



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 24, 2025 – 06:25 am BST

PDB ID : 5NQP / pdb_00005nqp
Title : Structure of a fHbp(V1.4):PorA(P1.16) chimera. Fusion at fHbp position 151.
Authors : Johnson, S.; Hollingshead, S.; Lea, S.M.; Tang, C.M.
Deposited on : 2017-04-20
Resolution : 2.86 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	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
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)	:	2.46

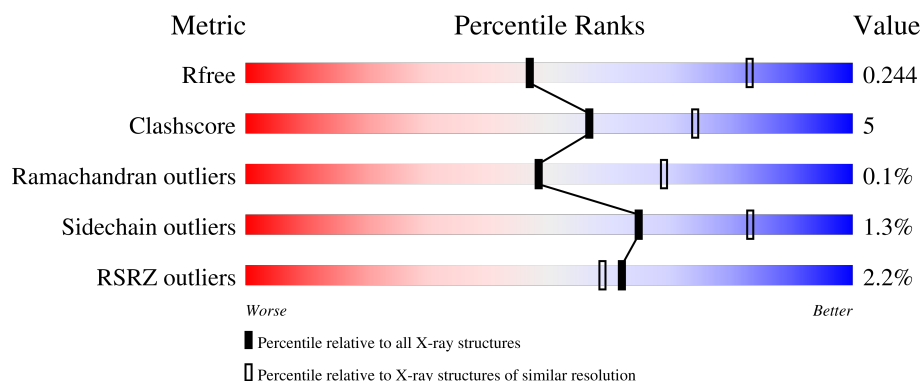
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.86 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}	164625	1268 (2.88-2.84)
Clashscore	180529	1351 (2.88-2.84)
Ramachandran outliers	177936	1318 (2.88-2.84)
Sidechain outliers	177891	1319 (2.88-2.84)
RSRZ outliers	164620	1269 (2.88-2.84)

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	271	
1	B	271	
1	C	271	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 6007 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 Factor H binding protein variant B16_001, Major outer membrane protein P.IA, Factor H binding protein variant B16_001.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	C	257	Total	C	N	O	S	0	0	0
			1963	1218	349	395	1			
1	A	264	Total	C	N	O	S	0	0	0
			2004	1243	356	404	1			
1	B	255	Total	C	N	O	S	0	0	0
			1949	1210	347	391	1			

There are 27 discrepancies between the modelled and reference sequences:

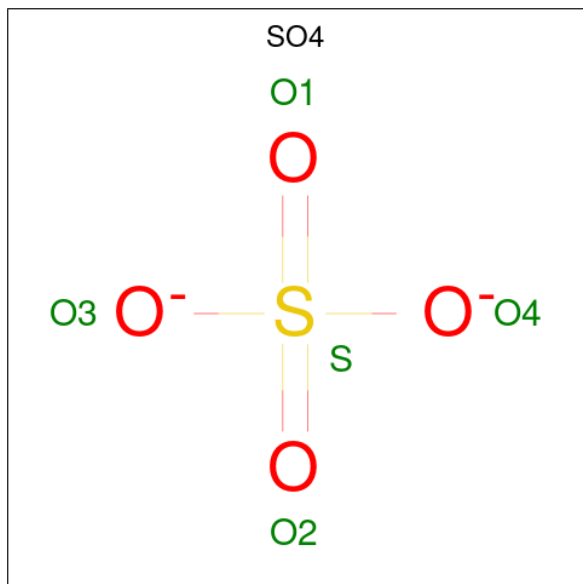
Chain	Residue	Modelled	Actual	Comment	Reference
C	71	MET	-	initiating methionine	UNP Q6VS06
C	321	LEU	-	expression tag	UNP Q6VS06
C	322	GLU	-	expression tag	UNP Q6VS06
C	323	HIS	-	expression tag	UNP Q6VS06
C	324	HIS	-	expression tag	UNP Q6VS06
C	325	HIS	-	expression tag	UNP Q6VS06
C	326	HIS	-	expression tag	UNP Q6VS06
C	327	HIS	-	expression tag	UNP Q6VS06
C	328	HIS	-	expression tag	UNP Q6VS06
A	71	MET	-	initiating methionine	UNP Q6VS06
A	321	LEU	-	expression tag	UNP Q6VS06
A	322	GLU	-	expression tag	UNP Q6VS06
A	323	HIS	-	expression tag	UNP Q6VS06
A	324	HIS	-	expression tag	UNP Q6VS06
A	325	HIS	-	expression tag	UNP Q6VS06
A	326	HIS	-	expression tag	UNP Q6VS06
A	327	HIS	-	expression tag	UNP Q6VS06
A	328	HIS	-	expression tag	UNP Q6VS06
B	71	MET	-	initiating methionine	UNP Q6VS06
B	321	LEU	-	expression tag	UNP Q6VS06
B	322	GLU	-	expression tag	UNP Q6VS06
B	323	HIS	-	expression tag	UNP Q6VS06

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Chain	Residue	Modelled	Actual	Comment	Reference
B	324	HIS	-	expression tag	UNP Q6VS06
B	325	HIS	-	expression tag	UNP Q6VS06
B	326	HIS	-	expression tag	UNP Q6VS06
B	327	HIS	-	expression tag	UNP Q6VS06
B	328	HIS	-	expression tag	UNP Q6VS06

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	C	1	Total	O	S	0	0
			5	4	1		
2	A	1	Total	O	S	0	0
			5	4	1		
2	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	2	Total	Cl	0	0
			2	2		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	2	Total	Cl	0	0
			2	2		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	C	11	Total	O	0	0
			11	11		
5	A	10	Total	O	0	0
			10	10		
5	B	7	Total	O	0	0
			7	7		

4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	100.72Å 171.42Å 131.46Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.74 – 2.86 40.74 – 2.86	Depositor EDS
% Data completeness (in resolution range)	99.0 (40.74-2.86) 98.9 (40.74-2.86)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.21 (at 2.86Å)	Xtriage
Refinement program	PHENIX (1.10_2155: ???)	Depositor
R, R_{free}	0.198 , 0.239 0.201 , 0.244	Depositor DCC
R_{free} test set	1240 reflections (3.89%)	wwPDB-VP
Wilson B-factor (Å ²)	64.7	Xtriage
Anisotropy	0.726	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 69.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.018 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l 0.024 for 1/2*h+1/2*k,3/2*h-1/2*k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6007	wwPDB-VP
Average B, all atoms (Å ²)	83.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.07% 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: CL, SO4, 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	0.13	0/2032	0.38	0/2735
1	B	0.12	0/1977	0.34	0/2660
1	C	0.13	0/1991	0.36	0/2679
All	All	0.13	0/6000	0.36	0/8074

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	2004	0	1984	16	0
1	B	1949	0	1933	19	1
1	C	1963	0	1944	20	0
2	A	5	0	0	1	0
2	B	5	0	0	0	0
2	C	5	0	0	1	0
3	A	8	0	12	0	0
3	B	12	0	18	1	1
3	C	24	0	36	4	0
4	A	2	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	2	0	0	1	0
5	A	10	0	0	0	0
5	B	7	0	0	0	0
5	C	11	0	0	0	0
All	All	6007	0	5927	54	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 5.

All (54) 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:95:SER:HB2	1:A:167:SER:HA	1.68	0.75
1:B:95:SER:HB2	1:B:167:SER:HA	1.68	0.74
1:C:95:SER:HB2	1:C:167:SER:HA	1.80	0.63
1:C:100:THR:H	3:C:404:EDO:H22	1.65	0.60
1:B:82:ALA:HB2	1:B:116:GLN:HB2	1.84	0.60
1:C:143:PHE:HB3	1:C:161:PHE:HB2	1.84	0.59
1:B:81:LEU:HB3	1:B:116:GLN:HG3	1.84	0.58
1:A:143:PHE:HB3	1:A:161:PHE:HB2	1.86	0.57
1:A:297:GLN:NE2	2:A:401:SO4:O4	2.31	0.57
1:B:99:LEU:HD12	1:B:200:ALA:HB3	1.89	0.55
1:C:261:SER:HA	3:C:405:EDO:H11	1.89	0.55
1:A:82:ALA:HB2	1:A:116:GLN:HB2	1.88	0.54
1:C:297:GLN:NE2	2:C:401:SO4:O3	2.41	0.54
1:B:94:LYS:HE3	1:B:135:ASN:OD1	2.08	0.54
1:B:199:ILE:HD13	1:B:301:GLY:HA2	1.90	0.53
1:C:157:GLU:OE2	1:C:176:THR:OG1	2.21	0.52
1:C:150(A):TYR:HB2	1:C:150(M):VAL:HG13	1.91	0.52
1:B:143:PHE:HB3	1:B:161:PHE:HB2	1.91	0.51
1:A:231:LEU:HD22	1:A:316:LEU:HB3	1.93	0.50
1:A:200:ALA:HB1	4:A:405:CL:CL	2.48	0.50
1:C:282:ALA:HB1	1:B:282:ALA:HB1	1.95	0.49
1:A:221:ALA:O	1:A:229:GLY:HA3	2.13	0.49
1:C:267:LYS:HG3	3:C:406:EDO:H21	1.95	0.48
1:B:114:ALA:HA	1:B:118:ALA:O	2.14	0.48
1:C:121:THR:HG21	3:C:402:EDO:H22	1.95	0.48
1:C:150(D):LYS:NZ	4:C:409:CL:CL	2.82	0.48
1:A:95:SER:OG	1:A:165:LYS:HE2	2.15	0.46
1:C:254:LEU:HD22	1:C:314:ILE:HD11	1.98	0.46
1:C:277:VAL:HG11	1:C:305:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:199:ILE:HD13	1:C:301:GLY:HA2	1.98	0.46
1:B:219:GLY:HA3	1:B:318:ALA:HA	1.98	0.46
1:C:82:ALA:HB2	1:C:116:GLN:HB2	1.98	0.45
1:C:114:ALA:HA	1:C:118:ALA:O	2.16	0.45
1:B:157:GLU:OE2	1:B:176:THR:OG1	2.23	0.45
1:B:85:LEU:O	1:B:120:LYS:HD2	2.16	0.45
1:A:181:ASP:CG	1:A:184:HIS:HB2	2.42	0.44
1:B:113:LEU:O	1:B:119:GLU:HA	2.17	0.44
1:A:145:ARG:O	1:A:156:LEU:N	2.48	0.43
1:B:146:GLN:HG2	1:B:155:THR:HA	1.99	0.43
1:B:176:THR:O	1:B:192:ARG:HA	2.19	0.43
1:A:105:VAL:HG22	1:A:111:LEU:HD22	2.01	0.43
1:A:143:PHE:HE1	1:A:157:GLU:HG3	1.85	0.42
1:A:221:ALA:HA	1:A:315:GLY:O	2.20	0.42
1:C:242:GLY:O	1:C:260:ALA:HA	2.19	0.42
1:A:278:LEU:HD23	1:A:283:GLU:HA	2.02	0.41
1:B:266:ASP:OD1	1:B:270:HIS:N	2.35	0.41
1:B:105:VAL:HA	1:B:145:ARG:HH12	1.85	0.41
1:A:219:GLY:HA3	1:A:318:ALA:HA	2.03	0.41
1:B:267:LYS:H	3:B:403:EDO:H21	1.86	0.41
1:C:219:GLY:HA3	1:C:318:ALA:HA	2.02	0.41
1:B:285:GLY:HA3	1:B:304:GLU:O	2.21	0.41
1:C:184:HIS:HB2	1:C:185:SER:H	1.65	0.41
1:A:185:SER:O	1:A:187:LYS:N	2.49	0.41
1:C:176:THR:O	1:C:192:ARG:HA	2.22	0.40

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)
1:B:150(D):LYS:NZ	3:B:404:EDO:O2[3_454]	1.30	0.90

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	262/271 (97%)	245 (94%)	16 (6%)	1 (0%)	30	49
1	B	253/271 (93%)	244 (96%)	9 (4%)	0	100	100
1	C	255/271 (94%)	244 (96%)	11 (4%)	0	100	100
All	All	770/813 (95%)	733 (95%)	36 (5%)	1 (0%)	48	69

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	186	GLY

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	210/217 (97%)	207 (99%)	3 (1%)	62	82
1	B	206/217 (95%)	203 (98%)	3 (2%)	60	81
1	C	207/217 (95%)	205 (99%)	2 (1%)	73	87
All	All	623/651 (96%)	615 (99%)	8 (1%)	65	83

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	99	LEU
1	C	105	VAL
1	A	99	LEU
1	A	105	VAL
1	A	181	ASP
1	B	99	LEU
1	B	105	VAL
1	B	187	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such

sidechains are listed below:

Mol	Chain	Res	Type
1	C	97	GLN
1	C	175	GLN
1	C	203	HIS
1	A	97	GLN
1	A	150(G)	ASN
1	A	203	HIS
1	B	97	GLN
1	B	175	GLN
1	B	243	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 18 ligands modelled in this entry, 4 are monoatomic - leaving 14 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	$\# Z > 2$
3	EDO	C	407	-	3,3,3	0.48	0	2,2,2	0.35	0
2	SO4	B	401	-	4,4,4	0.14	0	6,6,6	0.06	0
3	EDO	C	402	-	3,3,3	0.47	0	2,2,2	0.33	0
3	EDO	C	404	-	3,3,3	0.47	0	2,2,2	0.31	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	A	402	-	3,3,3	0.47	0	2,2,2	0.36	0
3	EDO	B	403	-	3,3,3	0.45	0	2,2,2	0.34	0
3	EDO	C	406	-	3,3,3	0.47	0	2,2,2	0.36	0
3	EDO	C	403	-	3,3,3	0.46	0	2,2,2	0.34	0
3	EDO	C	405	-	3,3,3	0.47	0	2,2,2	0.31	0
2	SO4	C	401	-	4,4,4	0.15	0	6,6,6	0.04	0
3	EDO	A	403	-	3,3,3	0.48	0	2,2,2	0.36	0
3	EDO	B	404	-	3,3,3	0.47	0	2,2,2	0.24	0
2	SO4	A	401	-	4,4,4	0.14	0	6,6,6	0.05	0
3	EDO	B	402	-	3,3,3	0.46	0	2,2,2	0.36	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
3	EDO	C	407	-	-	0/1/1/1	-
3	EDO	C	404	-	-	0/1/1/1	-
3	EDO	C	402	-	-	0/1/1/1	-
3	EDO	A	402	-	-	0/1/1/1	-
3	EDO	B	403	-	-	0/1/1/1	-
3	EDO	C	406	-	-	0/1/1/1	-
3	EDO	C	403	-	-	0/1/1/1	-
3	EDO	C	405	-	-	0/1/1/1	-
3	EDO	A	403	-	-	0/1/1/1	-
3	EDO	B	404	-	-	0/1/1/1	-
3	EDO	B	402	-	-	0/1/1/1	-

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.

8 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	402	EDO	1	0
3	C	404	EDO	1	0
3	B	403	EDO	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	406	EDO	1	0
3	C	405	EDO	1	0
2	C	401	SO4	1	0
3	B	404	EDO	0	1
2	A	401	SO4	1	0

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	264/271 (97%)	-0.17	8 (3%)	52	49	55, 73, 124, 183	0
1	B	255/271 (94%)	-0.01	5 (1%)	64	61	63, 87, 125, 166	0
1	C	257/271 (94%)	-0.27	4 (1%)	70	67	46, 72, 115, 183	0
All	All	776/813 (95%)	-0.15	17 (2%)	62	59	46, 77, 126, 183	0

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	79	ALA	4.9
1	B	125	GLY	3.8
1	B	321	LEU	3.0
1	A	89	LEU	3.0
1	A	75	ALA	2.9
1	A	95	SER	2.7
1	B	89	LEU	2.7
1	B	80	GLY	2.6
1	A	190	ALA	2.6
1	C	123	GLY	2.5
1	A	91	HIS	2.4
1	A	74	ALA	2.4
1	B	123	GLY	2.4
1	A	187	LYS	2.3
1	C	89	LEU	2.2
1	A	73	VAL	2.1
1	C	150(I)	ASN	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 ⓘ

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
3	EDO	A	402	4/4	0.57	0.31	89,92,97,100	0
2	SO4	C	401	5/5	0.65	0.11	146,150,151,153	0
2	SO4	B	401	5/5	0.74	0.08	140,141,142,142	0
3	EDO	C	406	4/4	0.77	0.24	77,82,85,87	0
3	EDO	A	403	4/4	0.77	0.18	72,77,79,80	0
3	EDO	C	405	4/4	0.81	0.24	72,76,78,79	0
2	SO4	A	401	5/5	0.82	0.13	120,122,124,127	0
3	EDO	C	402	4/4	0.82	0.16	90,91,92,95	0
3	EDO	B	404	4/4	0.83	0.17	78,79,79,80	0
3	EDO	B	403	4/4	0.86	0.23	88,89,89,95	0
4	CL	A	405	1/1	0.88	0.12	98,98,98,98	0
3	EDO	C	407	4/4	0.89	0.16	83,83,86,87	0
4	CL	A	404	1/1	0.91	0.21	94,94,94,94	0
3	EDO	B	402	4/4	0.91	0.21	88,89,90,90	0
3	EDO	C	404	4/4	0.92	0.11	78,79,81,84	0
3	EDO	C	403	4/4	0.94	0.18	77,78,79,81	0
4	CL	C	409	1/1	0.97	0.15	63,63,63,63	0
4	CL	C	408	1/1	0.98	0.15	64,64,64,64	0

6.5 Other polymers ⓘ

There are no such residues in this entry.