



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 6, 2023 – 09:18 PM EST

PDB ID : 6C3B
Title : O2-, PLP-Dependent L-Arginine Hydroxylase RohP Holoenzyme
Authors : Hedges, J.B.; Ryan, K.S.
Deposited on : 2018-01-09
Resolution : 1.51 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 : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

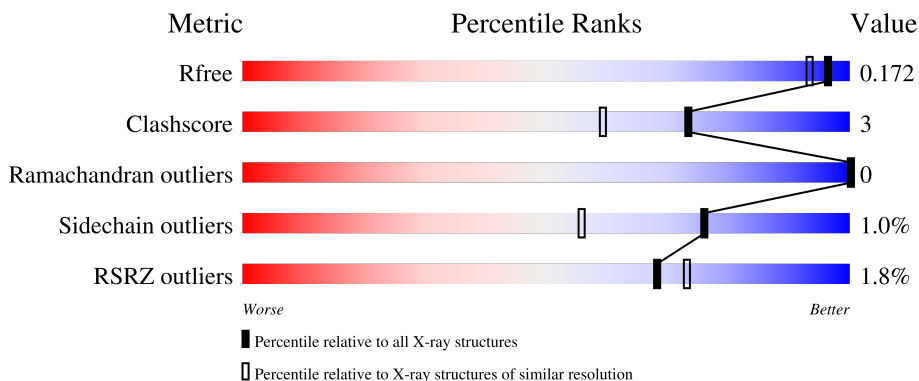
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

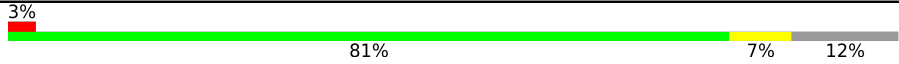

The reported resolution of this entry is 1.51 Å.

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}	130704	4009 (1.54-1.50)
Clashscore	141614	4249 (1.54-1.50)
Ramachandran outliers	138981	4148 (1.54-1.50)
Sidechain outliers	138945	4146 (1.54-1.50)
RSRZ outliers	127900	3943 (1.54-1.50)

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	413	 3% 81% 7% 12%
1	B	413	 84% 12%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6859 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 Uncharacterized protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
1	A	364	Total 2951	C 1895	N 486	O 548	P 1	S 21	0	9	0
1	B	364	Total 3000	C 1920	N 507	O 552	P 1	S 20	0	9	0

- Molecule 2 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



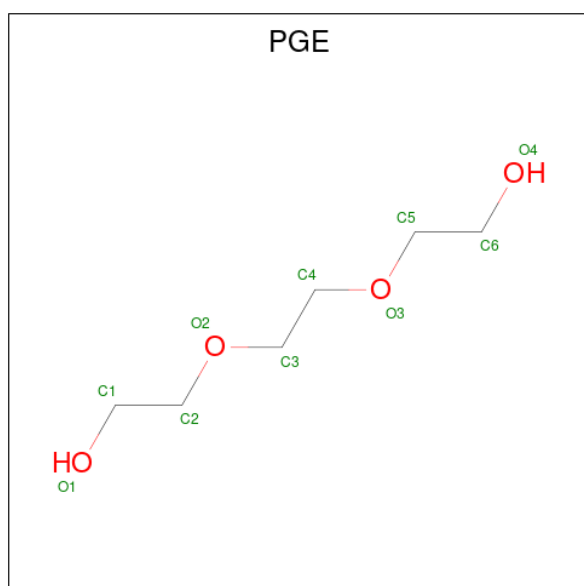
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	Total 4	C 2	O 2	0	0
2	A	1	Total 4	C 2	O 2	0	0
2	A	1	Total 4	C 2	O 2	0	0
2	A	1	Total 4	C 2	O 2	0	0

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

- Molecule 3 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			7	4	3		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			7	4	3		
3	B	1	Total	C	O	0	0
			10	6	4		

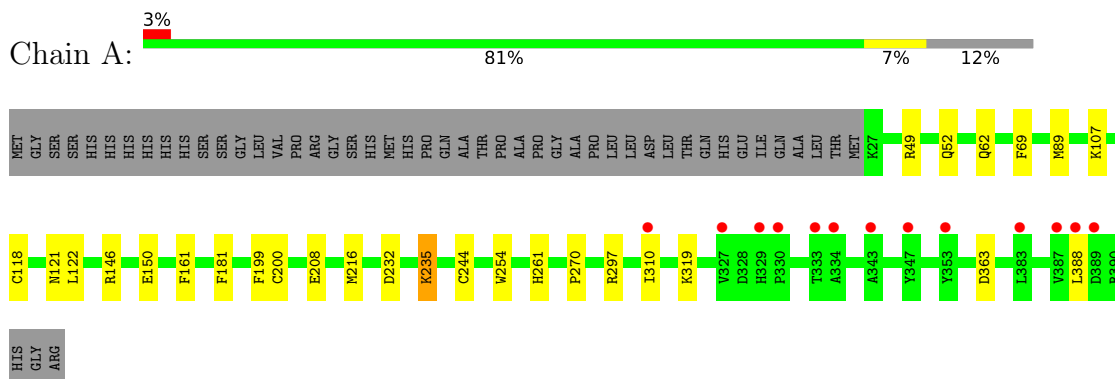
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	385	Total	O	0	0
			385	385		
4	B	443	Total	O	0	0
			443	443		

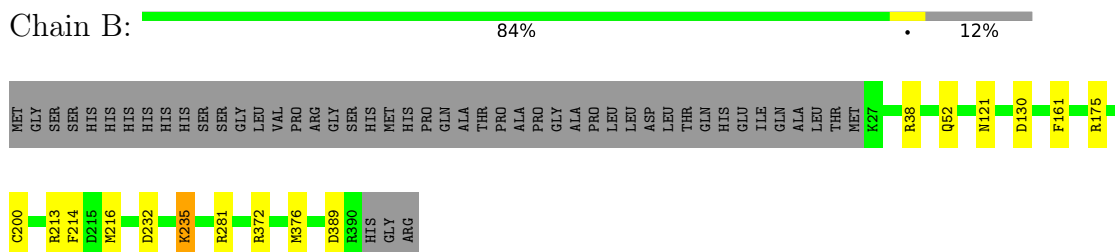
3 Residue-property plots [i](#)

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: Uncharacterized protein



- Molecule 1: Uncharacterized protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	79.38Å 112.41Å 102.16Å 90.00° 95.77° 90.00°	Depositor
Resolution (Å)	56.69 – 1.51 56.69 – 1.51	Depositor EDS
% Data completeness (in resolution range)	100.0 (56.69-1.51) 100.0 (56.69-1.51)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.96 (at 1.51Å)	Xtrriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, R_{free}	0.152 , 0.172 0.152 , 0.172	Depositor DCC
R_{free} test set	7175 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å ²)	14.1	Xtrriage
Anisotropy	0.213	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 51.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6859	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.57% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: LLP, EDO, PGE

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	0.34	0/3022	0.53	0/4110
1	B	0.35	0/3065	0.56	0/4160
All	All	0.34	0/6087	0.54	0/8270

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 [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	2951	0	2869	20	1
1	B	3000	0	2948	16	1
2	A	20	0	30	3	0
2	B	36	0	54	3	0
3	A	14	0	18	2	0
3	B	10	0	14	3	0
4	A	385	0	0	4	0
4	B	443	0	0	4	1
All	All	6859	0	5933	39	2

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 3.

All (39) 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:49:ARG:NH2	4:A:505:HOH:O	2.25	0.69
1:A:89[B]:MET:CE	2:A:402:EDO:H22	2.21	0.69
3:A:407:PGE:O3	4:A:501:HOH:O	2.11	0.68
1:A:107:LYS:HA	2:B:403:EDO:H21	1.79	0.65
1:B:372:ARG:HB3	1:B:376:MET:CE	2.28	0.64
1:A:89[B]:MET:HE2	2:A:402:EDO:H22	1.80	0.64
1:B:175:ARG:HH12	3:B:410:PGE:H2	1.62	0.63
1:B:38:ARG:NH1	4:B:504:HOH:O	2.32	0.62
1:A:121:ASN:ND2	4:A:506:HOH:O	2.31	0.60
3:A:407:PGE:H1	4:A:540:HOH:O	2.01	0.60
1:B:213:ARG:HB2	1:B:216[A]:MET:HE2	1.85	0.58
2:B:409:EDO:O2	4:B:501:HOH:O	2.16	0.58
1:B:130:ASP:OD2	2:B:403:EDO:H22	2.05	0.57
1:A:200[B]:CYS:SG	1:A:232:ASP:HB2	2.45	0.56
1:A:200[A]:CYS:HB3	1:A:235:LLP:H2'2	1.89	0.55
1:B:372:ARG:HB3	1:B:376:MET:HE1	1.89	0.53
1:A:89[B]:MET:HE3	1:A:261:HIS:CG	2.44	0.53
1:B:200[A]:CYS:SG	1:B:232:ASP:HB2	2.48	0.53
1:B:281:ARG:NH1	4:B:512:HOH:O	2.42	0.53
1:A:146:ARG:NH2	1:A:150:GLU:OE1	2.37	0.52
1:B:214:PHE:CD1	1:B:216[A]:MET:HE1	2.45	0.51
1:B:175:ARG:HH22	3:B:410:PGE:H2	1.76	0.50
1:A:199:PHE:CZ	1:A:216[B]:MET:HG2	2.47	0.50
1:A:62:GLN:HE22	1:A:270:PRO:HD3	1.78	0.49
1:A:208:GLU:OE2	1:A:319:LYS:HE2	2.12	0.49
1:A:89[B]:MET:HE3	1:A:261:HIS:CD2	2.47	0.49
1:B:372:ARG:HD2	1:B:376:MET:HE1	1.95	0.48
1:B:372:ARG:HB3	1:B:376:MET:HE3	1.95	0.47
1:B:175:ARG:NH1	3:B:410:PGE:H2	2.31	0.45
1:A:319:LYS:HE3	1:A:319:LYS:HB2	1.58	0.44
1:A:199:PHE:HZ	1:A:216[B]:MET:HG2	1.81	0.43
1:A:118[B]:CYS:SG	1:A:122:LEU:HD23	2.58	0.43
1:A:310:ILE:HD11	1:A:388:LEU:HD22	1.99	0.43
1:B:213:ARG:HB2	1:B:216[A]:MET:CE	2.47	0.42
1:A:69:PHE:CZ	1:A:244[B]:CYS:SG	3.13	0.42
1:A:181:PHE:CD1	1:A:216[A]:MET:HE1	2.56	0.41
1:B:200[B]:CYS:HB3	1:B:235:LLP:H2'2	2.03	0.41
1:A:254:TRP:HH2	2:A:404:EDO:H22	1.86	0.41
1:B:121:ASN:ND2	4:B:519:HOH:O	2.47	0.41

All (2) 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)
1:A:146:ARG:NH1	1:B:389:ASP:OD2[1_455]	2.14	0.06
4:B:857:HOH:O	4:B:857:HOH:O[2_556]	2.16	0.04

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	370/413 (90%)	367 (99%)	3 (1%)	0	100	100
1	B	370/413 (90%)	366 (99%)	4 (1%)	0	100	100
All	All	740/826 (90%)	733 (99%)	7 (1%)	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	314/360 (87%)	310 (99%)	4 (1%)	69	43
1	B	322/360 (89%)	320 (99%)	2 (1%)	86	73
All	All	636/720 (88%)	630 (99%)	6 (1%)	76	60

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

Mol	Chain	Res	Type
1	A	52	GLN
1	A	161	PHE
1	A	297	ARG
1	A	363	ASP
1	B	52	GLN
1	B	161	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	62	GLN
1	A	191	HIS
1	B	52	GLN
1	B	121	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](#)

2 non-standard protein/DNA/RNA residues 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
1	LLP	B	235	1	23,24,25	0.84	1 (4%)	25,32,34	1.52	4 (16%)
1	LLP	A	235	1	23,24,25	0.90	1 (4%)	25,32,34	1.14	2 (8%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	LLP	B	235	1	-	1/16/17/19	0/1/1/1
1	LLP	A	235	1	-	1/16/17/19	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	235	LLP	C3-C2	2.68	1.43	1.40
1	B	235	LLP	C3-C2	2.12	1.43	1.40

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	235	LLP	OP3-P-OP4	-3.64	97.03	106.73
1	B	235	LLP	C5'-C5-C6	-2.83	114.72	119.37
1	A	235	LLP	C5'-C5-C6	-2.76	114.84	119.37
1	A	235	LLP	OP2-P-OP1	2.32	119.78	110.68
1	B	235	LLP	OP4-C5'-C5	2.30	113.74	109.35
1	B	235	LLP	OP4-P-OP1	2.08	112.30	106.47

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	235	LLP	C4-C4'-NZ-CE
1	B	235	LLP	C4-C4'-NZ-CE

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	B	235	LLP	1	0
1	A	235	LLP	1	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

17 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	403	-	3,3,3	0.48	0	2,2,2	0.30	0
2	EDO	A	404	-	3,3,3	0.46	0	2,2,2	0.30	0
2	EDO	B	406	-	3,3,3	0.56	0	2,2,2	0.35	0
2	EDO	B	405	-	3,3,3	0.47	0	2,2,2	0.36	0
2	EDO	B	408	-	3,3,3	0.47	0	2,2,2	0.40	0
3	PGE	A	407	-	6,6,9	0.50	0	5,5,8	0.67	0
3	PGE	B	410	-	9,9,9	0.50	0	8,8,8	0.27	0
2	EDO	A	403	-	3,3,3	0.46	0	2,2,2	0.43	0
2	EDO	B	401	-	3,3,3	0.48	0	2,2,2	0.15	0
2	EDO	B	409	-	3,3,3	0.43	0	2,2,2	0.36	0
2	EDO	B	407	-	3,3,3	0.50	0	2,2,2	0.11	0
2	EDO	B	404	-	3,3,3	0.44	0	2,2,2	0.54	0
2	EDO	A	401	-	3,3,3	0.46	0	2,2,2	0.53	0
3	PGE	A	406	-	6,6,9	0.48	0	5,5,8	0.30	0
2	EDO	A	405	-	3,3,3	0.46	0	2,2,2	0.28	0
2	EDO	A	402	-	3,3,3	0.46	0	2,2,2	0.53	0
2	EDO	B	402	-	3,3,3	0.48	0	2,2,2	0.50	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	403	-	-	0/1/1/1	-
2	EDO	A	404	-	-	0/1/1/1	-
2	EDO	B	406	-	-	0/1/1/1	-
2	EDO	B	405	-	-	0/1/1/1	-
2	EDO	B	408	-	-	0/1/1/1	-
3	PGE	A	407	-	-	3/4/4/7	-
3	PGE	B	410	-	-	3/7/7/7	-
2	EDO	A	403	-	-	0/1/1/1	-
2	EDO	B	401	-	-	0/1/1/1	-
2	EDO	B	409	-	-	0/1/1/1	-
2	EDO	B	407	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	EDO	B	404	-	-	0/1/1/1	-
2	EDO	A	401	-	-	1/1/1/1	-
3	PGE	A	406	-	-	2/4/4/7	-
2	EDO	A	405	-	-	0/1/1/1	-
2	EDO	A	402	-	-	0/1/1/1	-
2	EDO	B	402	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	407	PGE	O2-C3-C4-O3
3	B	410	PGE	O1-C1-C2-O2
3	A	406	PGE	O2-C3-C4-O3
3	A	406	PGE	O1-C1-C2-O2
3	B	410	PGE	C4-C3-O2-C2
3	B	410	PGE	C6-C5-O3-C4
3	A	407	PGE	C4-C3-O2-C2
3	A	407	PGE	C1-C2-O2-C3
2	A	401	EDO	O1-C1-C2-O2
2	B	402	EDO	O1-C1-C2-O2

There are no ring outliers.

6 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	403	EDO	2	0
2	A	404	EDO	1	0
3	A	407	PGE	2	0
3	B	410	PGE	3	0
2	B	409	EDO	1	0
2	A	402	EDO	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	363/413 (87%)	-0.04	13 (3%) 42 47	10, 18, 45, 62	0
1	B	363/413 (87%)	-0.28	0 100 100	9, 16, 32, 61	0
All	All	726/826 (87%)	-0.16	13 (1%) 68 73	9, 17, 40, 62	0

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	310	ILE	4.5
1	A	388	LEU	4.3
1	A	353	TYR	3.3
1	A	343	ALA	3.3
1	A	330	PRO	3.1
1	A	387	VAL	3.1
1	A	383	LEU	2.9
1	A	329	HIS	2.6
1	A	334	ALA	2.6
1	A	333	THR	2.5
1	A	389	ASP	2.3
1	A	327	VAL	2.2
1	A	347	TYR	2.1

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	LLP	A	235	24/25	0.96	0.08	14,18,25,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
1	LLP	B	235	24/25	0.97	0.07	12,16,20,25	0

6.3 Carbohydrates [i](#)

There are no monosaccharides 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(\AA^2)	Q<0.9
2	EDO	B	403	4/4	0.62	0.19	30,38,41,49	0
2	EDO	B	407	4/4	0.78	0.13	30,38,42,48	0
3	PGE	B	410	10/10	0.82	0.16	43,47,52,52	0
2	EDO	A	402	4/4	0.83	0.15	17,17,19,19	0
2	EDO	B	402	4/4	0.86	0.11	30,33,38,45	0
2	EDO	A	404	4/4	0.87	0.11	51,51,51,56	0
3	PGE	A	406	7/10	0.88	0.11	34,41,48,49	0
2	EDO	B	401	4/4	0.90	0.10	28,29,31,33	0
2	EDO	B	409	4/4	0.91	0.12	41,41,47,52	0
2	EDO	A	401	4/4	0.92	0.10	23,25,27,30	0
2	EDO	B	406	4/4	0.92	0.10	16,16,19,19	0
2	EDO	B	408	4/4	0.94	0.20	20,30,34,37	0
2	EDO	B	405	4/4	0.94	0.14	17,26,28,31	0
3	PGE	A	407	7/10	0.95	0.18	16,31,35,39	0
2	EDO	A	405	4/4	0.96	0.26	25,37,39,43	0
2	EDO	A	403	4/4	0.98	0.05	16,16,17,18	0
2	EDO	B	404	4/4	0.98	0.07	14,18,18,19	0

6.5 Other polymers [i](#)

There are no such residues in this entry.