



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2018 – 10:19 pm GMT

PDB ID : 4Q6K
Title : Crystal structure of a putative neuraminidase (BACCAC_01090) from *Bacteroides caccae* ATCC 43185 at 1.90 Å resolution (PSI Community Target)
Authors : Joint Center for Structural Genomics (JCSG)
Deposited on : 2014-04-22
Resolution : 1.90 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk31020
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk31020

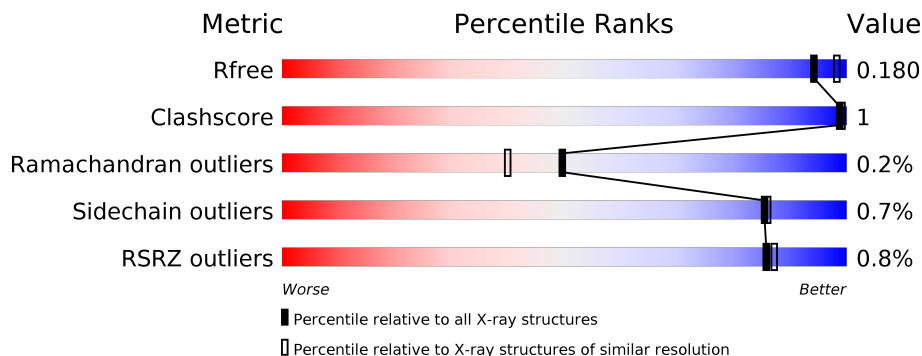
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

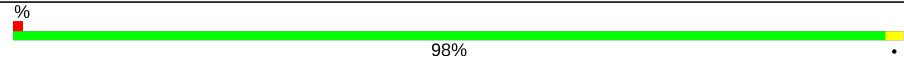
The reported resolution of this entry is 1.90 Å.

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}	111664	5502 (1.90-1.90)
Clashscore	122126	6115 (1.90-1.90)
Ramachandran outliers	120053	6048 (1.90-1.90)
Sidechain outliers	120020	6048 (1.90-1.90)
RSRZ outliers	108989	5379 (1.90-1.90)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	525	 97%
1	B	525	 98%
1	C	525	 97%
1	D	525	 98%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 18823 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 BNR/Asp-box repeat protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	S	Se			
1	A	523	4098	2587	712	781	2	16	0	9	0
1	B	523	4146	2616	724	788	2	16	0	16	0
1	C	523	4138	2609	721	789	2	17	0	16	0
1	D	523	4125	2601	723	783	2	16	0	12	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	LEADER SEQUENCE	UNP A5ZDY0
B	0	GLY	-	LEADER SEQUENCE	UNP A5ZDY0
C	0	GLY	-	LEADER SEQUENCE	UNP A5ZDY0
D	0	GLY	-	LEADER SEQUENCE	UNP A5ZDY0

- Molecule 2 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	K	0	0
			1	1		
2	A	1	Total	K	0	0
			1	1		

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
3	A	1	Total C O 4 2 2	0	0
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
3	B	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
3	B	1	Total C O 4 2 2	0	0

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

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	574	Total O 574 574	0	0
4	B	583	Total O 583 583	0	0
4	C	512	Total O 512 512	0	0

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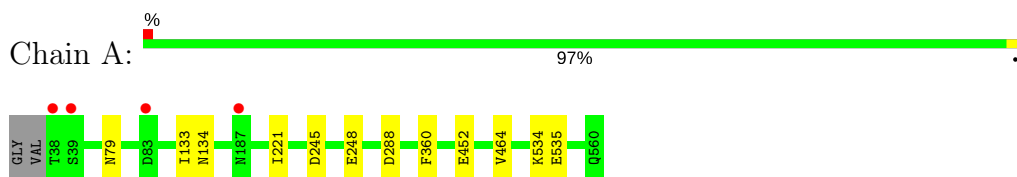
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	D	525	Total	O	0	0
			525	525		

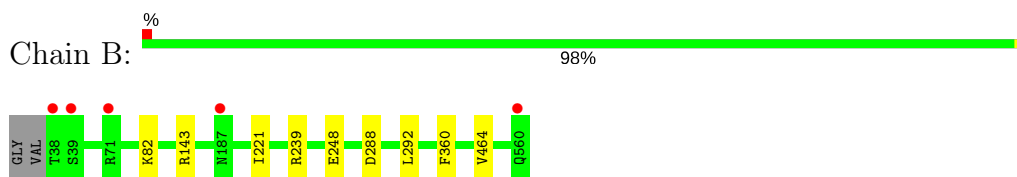
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

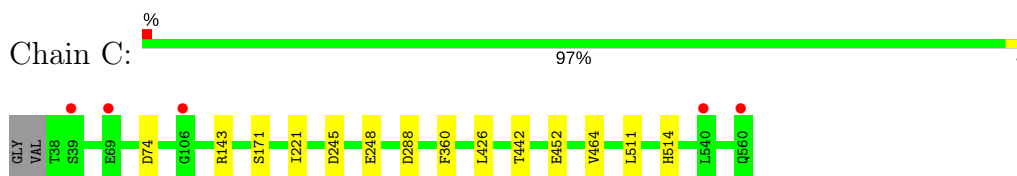
- Molecule 1: BNR/Asp-box repeat protein



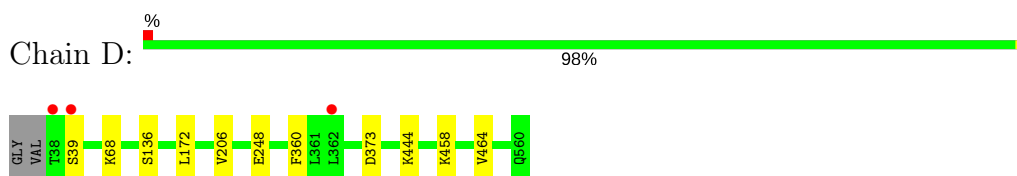
- Molecule 1: BNR/Asp-box repeat protein



- Molecule 1: BNR/Asp-box repeat protein



- Molecule 1: BNR/Asp-box repeat protein



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	95.89Å 124.34Å 107.71Å 90.00° 91.61° 90.00°	Depositor
Resolution (Å)	29.78 – 1.90 29.78 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.6 (29.78-1.90) 99.6 (29.78-1.90)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.55 (at 1.91Å)	Xtrriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.138 , 0.173 0.147 , 0.180	Depositor DCC
R_{free} test set	9920 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	18.1	Xtrriage
Anisotropy	0.204	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 47.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	0.029 for h,-k,-l	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	18823	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.92% 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: K, 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	0.54	0/4196	0.66	1/5674 (0.0%)
1	B	0.52	0/4255	0.68	1/5750 (0.0%)
1	C	0.50	0/4250	0.65	1/5743 (0.0%)
1	D	0.49	0/4219	0.65	1/5698 (0.0%)
All	All	0.51	0/16920	0.66	4/22865 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	245	ASP	CB-CG-OD1	5.54	123.28	118.30
1	B	239	ARG	NE-CZ-NH2	-5.19	117.70	120.30
1	D	373	ASP	CB-CG-OD1	5.18	122.96	118.30
1	A	245	ASP	CB-CG-OD1	5.13	122.92	118.30

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	4098	0	4093	6	0
1	B	4146	0	4153	3	0
1	C	4138	0	4140	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	4125	0	4130	4	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	32	0	48	3	0
3	B	44	0	64	0	0
3	C	16	0	24	0	0
3	D	28	0	42	0	0
4	A	574	0	0	1	0
4	B	583	0	0	0	0
4	C	512	0	0	2	0
4	D	525	0	0	2	0
All	All	18823	0	16694	18	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 1.

All (18) 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:134:ASN:H	3:A:609:EDO:C2	2.15	0.58
1:D:458[A]:LYS:NZ	4:D:800:HOH:O	2.38	0.56
1:C:74:ASP:OD1	4:C:1200:HOH:O	2.19	0.53
1:A:221:ILE:HG21	1:A:288:ASP:HA	1.92	0.52
1:C:452:GLU:OE2	4:C:1199:HOH:O	2.18	0.49
1:D:444:LYS:NZ	4:D:1187:HOH:O	2.45	0.48
1:D:39[B]:SER:CB	1:D:68:LYS:HD2	2.44	0.47
1:B:82:LYS:HA	1:B:143[B]:ARG:HD3	1.97	0.46
1:C:221:ILE:HG21	1:C:288:ASP:HA	1.99	0.44
1:D:172[B]:LEU:HD21	1:D:206:VAL:HG23	1.98	0.44
1:A:534:LYS:HG3	1:A:535:GLU:HG3	2.00	0.43
1:C:511:LEU:HD12	1:C:514:HIS:CE1	2.54	0.43
1:A:452:GLU:OE2	4:A:1261:HOH:O	2.21	0.43
1:B:221:ILE:HG21	1:B:288:ASP:HA	2.00	0.43
1:C:426:LEU:O	1:C:442:THR:HA	2.19	0.42
1:A:134:ASN:HB2	3:A:609:EDO:H21	2.02	0.42
1:A:133:ILE:HA	3:A:609:EDO:H22	2.02	0.41
1:B:292:LEU:HD12	1:B:292:LEU:C	2.41	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	531/525 (101%)	510 (96%)	20 (4%)	1 (0%)	49	40
1	B	537/525 (102%)	516 (96%)	20 (4%)	1 (0%)	49	40
1	C	537/525 (102%)	511 (95%)	25 (5%)	1 (0%)	49	40
1	D	532/525 (101%)	510 (96%)	21 (4%)	1 (0%)	49	40
All	All	2137/2100 (102%)	2047 (96%)	86 (4%)	4 (0%)	49	40

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	464	VAL
1	A	464	VAL
1	C	464	VAL
1	D	464	VAL

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	454/431 (105%)	451 (99%)	3 (1%)	85	86
1	B	461/431 (107%)	459 (100%)	2 (0%)	92	92
1	C	461/431 (107%)	456 (99%)	5 (1%)	76	75
1	D	457/431 (106%)	454 (99%)	3 (1%)	85	86
All	All	1833/1724 (106%)	1820 (99%)	13 (1%)	85	86

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	79	ASN
1	A	248	GLU
1	A	360	PHE
1	B	248	GLU
1	B	360	PHE
1	C	143[A]	ARG
1	C	143[B]	ARG
1	C	171	SER
1	C	248	GLU
1	C	360	PHE
1	D	136	SER
1	D	248	GLU
1	D	360	PHE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	D	514	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 32 ligands modelled in this entry, 2 are monoatomic - leaving 30 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	A	602	-	3,3,3	0.64	0	2,2,2	0.20	0
3	EDO	A	603	-	3,3,3	0.46	0	2,2,2	0.39	0
3	EDO	A	604	-	3,3,3	0.46	0	2,2,2	0.57	0
3	EDO	A	605	-	3,3,3	0.47	0	2,2,2	0.31	0
3	EDO	A	606	-	3,3,3	0.48	0	2,2,2	0.28	0
3	EDO	A	607	-	3,3,3	0.49	0	2,2,2	0.13	0
3	EDO	A	608	-	3,3,3	0.55	0	2,2,2	0.36	0
3	EDO	A	609	-	3,3,3	0.64	0	2,2,2	0.62	0
3	EDO	B	602	-	3,3,3	0.50	0	2,2,2	0.44	0
3	EDO	B	603	-	3,3,3	0.64	0	2,2,2	0.11	0
3	EDO	B	604	-	3,3,3	0.51	0	2,2,2	0.43	0
3	EDO	B	605	2	3,3,3	0.64	0	2,2,2	0.11	0
3	EDO	B	606	-	3,3,3	0.55	0	2,2,2	0.22	0
3	EDO	B	607	-	3,3,3	0.57	0	2,2,2	0.34	0
3	EDO	B	608	-	3,3,3	0.60	0	2,2,2	0.30	0
3	EDO	B	609	-	3,3,3	0.32	0	2,2,2	0.73	0
3	EDO	B	610	-	3,3,3	0.43	0	2,2,2	0.26	0
3	EDO	B	611	-	3,3,3	0.61	0	2,2,2	0.13	0
3	EDO	B	612	-	3,3,3	0.69	0	2,2,2	0.30	0
3	EDO	C	601	-	3,3,3	0.56	0	2,2,2	0.32	0
3	EDO	C	602	-	3,3,3	0.61	0	2,2,2	0.27	0
3	EDO	C	603	-	3,3,3	0.56	0	2,2,2	0.26	0
3	EDO	C	604	-	3,3,3	0.72	0	2,2,2	0.23	0
3	EDO	D	601	-	3,3,3	0.48	0	2,2,2	0.60	0
3	EDO	D	602	-	3,3,3	0.46	0	2,2,2	0.34	0
3	EDO	D	603	-	3,3,3	0.47	0	2,2,2	0.46	0
3	EDO	D	604	-	3,3,3	0.58	0	2,2,2	0.32	0
3	EDO	D	605	-	3,3,3	0.46	0	2,2,2	0.39	0
3	EDO	D	606	-	3,3,3	0.68	0	2,2,2	0.20	0
3	EDO	D	607	-	3,3,3	0.54	0	2,2,2	0.47	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	A	602	-	-	0/1/1/1	0/0/0/0
3	EDO	A	603	-	-	0/1/1/1	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	A	604	-	-	0/1/1/1	0/0/0/0
3	EDO	A	605	-	-	0/1/1/1	0/0/0/0
3	EDO	A	606	-	-	0/1/1/1	0/0/0/0
3	EDO	A	607	-	-	0/1/1/1	0/0/0/0
3	EDO	A	608	-	-	0/1/1/1	0/0/0/0
3	EDO	A	609	-	-	0/1/1/1	0/0/0/0
3	EDO	B	602	-	-	0/1/1/1	0/0/0/0
3	EDO	B	603	-	-	0/1/1/1	0/0/0/0
3	EDO	B	604	-	-	0/1/1/1	0/0/0/0
3	EDO	B	605	2	-	0/1/1/1	0/0/0/0
3	EDO	B	606	-	-	0/1/1/1	0/0/0/0
3	EDO	B	607	-	-	0/1/1/1	0/0/0/0
3	EDO	B	608	-	-	0/1/1/1	0/0/0/0
3	EDO	B	609	-	-	0/1/1/1	0/0/0/0
3	EDO	B	610	-	-	0/1/1/1	0/0/0/0
3	EDO	B	611	-	-	0/1/1/1	0/0/0/0
3	EDO	B	612	-	-	0/1/1/1	0/0/0/0
3	EDO	C	601	-	-	0/1/1/1	0/0/0/0
3	EDO	C	602	-	-	0/1/1/1	0/0/0/0
3	EDO	C	603	-	-	0/1/1/1	0/0/0/0
3	EDO	C	604	-	-	0/1/1/1	0/0/0/0
3	EDO	D	601	-	-	0/1/1/1	0/0/0/0
3	EDO	D	602	-	-	0/1/1/1	0/0/0/0
3	EDO	D	603	-	-	0/1/1/1	0/0/0/0
3	EDO	D	604	-	-	0/1/1/1	0/0/0/0
3	EDO	D	605	-	-	0/1/1/1	0/0/0/0
3	EDO	D	606	-	-	0/1/1/1	0/0/0/0
3	EDO	D	607	-	-	0/1/1/1	0/0/0/0

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.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	609	EDO	3	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	507/525 (96%)	-0.49	4 (0%) 86 87	11, 17, 34, 83	0
1	B	507/525 (96%)	-0.38	5 (0%) 82 84	11, 18, 36, 77	0
1	C	507/525 (96%)	-0.31	5 (0%) 82 84	13, 21, 39, 75	1 (0%)
1	D	507/525 (96%)	-0.32	3 (0%) 89 90	14, 22, 41, 73	1 (0%)
All	All	2028/2100 (96%)	-0.37	17 (0%) 86 87	11, 20, 38, 83	2 (0%)

All (17) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	39[A]	SER	5.8
1	A	38	THR	4.3
1	C	39[A]	SER	4.2
1	B	560	GLN	3.5
1	D	38[B]	THR	3.2
1	A	83	ASP	2.9
1	C	560	GLN	2.8
1	B	71	ARG	2.4
1	A	39	SER	2.4
1	B	39	SER	2.4
1	D	362	LEU	2.4
1	C	540	LEU	2.3
1	B	187[A]	ASN	2.3
1	C	69	GLU	2.2
1	B	38	THR	2.2
1	A	187	ASN	2.1
1	C	106	GLY	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 carbohydrates 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(Å ²)	Q<0.9
3	EDO	A	609	4/4	0.80	0.25	25,30,35,40	0
3	EDO	D	607	4/4	0.83	0.21	27,33,39,39	0
3	EDO	A	607	4/4	0.87	0.23	34,38,39,41	0
3	EDO	A	608	4/4	0.88	0.20	31,35,42,47	0
3	EDO	B	611	4/4	0.89	0.18	27,33,40,46	0
3	EDO	B	603	4/4	0.90	0.14	33,38,41,42	0
3	EDO	B	608	4/4	0.90	0.17	31,32,32,35	0
3	EDO	C	604	4/4	0.91	0.17	22,39,45,50	0
3	EDO	B	612	4/4	0.91	0.14	19,34,37,40	0
3	EDO	C	603	4/4	0.91	0.14	36,44,45,45	0
3	EDO	D	606	4/4	0.91	0.24	34,35,37,38	0
3	EDO	C	601	4/4	0.92	0.13	30,30,35,38	0
3	EDO	A	606	4/4	0.93	0.22	47,47,48,51	0
3	EDO	A	604	4/4	0.93	0.14	20,24,37,42	0
3	EDO	A	605	4/4	0.94	0.23	29,38,47,52	0
3	EDO	B	604	4/4	0.94	0.19	21,30,38,47	0
3	EDO	D	604	4/4	0.94	0.17	24,33,46,55	0
3	EDO	C	602	4/4	0.94	0.22	25,31,46,53	0
3	EDO	D	601	4/4	0.95	0.23	24,41,43,46	0
3	EDO	A	603	4/4	0.95	0.20	35,36,38,38	0
3	EDO	D	603	4/4	0.95	0.21	30,34,42,52	0
3	EDO	B	606	4/4	0.95	0.13	28,29,33,38	0
3	EDO	D	605	4/4	0.95	0.24	36,39,43,48	0
3	EDO	D	602	4/4	0.96	0.10	32,37,37,40	0
3	EDO	A	602	4/4	0.97	0.10	25,31,34,41	0
3	EDO	B	602	4/4	0.97	0.10	17,25,25,28	0
3	EDO	B	607	4/4	0.97	0.09	23,24,25,27	0
3	EDO	B	610	4/4	0.97	0.19	28,40,44,54	0
3	EDO	B	609	4/4	0.97	0.17	20,31,35,41	0
3	EDO	B	605	4/4	0.98	0.06	14,16,16,18	0
2	K	B	601	1/1	1.00	0.02	17,17,17,17	0
2	K	A	601	1/1	1.00	0.02	18,18,18,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.