



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 04:47 PM UTC

PDB ID : 8PPS / pdb_00008pps
Title : Dimeric RbdA EAL, in apo state
Authors : Cordery, C.R.; Maly, M.; Walsh, M.A.; Tews, I.
Deposited on : 2023-07-08
Resolution : 2.30 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)
Xtrriage (Phenix) : 2.0
EDS : 3.0
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

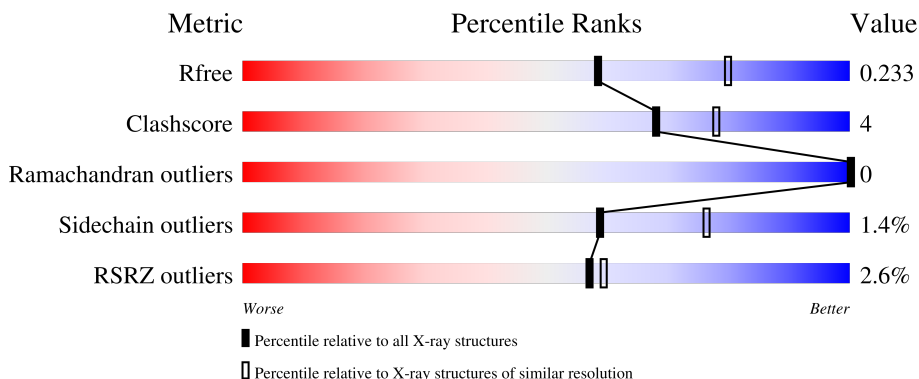
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


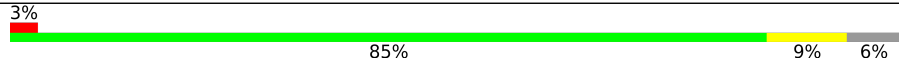
The reported resolution of this entry is 2.30 Å.

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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	269	 2% 83% 9% 7%
1	B	269	 3% 85% 9% 6%

2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 4235 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 EAL domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	250	1994	1276	340	367	11	0	2	0
1	B	252	2003	1281	342	369	11	0	2	0

There are 40 discrepancies between the modelled and reference sequences:

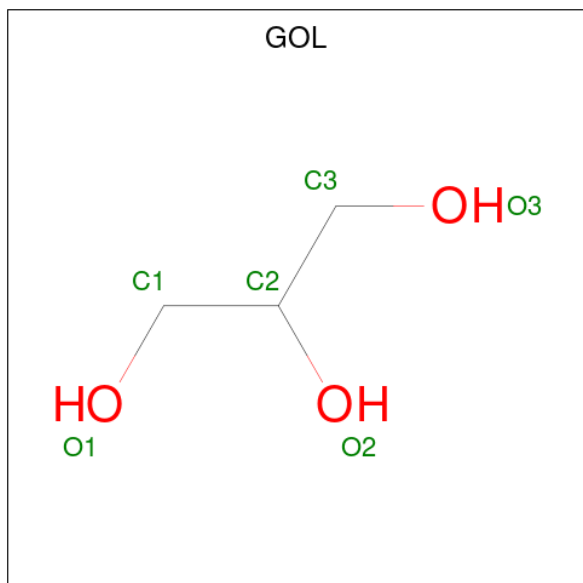
Chain	Residue	Modelled	Actual	Comment	Reference
A	529	MET	-	initiating methionine	UNP Q9I580
A	530	GLY	-	expression tag	UNP Q9I580
A	531	SER	-	expression tag	UNP Q9I580
A	532	SER	-	expression tag	UNP Q9I580
A	533	HIS	-	expression tag	UNP Q9I580
A	534	HIS	-	expression tag	UNP Q9I580
A	535	HIS	-	expression tag	UNP Q9I580
A	536	HIS	-	expression tag	UNP Q9I580
A	537	HIS	-	expression tag	UNP Q9I580
A	538	HIS	-	expression tag	UNP Q9I580
A	539	SER	-	expression tag	UNP Q9I580
A	540	SER	-	expression tag	UNP Q9I580
A	541	GLY	-	expression tag	UNP Q9I580
A	542	LEU	-	expression tag	UNP Q9I580
A	543	VAL	-	expression tag	UNP Q9I580
A	544	PRO	-	expression tag	UNP Q9I580
A	545	ARG	-	expression tag	UNP Q9I580
A	546	GLY	-	expression tag	UNP Q9I580
A	547	SER	-	expression tag	UNP Q9I580
A	548	HIS	-	expression tag	UNP Q9I580
B	529	MET	-	initiating methionine	UNP Q9I580
B	530	GLY	-	expression tag	UNP Q9I580
B	531	SER	-	expression tag	UNP Q9I580
B	532	SER	-	expression tag	UNP Q9I580
B	533	HIS	-	expression tag	UNP Q9I580

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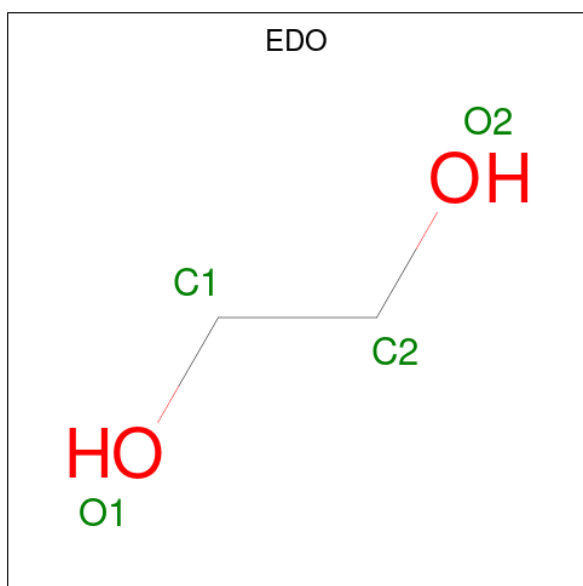
Chain	Residue	Modelled	Actual	Comment	Reference
B	534	HIS	-	expression tag	UNP Q9I580
B	535	HIS	-	expression tag	UNP Q9I580
B	536	HIS	-	expression tag	UNP Q9I580
B	537	HIS	-	expression tag	UNP Q9I580
B	538	HIS	-	expression tag	UNP Q9I580
B	539	SER	-	expression tag	UNP Q9I580
B	540	SER	-	expression tag	UNP Q9I580
B	541	GLY	-	expression tag	UNP Q9I580
B	542	LEU	-	expression tag	UNP Q9I580
B	543	VAL	-	expression tag	UNP Q9I580
B	544	PRO	-	expression tag	UNP Q9I580
B	545	ARG	-	expression tag	UNP Q9I580
B	546	GLY	-	expression tag	UNP Q9I580
B	547	SER	-	expression tag	UNP Q9I580
B	548	HIS	-	expression tag	UNP Q9I580

- Molecule 2 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



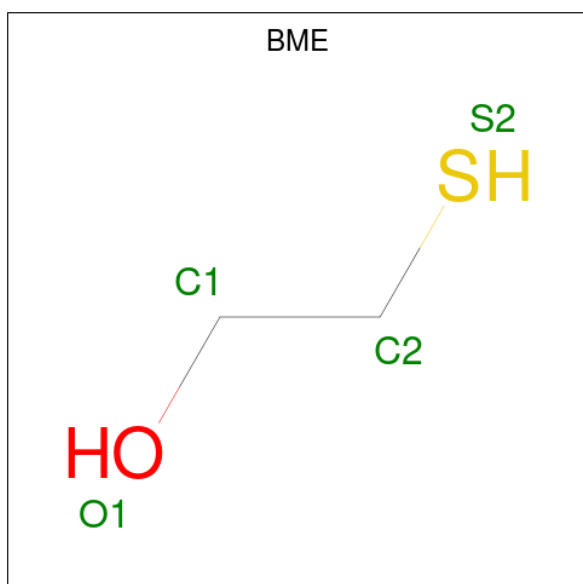
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	A	1	Total	C	O	0	0
			6	3	3		
2	B	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$).



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

- Molecule 4 is BETA-MERCAPTOETHANOL (CCD ID: BME) (formula: C_2H_6OS).



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

- Molecule 5 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Mg 1 1	0	0
5	B	1	Total Mg 1 1	0	0


- Molecule 6 is water.

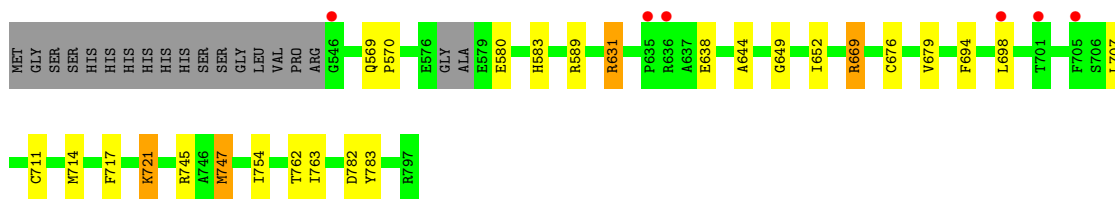
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	104	Total O 104 104	0	0
6	B	84	Total O 84 84	0	0

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.

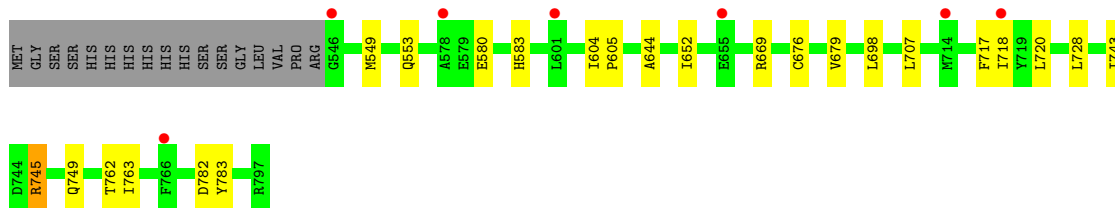
- Molecule 1: EAL domain-containing protein

Chain A: 



- Molecule 1: EAL domain-containing protein

Chain B: 



4 Data and refinement statistics i

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	64.40Å 65.72Å 172.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.04 – 2.30 46.04 – 2.30	Depositor EDS
% Data completeness (in resolution range)	93.5 (46.04-2.30) 93.5 (46.04-2.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.89 (at 2.29Å)	Xtrriage
Refinement program	REFMAC 5.8.0415	Depositor
R, R_{free}	0.184 , 0.232 0.187 , 0.233	Depositor DCC
R_{free} test set	1495 reflections (4.49%)	wwPDB-VP
Wilson B-factor (Å ²)	52.7	Xtrriage
Anisotropy	0.104	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 31.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.053 for k,h,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4235	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.35% 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: GOL, BME, EDO, 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	0.67	0/2035	1.05	2/2759 (0.1%)
1	B	0.68	0/2045	1.08	1/2773 (0.0%)
All	All	0.68	0/4080	1.07	3/5532 (0.1%)

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	2
1	B	0	2
All	All	0	4

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	583	HIS	CA-CB-CG	6.22	120.02	113.80
1	A	583	HIS	CA-CB-CG	5.56	119.36	113.80
1	A	669	ARG	CB-CG-CD	5.17	123.18	111.30

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	669	ARG	Sidechain
1	A	745	ARG	Sidechain
1	B	669	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	B	745[A]	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	1994	0	1990	19	0
1	B	2003	0	1997	12	0
2	A	18	0	24	0	0
2	B	6	0	8	0	0
3	A	8	0	12	0	0
3	B	8	0	11	0	0
4	A	4	0	6	2	0
4	B	4	0	5	1	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
6	A	104	0	0	0	0
6	B	84	0	0	0	0
All	All	4235	0	4053	29	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 4.

All (29) 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:711:CYS:SG	4:A:806:BME:S2	2.45	0.96
1:A:589[B]:ARG:HG3	1:A:589[B]:ARG:HH11	1.51	0.73
1:A:631:ARG:NH2	1:A:638[B]:GLU:O	2.21	0.71
1:B:652:ILE:HD11	1:B:679:VAL:HG11	1.73	0.70
1:A:631:ARG:NH2	1:A:638[A]:GLU:O	2.23	0.70
1:A:711:CYS:SG	1:A:747:MET:HE3	2.38	0.64
1:A:589[B]:ARG:HG3	1:A:589[B]:ARG:NH1	2.19	0.57
1:A:589[B]:ARG:NH1	1:A:589[B]:ARG:CG	2.72	0.53
1:B:549:MET:HE2	1:B:553:GLN:HG3	1.90	0.53
1:B:720:LEU:HD11	1:B:728:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:644:ALA:HA	1:A:676:CYS:O	2.10	0.50
1:A:649:GLY:HA2	1:A:652:ILE:HG12	1.93	0.50
1:B:644:ALA:HA	1:B:676:CYS:O	2.12	0.49
1:B:745[B]:ARG:O	1:B:749:GLN:HG3	2.14	0.47
1:B:763:ILE:HG12	1:B:783:TYR:HB2	1.96	0.47
1:B:604:ILE:HB	1:B:605:PRO:HD3	1.96	0.46
1:A:721:LYS:HG2	1:B:743:ILE:HG13	1.97	0.46
1:A:714:MET:HE1	1:B:718:ILE:HD13	1.99	0.45
1:A:711:CYS:CB	4:A:806:BME:S2	3.05	0.45
1:A:694:PHE:CE2	1:A:698:LEU:HD22	2.52	0.44
1:A:714:MET:HG2	1:A:747:MET:HE2	1.98	0.44
1:B:679:VAL:O	1:B:707:LEU:HA	2.19	0.43
1:A:762:THR:O	1:A:782:ASP:HB2	2.19	0.43
1:A:763:ILE:HG12	1:A:783:TYR:HB2	2.00	0.42
1:A:679:VAL:O	1:A:707:LEU:HA	2.19	0.42
1:B:717:PHE:CD2	4:B:802:BME:H22	2.54	0.42
1:B:762:THR:O	1:B:782:ASP:HB2	2.20	0.42
1:A:569:GLN:HA	1:A:570:PRO:HD3	1.96	0.40
1:A:717:PHE:CD2	1:A:754:ILE:HD11	2.56	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	248/269 (92%)	243 (98%)	5 (2%)	0	100	100
1	B	252/269 (94%)	246 (98%)	6 (2%)	0	100	100
All	All	500/538 (93%)	489 (98%)	11 (2%)	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	214/227 (94%)	210 (98%)	4 (2%)	50	69
1	B	214/227 (94%)	212 (99%)	2 (1%)	70	84
All	All	428/454 (94%)	422 (99%)	6 (1%)	59	76

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	580	GLU
1	A	631	ARG
1	A	721	LYS
1	A	747	MET
1	B	580	GLU
1	B	698	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	553	GLN
1	A	556	HIS
1	A	633	GLN
1	A	753	HIS
1	B	553	GLN
1	B	556	HIS
1	B	633	GLN
1	B	722	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](#)

Of 12 ligands modelled in this entry, 2 are 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	$\# Z > 2$
4	BME	B	802	-	3,3,3	0.28	0	2,2,2	0.47	0
3	EDO	B	803	-	3,3,3	0.63	0	2,2,2	0.11	0
2	GOL	A	803	-	5,5,5	0.09	0	5,5,5	0.31	0
4	BME	A	806	-	3,3,3	0.13	0	2,2,2	0.39	0
3	EDO	A	805	-	3,3,3	0.46	0	2,2,2	0.13	0
2	GOL	B	801	-	5,5,5	0.23	0	5,5,5	0.61	0
2	GOL	A	802	-	5,5,5	0.26	0	5,5,5	0.63	0
3	EDO	A	804	-	3,3,3	0.16	0	2,2,2	0.18	0
3	EDO	B	804	-	3,3,3	0.29	0	2,2,2	0.40	0
2	GOL	A	801	-	5,5,5	0.27	0	5,5,5	0.62	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
4	BME	B	802	-	-	0/1/1/1	-
3	EDO	B	803	-	-	0/1/1/1	-
2	GOL	A	803	-	-	4/4/4/4	-
4	BME	A	806	-	-	0/1/1/1	-
3	EDO	A	805	-	-	1/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	GOL	B	801	-	-	1/4/4/4	-
2	GOL	A	802	-	-	4/4/4/4	-
3	EDO	A	804	-	-	1/1/1/1	-
3	EDO	B	804	-	-	0/1/1/1	-
2	GOL	A	801	-	-	4/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	GOL	O1-C1-C2-O2
2	A	801	GOL	O1-C1-C2-C3
2	A	801	GOL	C1-C2-C3-O3
2	A	801	GOL	O2-C2-C3-O3
2	A	802	GOL	O1-C1-C2-C3
2	A	802	GOL	C1-C2-C3-O3
2	A	803	GOL	O1-C1-C2-C3
2	A	802	GOL	O1-C1-C2-O2
2	A	803	GOL	O2-C2-C3-O3
2	A	803	GOL	C1-C2-C3-O3
2	B	801	GOL	O1-C1-C2-C3
2	A	802	GOL	O2-C2-C3-O3
2	A	803	GOL	O1-C1-C2-O2
3	A	804	EDO	O1-C1-C2-O2
3	A	805	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	802	BME	1	0
4	A	806	BME	2	0

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 [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	250/269 (92%)	-0.08	6 (2%) 59 62	24, 56, 84, 131	2 (0%)
1	B	252/269 (93%)	-0.04	7 (2%) 55 57	31, 60, 88, 158	2 (0%)
All	All	502/538 (93%)	-0.06	13 (2%) 57 59	24, 58, 86, 158	4 (0%)

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	766	PHE	3.7
1	A	705	PHE	3.6
1	A	546	GLY	3.6
1	B	655[A]	GLU	3.6
1	B	578	ALA	2.9
1	A	701	THR	2.6
1	B	714	MET	2.5
1	B	546	GLY	2.5
1	B	718	ILE	2.5
1	A	635	PRO	2.3
1	B	601	LEU	2.2
1	A	698	LEU	2.1
1	A	636	ARG	2.1

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

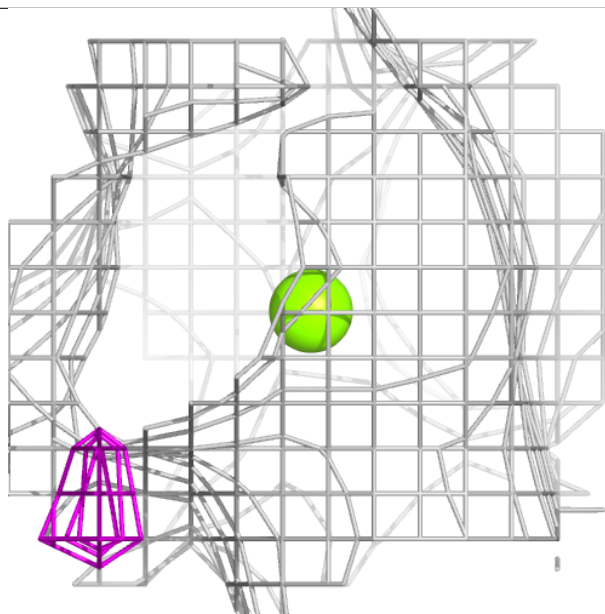
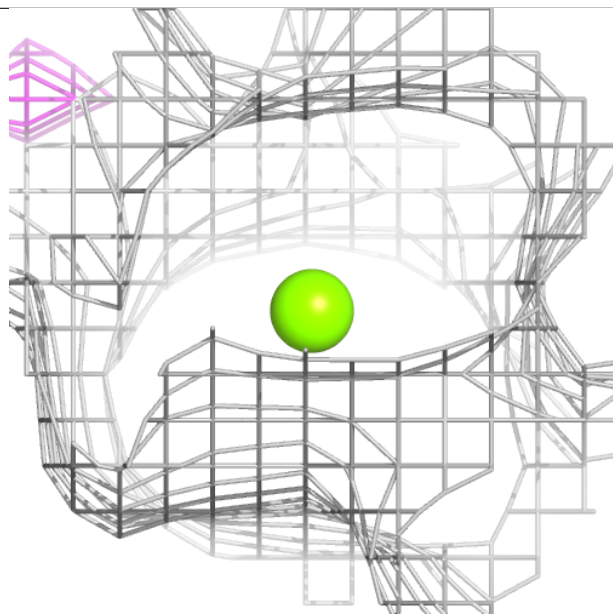
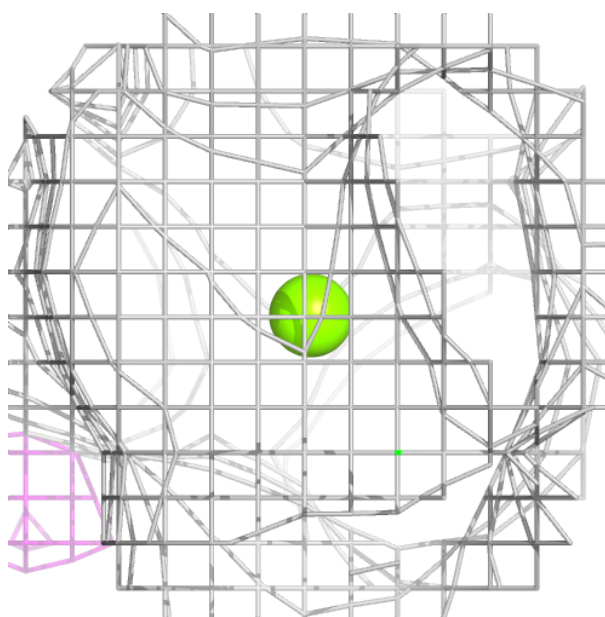
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

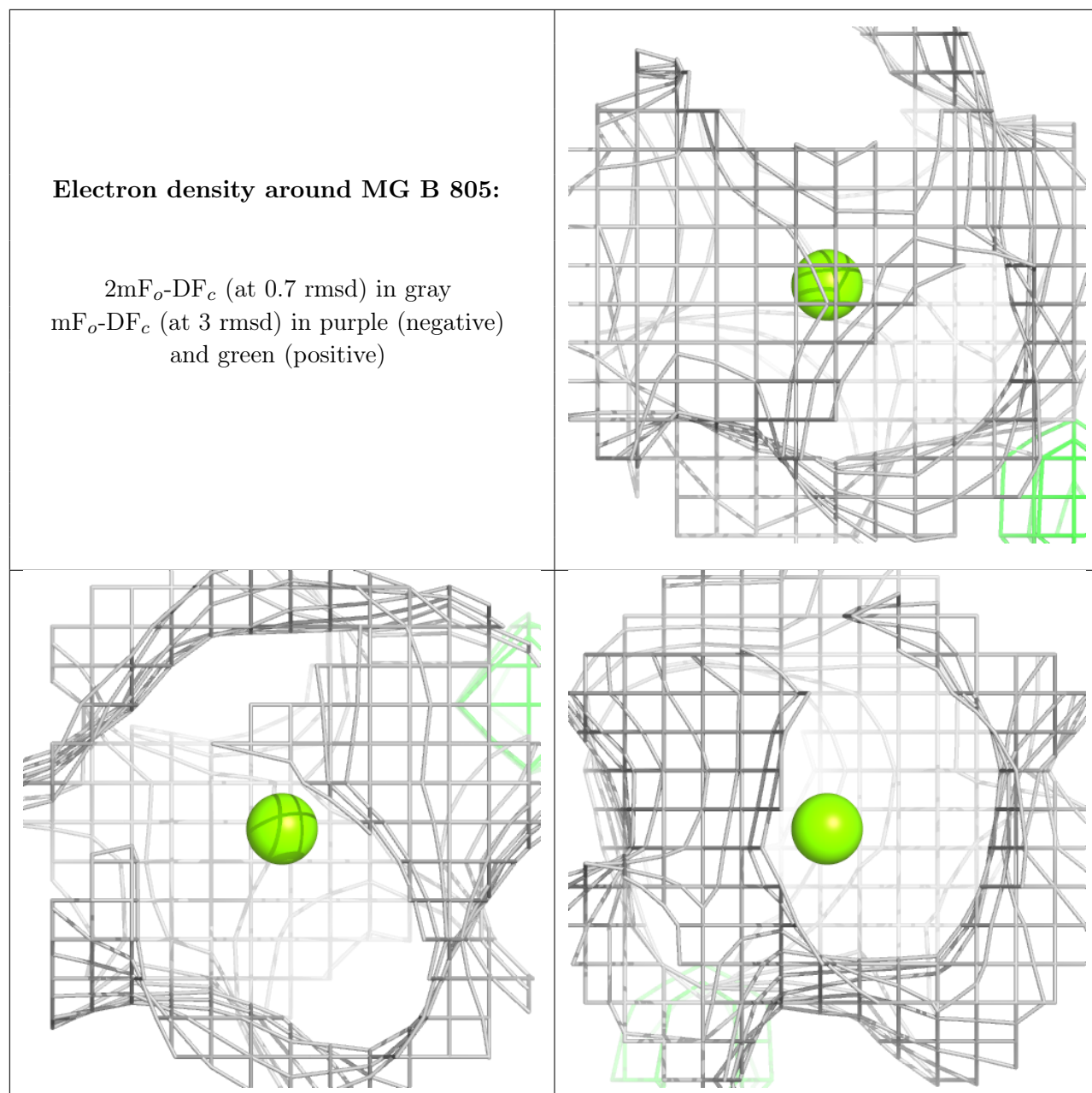
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	GOL	A	802	6/6	0.87	0.12	54,69,83,83	0
4	BME	A	806	4/4	0.88	0.14	86,87,92,94	0
3	EDO	B	804	4/4	0.89	0.17	62,73,78,81	0
2	GOL	B	801	6/6	0.89	0.11	60,64,66,72	0
3	EDO	A	804	4/4	0.91	0.24	76,82,82,84	0
2	GOL	A	803	6/6	0.92	0.10	71,83,85,91	0
2	GOL	A	801	6/6	0.94	0.09	52,59,60,65	0
4	BME	B	802	4/4	0.94	0.08	59,69,75,79	0
3	EDO	B	803	4/4	0.97	0.09	50,53,57,59	0
3	EDO	A	805	4/4	0.99	0.06	46,50,56,56	0
5	MG	A	807	1/1	0.99	0.02	46,46,46,46	0
5	MG	B	805	1/1	1.00	0.03	46,46,46,46	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 MG A 807:

$2mF_o-DF_c$ (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.