23	ASP
1	A	25	SER
1	A	60	ASP
1	A	86	GLN
1	A	111	ILE
1	A	112	ILE
1	A	117	ILE
1	A	119	GLU
1	A	123	GLU
1	A	126	ILE
1	A	128	VAL
1	A	130	ASP
1	A	131	LYS

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Mol	Chain	Res	Type
1	A	136[A]	ILE
1	A	136[B]	ILE
1	A	138	LEU
1	A	139	ILE
2	B	1131	LEU
2	B	1163	LEU
2	B	1172	LEU
2	B	1182	LYS
2	B	1202	LEU
2	B	1216	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	34	GLN
1	A	40	GLN
1	A	86	GLN
1	A	87	ASN
1	A	113	ASN
2	B	1139	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 3 ligands modelled in this entry, 2 are monoatomic - leaving 1 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	$\# Z > 2$
5	BEF	B	2	2	0,3,3	-	-	-		

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 [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	166/167 (99%)	0.88	28 (16%) 4 3	14, 29, 55, 78	11 (6%)
2	B	133/133 (100%)	1.30	32 (24%) 2 2	13, 35, 60, 78	13 (9%)
All	All	299/300 (99%)	1.07	60 (20%) 3 2	13, 32, 59, 78	24 (8%)

All (60) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	1218	ASN	7.7
1	A	128	VAL	7.1
1	A	126	ILE	6.8
2	B	1217	LYS	6.0
1	A	115	ILE	5.7
2	B	1086[A]	THR	5.5
2	B	1214	GLN	5.4
1	A	125	LYS	5.2
1	A	166[A]	ASN	4.7
2	B	1215	GLY	4.5
1	A	22	ASP	4.4
2	B	1212	ALA	4.2
2	B	1216	LYS	4.1
2	B	1135	GLY	4.0
2	B	1131	LEU	4.0
1	A	24	ASP	4.0
1	A	114	GLY	3.9
1	A	124	ILE	3.6
2	B	1179	SER	3.5
1	A	129	ASP	3.5
1	A	130	ASP	3.4
1	A	112	ILE	3.3
1	A	117	ILE	3.3
1	A	23	ASP	3.2

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Mol	Chain	Res	Type	RSRZ
1	A	164	ASN	3.2
2	B	1176	ALA	3.2
1	A	113	ASN	3.1
1	A	25	SER	3.0
2	B	1137	ASN	2.9
2	B	1133	SER	2.9
1	A	165	THR	2.9
2	B	1211	ALA	2.8
2	B	1132	THR	2.8
2	B	1134	LYS	2.8
2	B	1213	TYR	2.8
1	A	116	ASN	2.7
2	B	1182	LYS	2.7
1	A	131	LYS	2.6
2	B	1164	GLY	2.6
2	B	1177	ASP	2.6
2	B	1178	ASP	2.6
1	A	127	GLN	2.5
2	B	1130	GLU	2.5
2	B	1125	PHE	2.4
2	B	1124	ALA	2.3
2	B	1128	VAL	2.3
2	B	1202	LEU	2.3
1	A	2	SER	2.3
2	B	1111	GLY	2.3
1	A	119	GLU	2.2
1	A	109	LYS	2.2
2	B	1173	THR	2.2
2	B	1185	LEU	2.2
2	B	1087[A]	SER	2.2
1	A	101	GLU	2.2
1	A	111	ILE	2.2
1	A	52	GLY	2.1
2	B	1203	LYS	2.1
1	A	104	ASN	2.0
2	B	1129	LYS	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
4	NA	B	5	1/1	0.83	0.22	39,39,39,39	1
5	BEF	B	2	4/4	0.96	0.08	25,25,26,28	0
3	MG	B	1	1/1	0.99	0.04	25,25,25,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.