



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 05:28 AM GMT

PDB ID : 2QTQ
Title : Crystal structure of a predicted dna-binding transcriptional regulator (saro_1072) from novosphingobium aromaticivorans dsm at 1.85 Å resolution
Authors : Joint Center for Structural Genomics (JCSG)
Deposited on : 2007-08-02
Resolution : 1.85 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/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 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

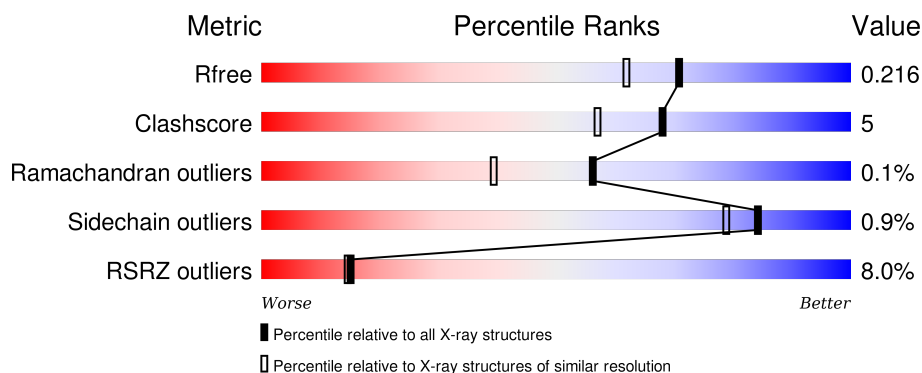
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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}	91344	1745 (1.86-1.86)
Clashscore	102246	1898 (1.86-1.86)
Ramachandran outliers	100387	1875 (1.86-1.86)
Sidechain outliers	100360	1875 (1.86-1.86)
RSRZ outliers	91569	1747 (1.86-1.86)

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	213	<div> <div>4%</div> <div>88%</div> <div>7%</div> <div>• •</div> </div>
1	B	213	<div> <div>5%</div> <div>84%</div> <div>8%</div> <div>• 8%</div> </div>
1	C	213	<div> <div>11%</div> <div>83%</div> <div>9%</div> <div>8%</div> </div>
1	D	213	<div> <div>9%</div> <div>83%</div> <div>10%</div> <div>7%</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	NO3	A	213	-	X	-	-
2	NO3	B	213	-	X	-	-
2	NO3	C	213	-	X	-	X
3	EDO	A	214	-	-	-	X
3	EDO	A	215	-	-	-	X
3	EDO	A	216	-	-	-	X
3	EDO	A	217	-	-	-	X
3	EDO	A	220	-	-	-	X
3	EDO	A	223	-	-	-	X
3	EDO	B	214	-	-	-	X
3	EDO	B	216	-	-	-	X
3	EDO	B	217	-	-	-	X
3	EDO	B	218	-	-	-	X
3	EDO	B	219	-	-	-	X
3	EDO	C	215	-	-	-	X
3	EDO	D	213	-	-	-	X
3	EDO	D	215	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7418 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 Transcriptional regulator, TetR family.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	204	Total	C	N	O	S	Se	0	9	0
			1694	1070	298	319	2	5			
1	B	197	Total	C	N	O	S	Se	0	15	0
			1714	1078	314	315	2	5			
1	C	197	Total	C	N	O	S	Se	0	5	0
			1596	1017	283	288	3	5			
1	D	198	Total	C	N	O	S	Se	0	6	0
			1620	1033	288	291	2	6			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	LEADER SEQUENCE	UNP Q2G9F6
B	0	GLY	-	LEADER SEQUENCE	UNP Q2G9F6
C	0	GLY	-	LEADER SEQUENCE	UNP Q2G9F6
D	0	GLY	-	LEADER SEQUENCE	UNP Q2G9F6

- Molecule 2 is NITRATE ION (three-letter code: NO3) (formula: NO₃).



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

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



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

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

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

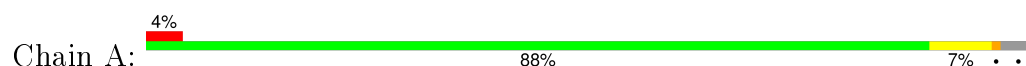
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	205	Total	O	0	4
			209	209		
4	B	209	Total	O	0	3
			212	212		
4	C	145	Total	O	0	2
			147	147		
4	D	113	Total	O	0	5
			118	118		

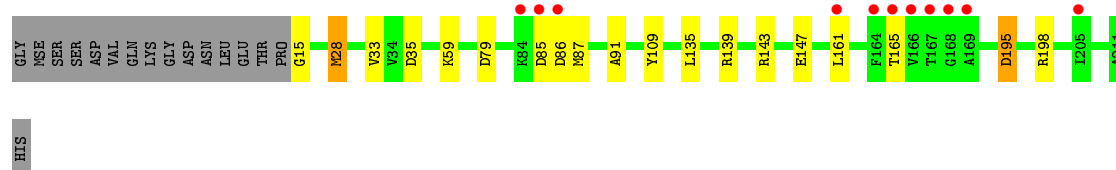
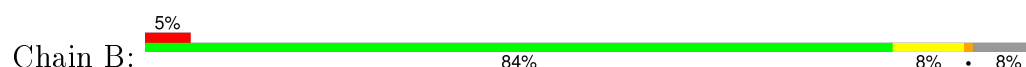
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

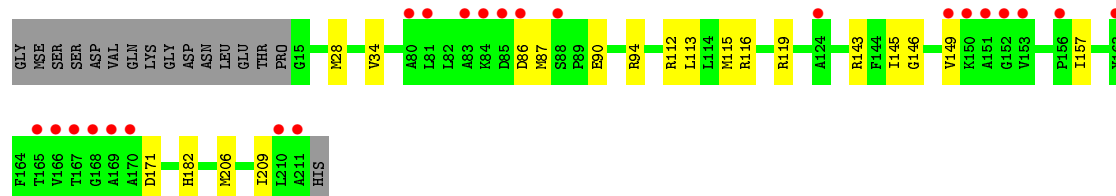
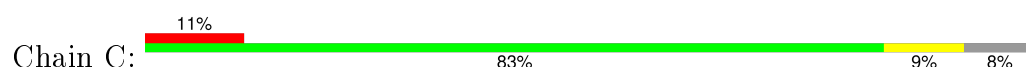
- Molecule 1: Transcriptional regulator, TetR family



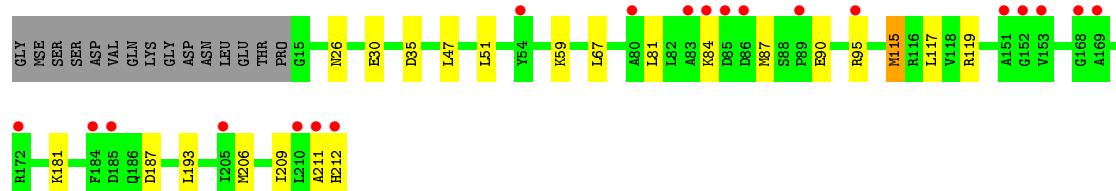
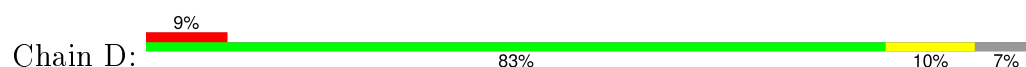
- Molecule 1: Transcriptional regulator, TetR family



- Molecule 1: Transcriptional regulator, TetR family



- Molecule 1: Transcriptional regulator, TetR family



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	66.47Å 98.76Å 164.04Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.50 – 1.85 29.50 – 1.85	Depositor EDS
% Data completeness (in resolution range)	98.0 (29.50-1.85) 98.0 (29.50-1.85)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.96 (at 1.85Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.185 , 0.216 0.188 , 0.216	Depositor DCC
R_{free} test set	4544 reflections (5.26%)	DCC
Wilson B-factor (Å ²)	31.5	Xtriage
Anisotropy	0.524	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 51.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 91002 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	7418	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.96% 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, 0.375 respectively for untwinned datasets, and 0.333, 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, NO3

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	0.63	0/1718	0.70	1/2312 (0.0%)
1	B	0.69	1/1735 (0.1%)	0.73	0/2326
1	C	0.58	1/1618 (0.1%)	0.62	0/2173
1	D	0.50	0/1643	0.62	1/2207 (0.0%)
All	All	0.60	2/6714 (0.0%)	0.67	2/9018 (0.0%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	28	MSE	SE-CE	-9.64	1.38	1.95
1	C	28	MSE	SE-CE	-6.67	1.56	1.95

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	198	ARG	NE-CZ-NH1	5.40	123.00	120.30
1	D	115	MSE	CG-SE-CE	-5.17	87.52	98.90

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	1694	0	1655	13	0
1	B	1714	0	1713	16	0
1	C	1596	0	1593	19	0
1	D	1620	0	1613	15	0
2	A	4	0	0	0	0
2	B	4	0	0	0	0
2	C	4	0	0	0	0
3	A	40	0	60	2	0
3	B	28	0	42	1	0
3	C	12	0	18	2	0
3	D	16	0	24	0	0
4	A	209	0	0	6	0
4	B	212	0	0	3	0
4	C	147	0	0	2	0
4	D	118	0	0	2	0
All	All	7418	0	6718	63	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 5.

The worst 5 of 63 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:87:MSE:HE2	1:B:91:ALA:HB1	1.39	1.00
1:C:34:VAL:O	1:C:34:VAL:HG12	1.74	0.84
1:B:87:MSE:HE2	1:B:91:ALA:CB	2.08	0.83
1:A:172:ARG:HD3	1:B:165:THR:HA	1.66	0.77
1:B:87:MSE:CE	1:B:91:ALA:HB1	2.18	0.71

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	210/213 (99%)	209 (100%)	1 (0%)	0	100	100
1	B	209/213 (98%)	204 (98%)	5 (2%)	0	100	100
1	C	200/213 (94%)	197 (98%)	3 (2%)	0	100	100
1	D	202/213 (95%)	199 (98%)	2 (1%)	1 (0%)	34	17
All	All	821/852 (96%)	809 (98%)	11 (1%)	1 (0%)	56	39

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	84	LYS

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	177/177 (100%)	174 (98%)	3 (2%)	68	54
1	B	182/177 (103%)	180 (99%)	2 (1%)	80	72
1	C	164/177 (93%)	162 (99%)	2 (1%)	78	69
1	D	167/177 (94%)	167 (100%)	0	100	100
All	All	690/708 (98%)	683 (99%)	7 (1%)	84	76

5 of 7 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	79	ASP
1	C	171	ASP
1	B	195	ASP
1	A	9[B]	ASP
1	C	143	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

27 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	NO3	A	213	-	3,3,3	3.46	3 (100%)	3,3,3	0.25	0
3	EDO	A	214	-	3,3,3	0.51	0	2,2,2	0.26	0
3	EDO	A	215	-	3,3,3	0.59	0	2,2,2	0.33	0
3	EDO	A	216	-	3,3,3	0.50	0	2,2,2	0.53	0
3	EDO	A	217	-	3,3,3	0.38	0	2,2,2	0.65	0
3	EDO	A	218	-	3,3,3	0.66	0	2,2,2	0.46	0
3	EDO	A	219	-	3,3,3	0.54	0	2,2,2	0.39	0
3	EDO	A	220	-	3,3,3	0.48	0	2,2,2	0.44	0
3	EDO	A	221	-	3,3,3	0.47	0	2,2,2	0.38	0
3	EDO	A	222	-	3,3,3	0.43	0	2,2,2	0.39	0
3	EDO	A	223	-	3,3,3	0.37	0	2,2,2	0.59	0
2	NO3	B	213	-	3,3,3	3.02	3 (100%)	3,3,3	0.45	0
3	EDO	B	214	-	3,3,3	0.72	0	2,2,2	0.04	0
3	EDO	B	215	-	3,3,3	0.49	0	2,2,2	0.27	0
3	EDO	B	216	-	3,3,3	0.64	0	2,2,2	0.24	0
3	EDO	B	217	-	3,3,3	0.58	0	2,2,2	0.27	0
3	EDO	B	218	-	3,3,3	0.54	0	2,2,2	0.21	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	EDO	B	219	-	3,3,3	0.59	0	2,2,2	0.14	0
3	EDO	B	220	-	3,3,3	0.45	0	2,2,2	0.45	0
2	NO3	C	213	-	3,3,3	3.33	3 (100%)	3,3,3	0.18	0
3	EDO	C	214	-	3,3,3	0.52	0	2,2,2	0.32	0
3	EDO	C	215	-	3,3,3	0.54	0	2,2,2	0.36	0
3	EDO	C	216	-	3,3,3	0.49	0	2,2,2	0.27	0
3	EDO	D	213	-	3,3,3	0.59	0	2,2,2	0.23	0
3	EDO	D	214	-	3,3,3	0.55	0	2,2,2	0.29	0
3	EDO	D	215	-	3,3,3	0.47	0	2,2,2	0.23	0
3	EDO	D	216	-	3,3,3	0.52	0	2,2,2	0.15	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	NO3	A	213	-	-	0/0/0/0	0/0/0/0
3	EDO	A	214	-	-	0/1/1/1	0/0/0/0
3	EDO	A	215	-	-	0/1/1/1	0/0/0/0
3	EDO	A	216	-	-	0/1/1/1	0/0/0/0
3	EDO	A	217	-	-	0/1/1/1	0/0/0/0
3	EDO	A	218	-	-	0/1/1/1	0/0/0/0
3	EDO	A	219	-	-	0/1/1/1	0/0/0/0
3	EDO	A	220	-	-	0/1/1/1	0/0/0/0
3	EDO	A	221	-	-	0/1/1/1	0/0/0/0
3	EDO	A	222	-	-	0/1/1/1	0/0/0/0
3	EDO	A	223	-	-	0/1/1/1	0/0/0/0
2	NO3	B	213	-	-	0/0/0/0	0/0/0/0
3	EDO	B	214	-	-	0/1/1/1	0/0/0/0
3	EDO	B	215	-	-	0/1/1/1	0/0/0/0
3	EDO	B	216	-	-	0/1/1/1	0/0/0/0
3	EDO	B	217	-	-	0/1/1/1	0/0/0/0
3	EDO	B	218	-	-	0/1/1/1	0/0/0/0
3	EDO	B	219	-	-	0/1/1/1	0/0/0/0
3	EDO	B	220	-	-	0/1/1/1	0/0/0/0
2	NO3	C	213	-	-	0/0/0/0	0/0/0/0
3	EDO	C	214	-	-	0/1/1/1	0/0/0/0
3	EDO	C	215	-	-	0/1/1/1	0/0/0/0
3	EDO	C	216	-	-	0/1/1/1	0/0/0/0
3	EDO	D	213	-	-	0/1/1/1	0/0/0/0
3	EDO	D	214	-	-	0/1/1/1	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	EDO	D	215	-	-	0/1/1/1	0/0/0/0
3	EDO	D	216	-	-	0/1/1/1	0/0/0/0

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	213	NO3	O2-N	2.68	1.39	1.25
2	B	213	NO3	O3-N	2.85	1.40	1.25
2	A	213	NO3	O2-N	2.93	1.40	1.25
2	C	213	NO3	O3-N	2.98	1.40	1.25
2	C	213	NO3	O2-N	3.02	1.41	1.25

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	215	EDO	1	0
3	A	217	EDO	1	0
3	B	220	EDO	1	0
3	C	215	EDO	2	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	199/213 (93%)	0.11	8 (4%) 42 39	22, 34, 46, 57	0
1	B	192/213 (90%)	0.19	11 (5%) 27 26	26, 35, 50, 67	0
1	C	192/213 (90%)	0.43	23 (11%) 6 6	30, 38, 49, 55	0
1	D	193/213 (90%)	0.47	20 (10%) 8 8	31, 40, 51, 65	0
All	All	776/852 (91%)	0.30	62 (7%) 15 14	22, 37, 50, 67	0

The worst 5 of 62 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	83	ALA	5.0
1	B	166[A]	VAL	4.9
1	C	152	GLY	4.7
1	D	212	HIS	4.7
1	D	153	VAL	4.6

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	EDO	A	214	4/4	0.73	0.38	18.15	60,64,65,66	0
3	EDO	A	223	4/4	0.76	0.27	10.57	65,67,67,74	0
3	EDO	B	214	4/4	0.87	0.29	8.95	49,52,53,54	0
3	EDO	B	217	4/4	0.62	0.27	8.81	73,73,75,75	0
3	EDO	A	215	4/4	0.78	0.37	8.19	56,62,67,71	0
2	NO3	C	213	4/4	0.87	0.19	6.80	67,68,68,68	0
3	EDO	B	216	4/4	0.76	0.24	5.64	56,68,70,71	0
3	EDO	B	219	4/4	0.66	0.20	4.93	69,69,69,70	0
3	EDO	C	215	4/4	0.92	0.17	3.20	45,46,48,48	0
3	EDO	A	220	4/4	0.82	0.18	3.04	68,70,71,73	0
3	EDO	A	216	4/4	0.85	0.19	2.99	51,56,58,59	0
3	EDO	A	217	4/4	0.87	0.15	2.58	53,58,59,65	0
3	EDO	B	218	4/4	0.84	0.18	2.27	59,63,65,70	0
3	EDO	D	213	4/4	0.79	0.41	2.11	62,65,66,71	0
3	EDO	D	215	4/4	0.81	0.25	2.04	58,61,66,71	0
3	EDO	D	216	4/4	0.89	0.20	1.38	56,67,70,73	0
3	EDO	A	218	4/4	0.79	0.28	1.18	45,57,58,59	0
2	NO3	A	213	4/4	0.83	0.23	0.68	59,63,64,64	0
3	EDO	A	222	4/4	0.96	0.09	-1.21	33,39,44,45	0
3	EDO	D	214	4/4	0.95	0.10	-1.21	49,51,54,55	0
2	NO3	B	213	4/4	0.97	0.12	-1.94	43,44,44,44	0
3	EDO	C	214	4/4	0.86	0.41	-	71,71,72,73	0
3	EDO	C	216	4/4	0.78	0.17	-	64,67,70,73	0
3	EDO	A	219	4/4	0.74	0.20	-	61,63,67,70	0
3	EDO	B	215	4/4	0.88	0.31	-	68,70,73,73	0
3	EDO	B	220	4/4	0.93	0.29	-	63,68,68,73	0
3	EDO	A	221	4/4	0.74	0.18	-	81,81,82,82	0

6.5 Other polymers ⓘ

There are no such residues in this entry.