



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 11:45 AM UTC

PDB ID : 8ONF / pdb_00008onf
Title : Crystal structure of Bdellovibrio bacteriovorus Bd2439 fibre C-terminal domains with ethylene glycol
Authors : Caulton, S.G.; Lovering, A.L.
Deposited on : 2023-04-02
Resolution : 1.53 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

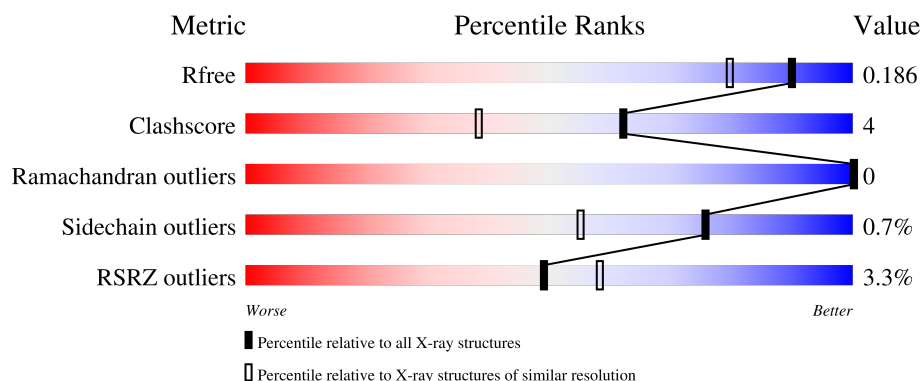
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.53 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	1003 (1.54-1.54)
Clashscore	190562	1025 (1.54-1.54)
Ramachandran outliers	187476	1007 (1.54-1.54)
Sidechain outliers	187428	1007 (1.54-1.54)
RSRZ outliers	180081	1002 (1.54-1.54)

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	286	3% 82% 8% 10%
1	B	286	4% 82% 7% 11%
1	C	286	2% 81% 8% 10%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6788 atoms, of which 42 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 Cell wall surface anchor family protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	258	Total	C	N	O	S	0	5	0
			1954	1198	353	390	13			
1	B	255	Total	C	N	O	S	0	1	0
			1907	1171	345	380	11			
1	C	256	Total	C	N	O	S	0	3	0
			1920	1179	345	384	12			

There are 45 discrepancies between the modelled and reference sequences:

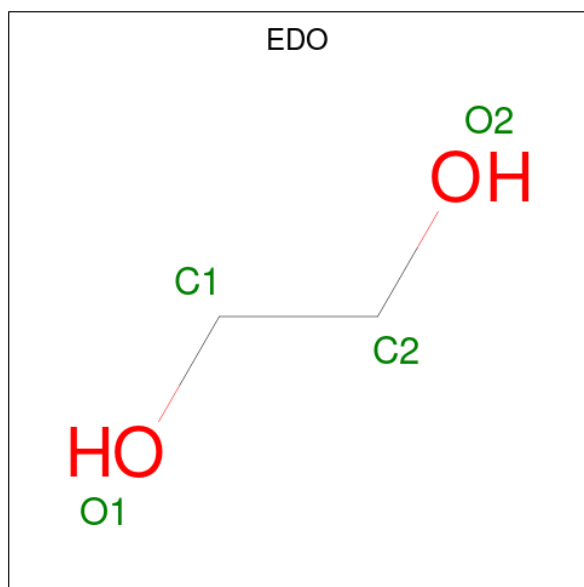
Chain	Residue	Modelled	Actual	Comment	Reference
A	822	MET	-	initiating methionine	UNP Q6MKF5
A	823	ASP	-	expression tag	UNP Q6MKF5
A	824	ILE	-	expression tag	UNP Q6MKF5
A	825	GLY	-	expression tag	UNP Q6MKF5
A	826	ILE	-	expression tag	UNP Q6MKF5
A	827	ASN	-	expression tag	UNP Q6MKF5
A	828	SER	-	expression tag	UNP Q6MKF5
A	829	ASP	-	expression tag	UNP Q6MKF5
A	830	PRO	-	expression tag	UNP Q6MKF5
A	831	HIS	-	expression tag	UNP Q6MKF5
A	832	HIS	-	expression tag	UNP Q6MKF5
A	833	HIS	-	expression tag	UNP Q6MKF5
A	834	HIS	-	expression tag	UNP Q6MKF5
A	835	HIS	-	expression tag	UNP Q6MKF5
A	836	HIS	-	expression tag	UNP Q6MKF5
B	822	MET	-	initiating methionine	UNP Q6MKF5
B	823	ASP	-	expression tag	UNP Q6MKF5
B	824	ILE	-	expression tag	UNP Q6MKF5
B	825	GLY	-	expression tag	UNP Q6MKF5
B	826	ILE	-	expression tag	UNP Q6MKF5
B	827	ASN	-	expression tag	UNP Q6MKF5
B	828	SER	-	expression tag	UNP Q6MKF5
B	829	ASP	-	expression tag	UNP Q6MKF5

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Chain	Residue	Modelled	Actual	Comment	Reference
B	830	PRO	-	expression tag	UNP Q6MKF5
B	831	HIS	-	expression tag	UNP Q6MKF5
B	832	HIS	-	expression tag	UNP Q6MKF5
B	833	HIS	-	expression tag	UNP Q6MKF5
B	834	HIS	-	expression tag	UNP Q6MKF5
B	835	HIS	-	expression tag	UNP Q6MKF5
B	836	HIS	-	expression tag	UNP Q6MKF5
C	822	MET	-	initiating methionine	UNP Q6MKF5
C	823	ASP	-	expression tag	UNP Q6MKF5
C	824	ILE	-	expression tag	UNP Q6MKF5
C	825	GLY	-	expression tag	UNP Q6MKF5
C	826	ILE	-	expression tag	UNP Q6MKF5
C	827	ASN	-	expression tag	UNP Q6MKF5
C	828	SER	-	expression tag	UNP Q6MKF5
C	829	ASP	-	expression tag	UNP Q6MKF5
C	830	PRO	-	expression tag	UNP Q6MKF5
C	831	HIS	-	expression tag	UNP Q6MKF5
C	832	HIS	-	expression tag	UNP Q6MKF5
C	833	HIS	-	expression tag	UNP Q6MKF5
C	834	HIS	-	expression tag	UNP Q6MKF5
C	835	HIS	-	expression tag	UNP Q6MKF5
C	836	HIS	-	expression tag	UNP Q6MKF5

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: $C_2H_6O_2$) (labeled as "Ligand of Interest" by depositor).

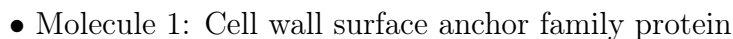


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C H O 10 2 6 2	0	0
2	A	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0
2	C	1	Total C H O 10 2 6 2	10	0
2	C	1	Total C H O 10 2 6 2	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	327	Total O 327 327	0	0
3	B	301	Total O 301 301	0	0
3	C	309	Total O 309 309	0	0

- Molecule 1: Cell wall surface anchor family protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	84.37Å 161.28Å 52.07Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.34 – 1.53 45.34 – 1.53	Depositor EDS
% Data completeness (in resolution range)	96.5 (45.34-1.53) 96.8 (45.34-1.53)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.41 (at 1.52Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.164 , 0.185 (Not available) , 0.186	Depositor DCC
R_{free} test set	5231 reflections (4.83%)	wwPDB-VP
Wilson B-factor (Å ²)	17.5	Xtriage
Anisotropy	0.413	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 43.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6788	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.55% 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

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	0.36	0/1985	0.63	0/2695
1	B	0.34	0/1937	0.59	0/2628
1	C	0.35	0/1951	0.61	0/2650
All	All	0.35	0/5873	0.61	0/7973

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	1954	0	1891	23	0
1	B	1907	0	1849	21	0
1	C	1920	0	1858	24	0
2	A	8	12	12	0	0
2	B	12	18	18	0	0
2	C	8	12	12	0	0
3	A	327	0	0	2	0
3	B	301	0	0	2	0
3	C	309	0	0	1	0
All	All	6746	42	5640	47	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 (47) 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:854:LEU:HG	1:C:856:ILE:HD11	1.54	0.86
1:A:856:ILE:HG22	1:A:865:SER:HB3	1.62	0.81
1:B:854:LEU:CD1	1:C:854:LEU:HD22	2.11	0.80
1:B:854:LEU:HG	1:C:856:ILE:CD1	2.19	0.72
1:A:864:THR:HG21	1:B:887:ARG:HD2	1.72	0.70
1:A:856:ILE:CG2	1:A:865:SER:HB3	2.21	0.70
1:A:887:ARG:HD2	1:C:864:THR:HG21	1.74	0.69
1:A:1047[B]:ASN:ND2	3:A:1301:HOH:O	2.28	0.67
1:B:854:LEU:HD11	1:C:854:LEU:HD22	1.81	0.62
1:B:854:LEU:HD13	1:C:854:LEU:HD22	1.83	0.59
1:A:1068[A]:MET:HE1	1:C:1104:LYS:HD3	1.86	0.58
1:B:864:THR:HG21	1:C:887:ARG:HD2	1.88	0.54
1:C:892:LEU:HD22	1:C:906:GLN:HE21	1.72	0.53
1:A:935:ARG:HD3	3:A:1307:HOH:O	2.08	0.53
1:B:854:LEU:N	1:B:854:LEU:HD23	2.24	0.52
1:A:1107:ASP:HB2	1:C:967:SER:O	2.12	0.50
1:A:856:ILE:HD11	1:C:854:LEU:HD12	1.93	0.50
1:A:1031:TYR:CZ	1:A:1082:PRO:HG3	2.47	0.50
1:A:967:SER:O	1:B:1107:ASP:HB2	2.12	0.49
1:C:935:ARG:HD3	3:C:1301:HOH:O	2.11	0.49
1:A:1073:ALA:O	1:A:1074:ASN:HB2	2.13	0.49
1:A:906:GLN:HG2	1:A:926:HIS:HB2	1.94	0.49
1:A:857:ARG:HD2	1:A:859:TYR:CE1	2.48	0.48
1:B:1031:TYR:CZ	1:B:1082:PRO:HG3	2.48	0.48
1:B:888:LEU:HG	1:C:904:SER:HB3	1.96	0.48
1:C:1031:TYR:CZ	1:C:1082:PRO:HG3	2.50	0.47
1:A:936:ILE:HD11	1:B:934:MET:HE2	1.98	0.46
1:C:906:GLN:HG2	1:C:926:HIS:HB2	1.99	0.45
1:B:967:SER:O	1:C:1107:ASP:HB2	2.17	0.45
1:C:1068[B]:MET:HE1	1:C:1106:VAL:HG21	1.99	0.45
1:A:921:THR:HG21	1:B:904:SER:HB3	1.99	0.45
1:A:932:GLU:OE2	1:A:935:ARG:HB2	2.16	0.45
1:B:971:TRP:CG	1:C:1068[A]:MET:HE2	2.51	0.44
1:B:935:ARG:HD3	3:B:1301:HOH:O	2.17	0.44
1:B:884:THR:HG23	1:B:912:GLU:C	2.42	0.44
1:A:904:SER:HB3	1:C:921:THR:HG21	2.00	0.44
1:B:851:ARG:HA	1:C:857:ARG:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:988:TRP:CZ2	1:C:1101[A]:MET:HG3	2.55	0.42
1:B:914:ASN:HB3	3:B:1318:HOH:O	2.19	0.42
1:A:857:ARG:HD2	1:A:859:TYR:CZ	2.54	0.42
1:A:857:ARG:HD2	1:A:859:TYR:OH	2.19	0.42
1:A:856:ILE:HG23	1:C:852:ASP:O	2.20	0.41
1:A:934[A]:MET:HE3	1:A:934[A]:MET:HB2	1.86	0.41
1:B:1050:LEU:C	1:B:1050:LEU:HD23	2.46	0.41
1:A:934[B]:MET:HE1	1:C:934:MET:HE1	2.03	0.41
1:C:1101[A]:MET:HE2	1:C:1101[A]:MET:HB3	1.95	0.40
1:B:1017:ILE:HA	1:B:1102:GLN:O	2.22	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	261/286 (91%)	256 (98%)	5 (2%)	0	100	100
1	B	252/286 (88%)	247 (98%)	5 (2%)	0	100	100
1	C	257/286 (90%)	251 (98%)	6 (2%)	0	100	100
All	All	770/858 (90%)	754 (98%)	16 (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	208/226 (92%)	206 (99%)	2 (1%)	68	42
1	B	203/226 (90%)	202 (100%)	1 (0%)	81	64
1	C	204/226 (90%)	203 (100%)	1 (0%)	81	64
All	All	615/678 (91%)	611 (99%)	4 (1%)	76	55

All (4) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	969	ARG
1	A	1063	THR
1	B	1063	THR
1	C	1063	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (11) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	855	ASN
1	A	1066	ASN
1	B	1066	ASN
1	C	855	ASN
1	C	883	GLN
1	C	906	GLN
1	C	924	GLN
1	C	938	ASN
1	C	956	GLN
1	C	1066	ASN
1	C	1102	GLN

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

7 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
2	EDO	B	1202	-	3,3,3	0.42	0	2,2,2	0.49	0
2	EDO	B	1203	-	3,3,3	0.40	0	2,2,2	0.56	0
2	EDO	A	1202	-	3,3,3	0.11	0	2,2,2	0.08	0
2	EDO	B	1201	-	3,3,3	0.15	0	2,2,2	0.04	0
2	EDO	C	1201	-	3,3,3	0.43	0	2,2,2	0.37	0
2	EDO	A	1201	-	3,3,3	0.18	0	2,2,2	0.16	0
2	EDO	C	1202	-	3,3,3	0.11	0	2,2,2	0.13	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
2	EDO	B	1202	-	-	0/1/1/1	-
2	EDO	B	1203	-	-	0/1/1/1	-
2	EDO	A	1202	-	-	0/1/1/1	-
2	EDO	B	1201	-	-	0/1/1/1	-
2	EDO	C	1201	-	-	1/1/1/1	-
2	EDO	A	1201	-	-	0/1/1/1	-
2	EDO	C	1202	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

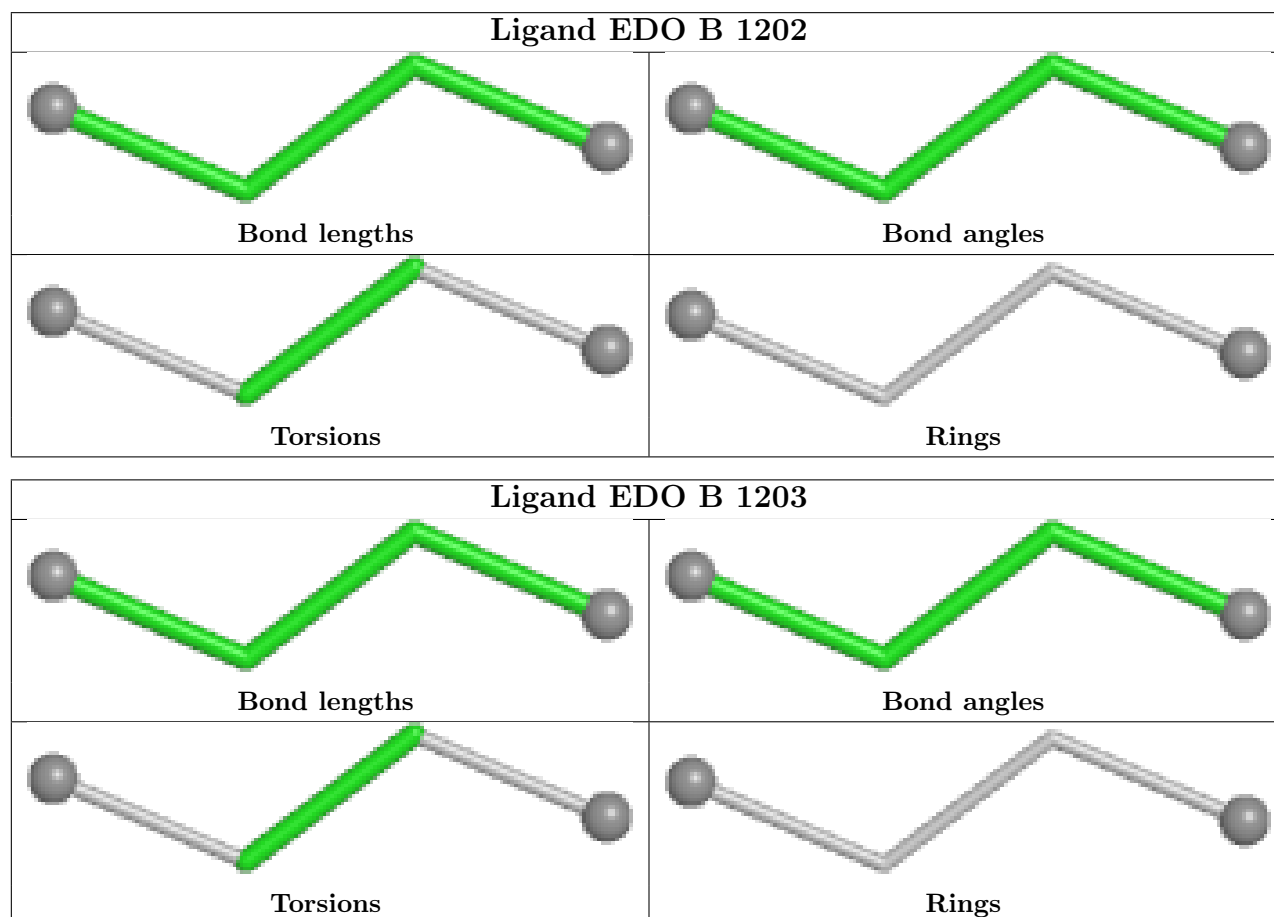
All (1) torsion outliers are listed below:

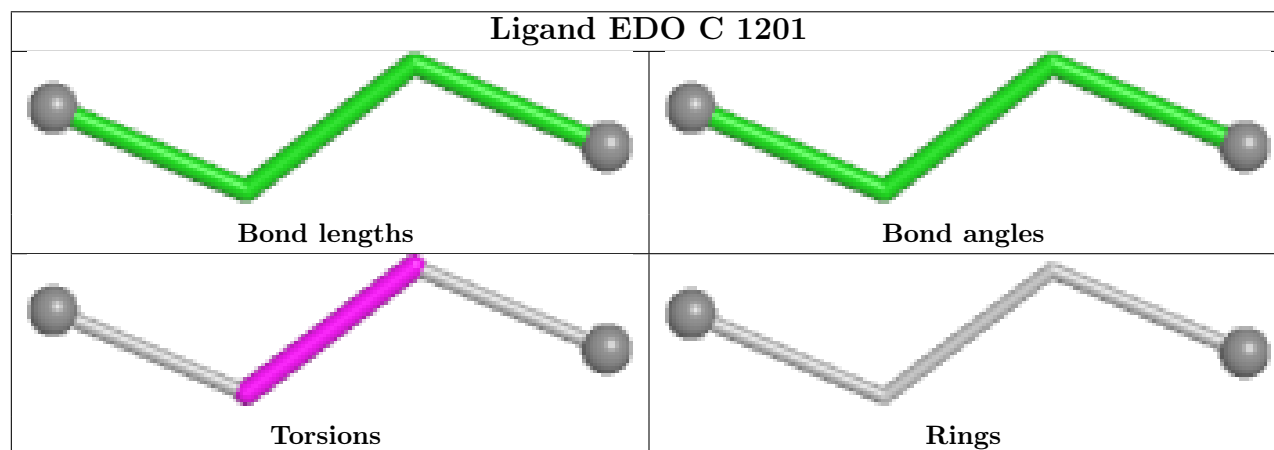
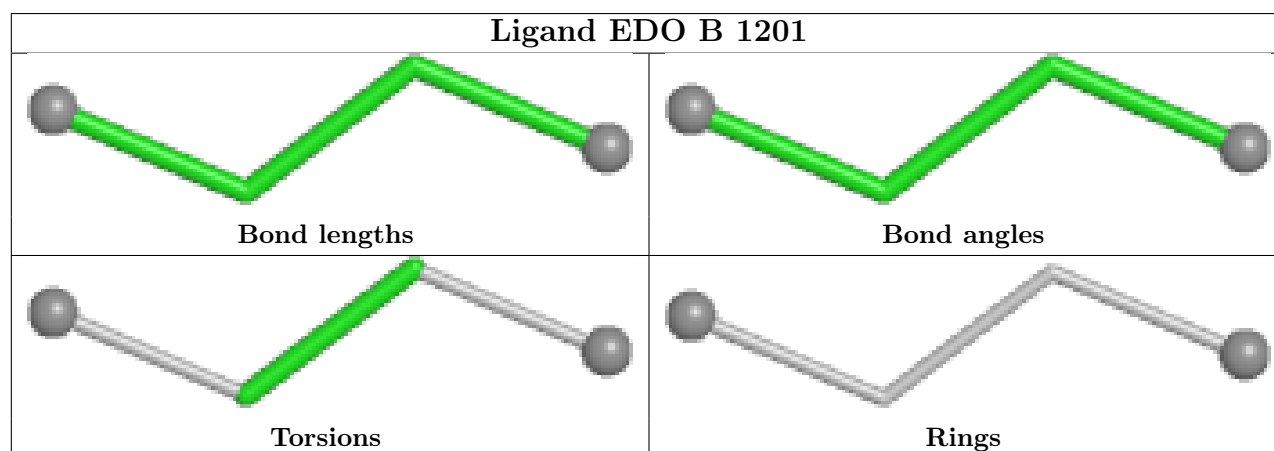
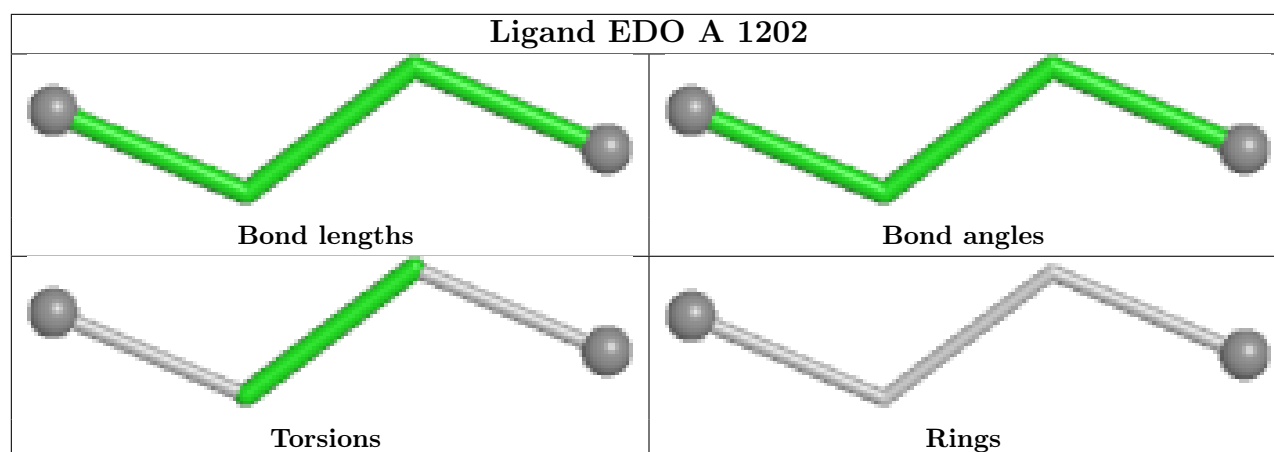
Mol	Chain	Res	Type	Atoms
2	C	1201	EDO	O1-C1-C2-O2

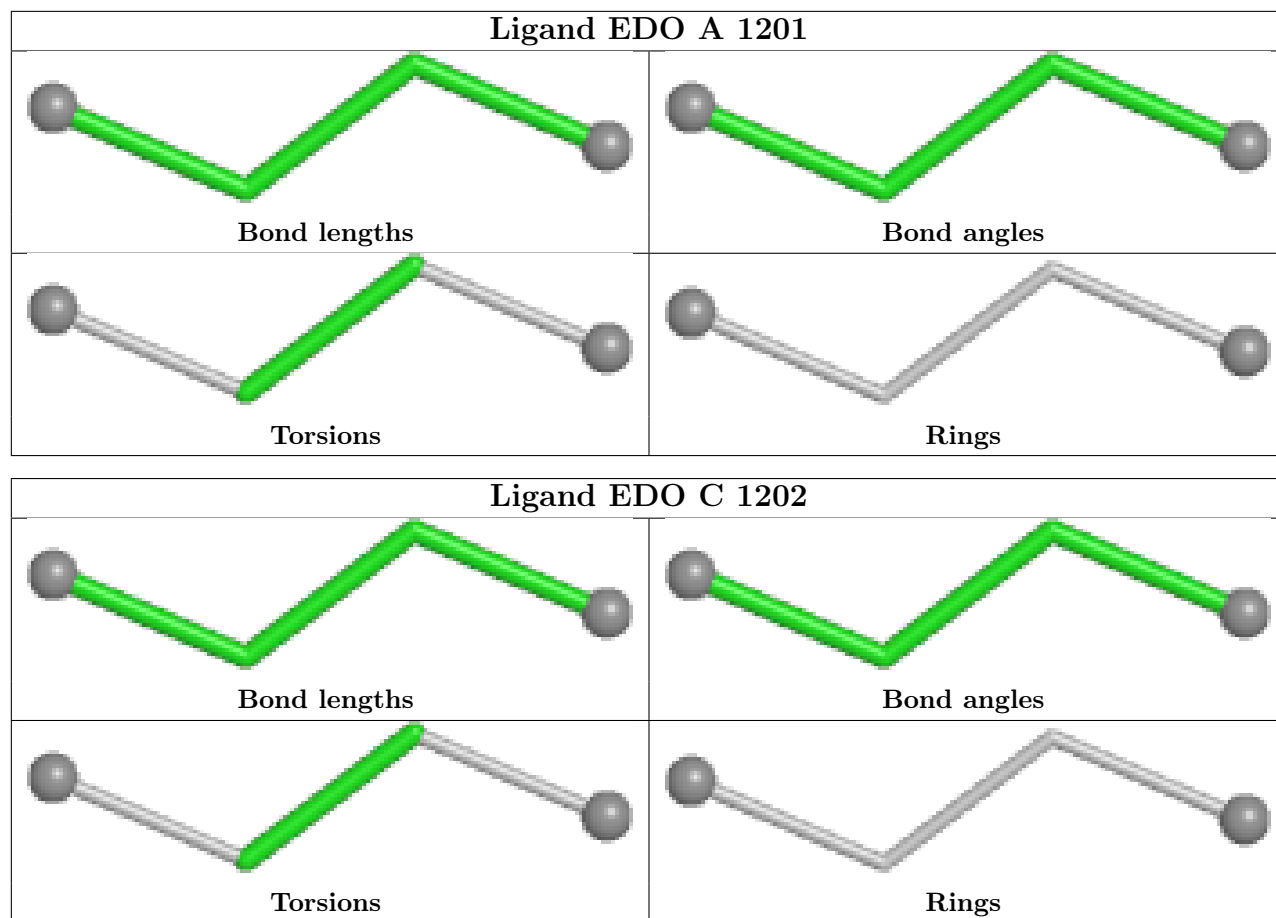
There are no ring outliers.

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	258/286 (90%)	-0.19	8 (3%)	51	61	8, 17, 33, 60	5 (1%)
1	B	255/286 (89%)	-0.07	11 (4%)	40	48	7, 18, 34, 100	1 (0%)
1	C	256/286 (89%)	-0.16	6 (2%)	61	71	8, 18, 31, 54	3 (1%)
All	All	769/858 (89%)	-0.14	25 (3%)	49	58	7, 18, 33, 100	9 (1%)

All (25) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	850	ASN	4.7
1	A	852	ASP	4.0
1	C	948	THR	3.6
1	A	851	ARG	3.3
1	B	851	ARG	3.3
1	B	880	ALA	3.2
1	B	879	PRO	3.0
1	B	875	THR	2.8
1	B	917	THR	2.8
1	B	852	ASP	2.7
1	C	852	ASP	2.6
1	A	850	ASN	2.5
1	B	899	THR	2.5
1	C	854	LEU	2.4
1	C	896	TRP	2.3
1	B	914	ASN	2.2
1	C	863	GLU	2.2
1	B	883	GLN	2.1
1	A	862	THR	2.1
1	B	884	THR	2.1
1	A	863	GLU	2.1
1	A	853	ASP	2.1
1	C	898	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	860	GLY	2.0
1	A	861	ALA	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 [i](#)

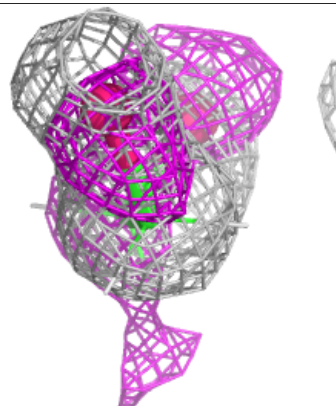
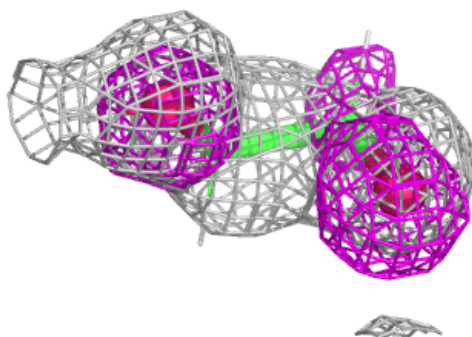
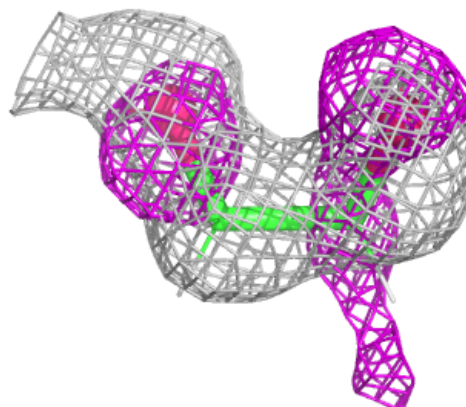
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	B	1203	4/4	0.80	0.20	19,23,26,29	0
2	EDO	B	1202	4/4	0.81	0.18	22,27,30,32	0
2	EDO	A	1202	4/4	0.88	0.19	22,27,30,32	0
2	EDO	C	1202	4/4	0.90	0.14	19,22,24,24	0
2	EDO	B	1201	4/4	0.94	0.10	17,20,22,22	0
2	EDO	C	1201	4/4	-	-	18,22,24,26	10
2	EDO	A	1201	4/4	0.94	0.11	17,20,22,22	0

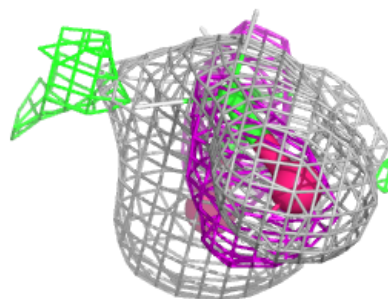
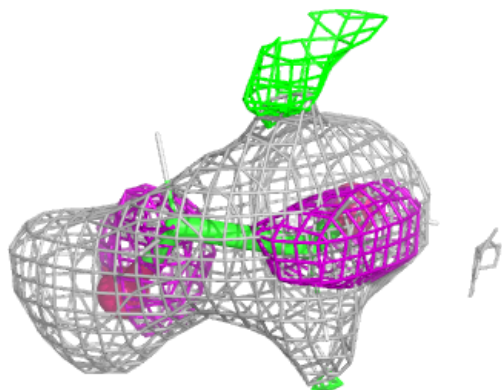
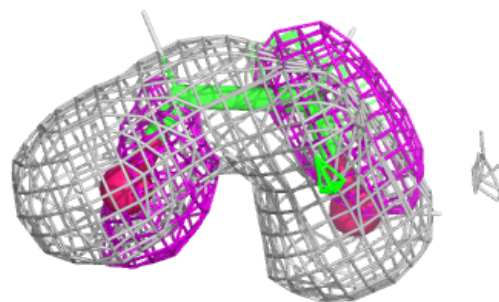
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around EDO B 1203:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

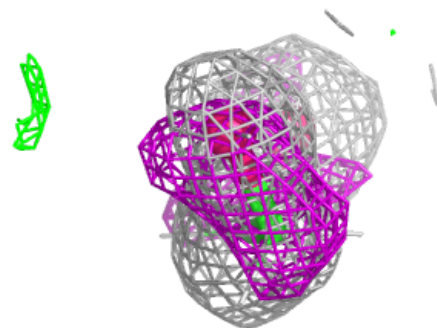
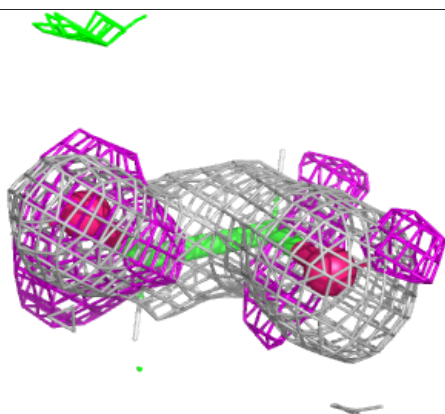
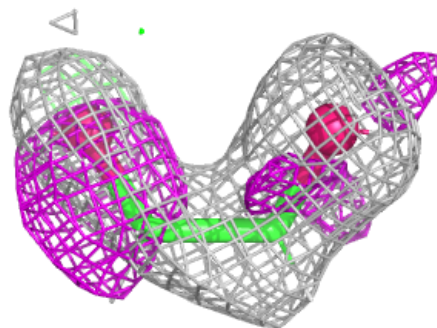
**Electron density around EDO B 1202:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

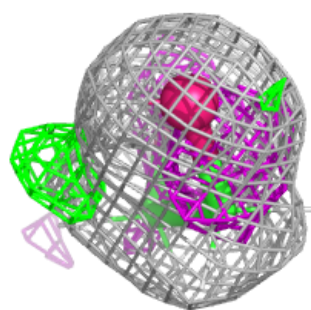
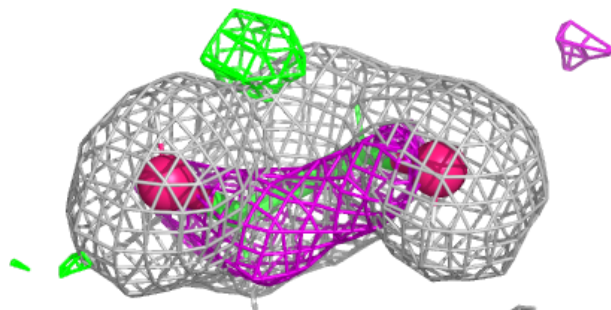
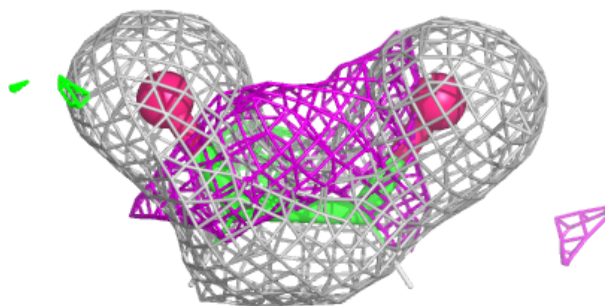


Electron density around EDO A 1202:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

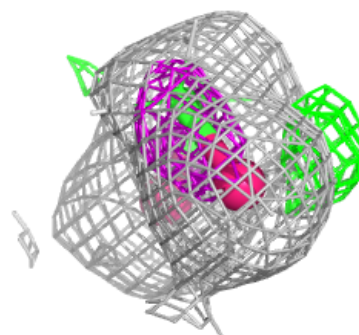
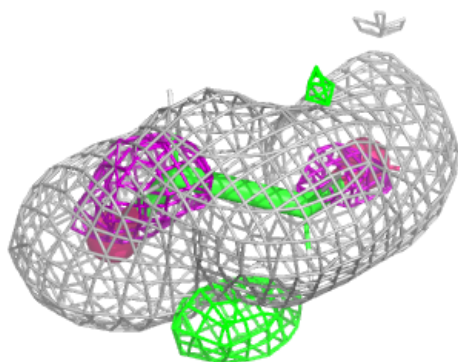
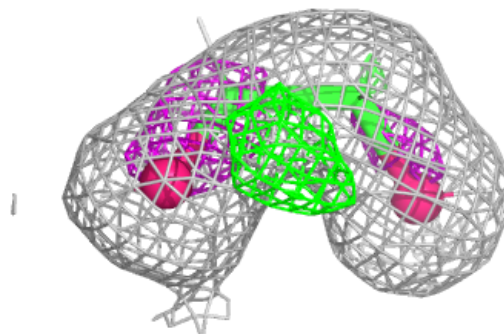
**Electron density around EDO C 1202:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

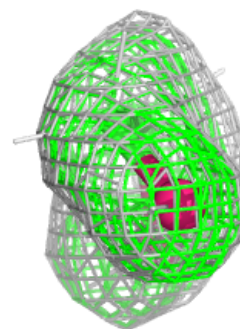
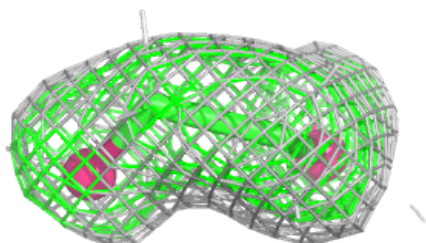
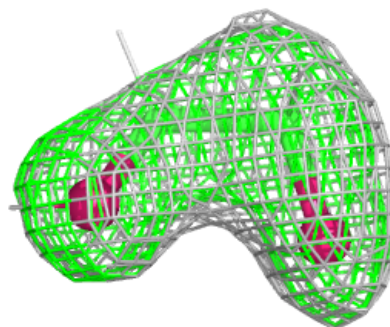


Electron density around EDO B 1201:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

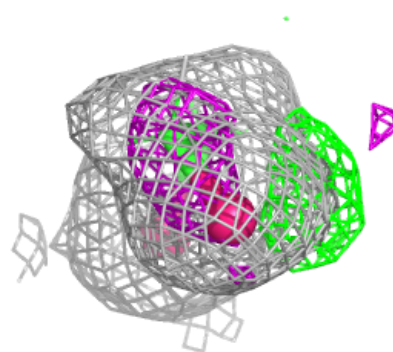
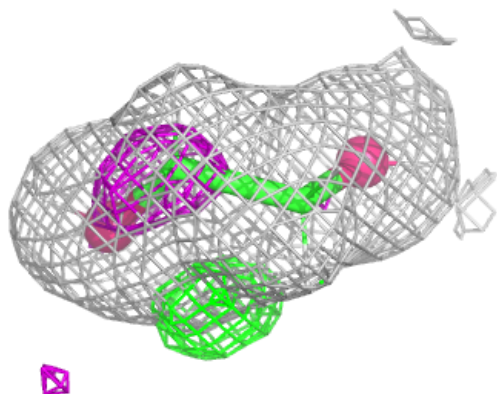
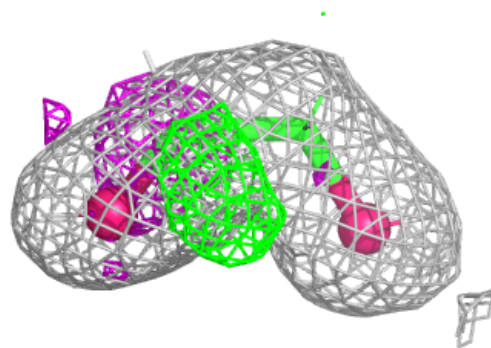
**Electron density around EDO C 1201:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around EDO A 1201:

$2mF_o-DF_c$ (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.