



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 14, 2017 – 12:25 pm GMT

PDB ID : 4O17
Title : Structural Basis for Resistance to Diverse Classes of NAMPT Inhibitors
Authors : Oh, A.; Coons, M.; Brillantes, B.; Wang, W.
Deposited on : 2013-12-15
Resolution : 1.82 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

<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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
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) : recalc28949

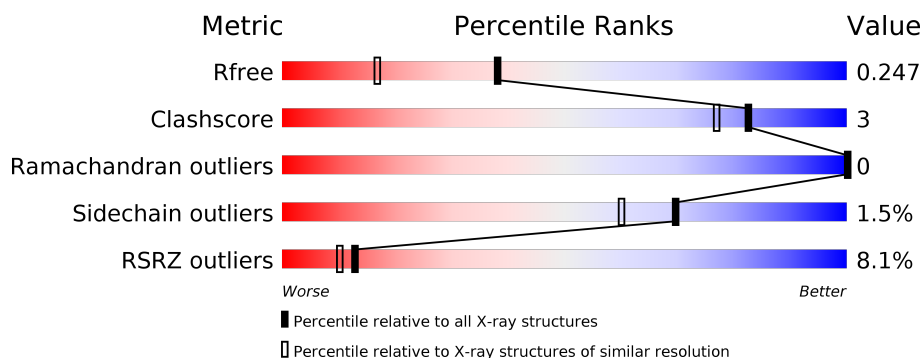
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.82 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}	100719	5868 (1.84-1.80)
Clashscore	112137	6856 (1.84-1.80)
Ramachandran outliers	110173	6780 (1.84-1.80)
Sidechain outliers	110143	6780 (1.84-1.80)
RSRZ outliers	101464	5947 (1.84-1.80)

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	501	<div> <div>8%</div> <div>86%</div> <div>7%</div> <div>7%</div> </div>
1	B	501	<div> <div>7%</div> <div>86%</div> <div>6%</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
3	EDO	A	605	-	-	X	-
3	EDO	A	606	-	-	-	X
3	EDO	A	607	-	-	-	X
3	EDO	B	602	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8258 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 Nicotinamide phosphoribosyltransferase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	467	Total	C	N	O	S	0	3	0
			3773	2428	624	714	7			
1	B	464	Total	C	N	O	S	0	1	0
			3742	2409	616	710	7			

There are 22 discrepancies between the modelled and reference sequences:

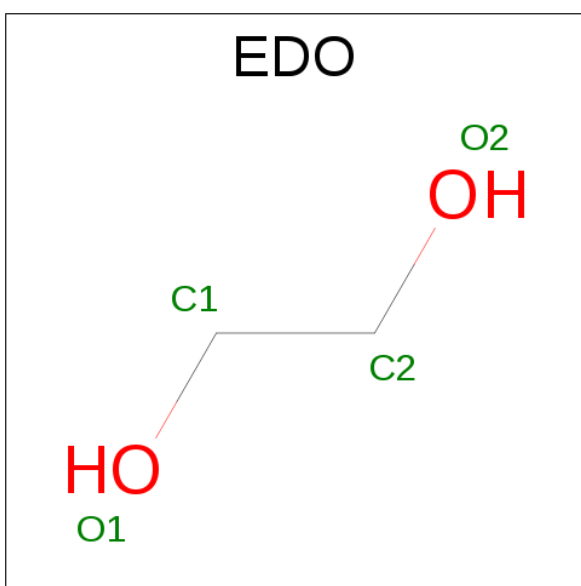
Chain	Residue	Modelled	Actual	Comment	Reference
A	165	TYR	SER	ENGINEERED MUTATION	UNP P43490
A	492	LEU	-	EXPRESSION TAG	UNP P43490
A	493	GLU	-	EXPRESSION TAG	UNP P43490
A	494	HIS	-	EXPRESSION TAG	UNP P43490
A	495	HIS	-	EXPRESSION TAG	UNP P43490
A	496	HIS	-	EXPRESSION TAG	UNP P43490
A	497	HIS	-	EXPRESSION TAG	UNP P43490
A	498	HIS	-	EXPRESSION TAG	UNP P43490
A	499	HIS	-	EXPRESSION TAG	UNP P43490
A	500	HIS	-	EXPRESSION TAG	UNP P43490
A	501	HIS	-	EXPRESSION TAG	UNP P43490
B	165	TYR	SER	ENGINEERED MUTATION	UNP P43490
B	492	LEU	-	EXPRESSION TAG	UNP P43490
B	493	GLU	-	EXPRESSION TAG	UNP P43490
B	494	HIS	-	EXPRESSION TAG	UNP P43490
B	495	HIS	-	EXPRESSION TAG	UNP P43490
B	496	HIS	-	EXPRESSION TAG	UNP P43490
B	497	HIS	-	EXPRESSION TAG	UNP P43490
B	498	HIS	-	EXPRESSION TAG	UNP P43490
B	499	HIS	-	EXPRESSION TAG	UNP P43490
B	500	HIS	-	EXPRESSION TAG	UNP P43490
B	501	HIS	-	EXPRESSION TAG	UNP P43490

- Molecule 2 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



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

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

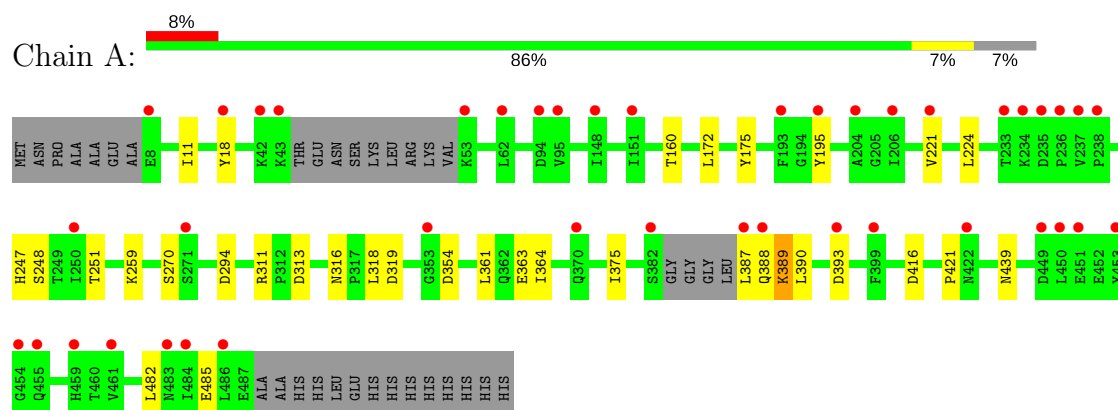
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	371	Total O 371 371	0	0
4	B	330	Total O 330 330	0	0

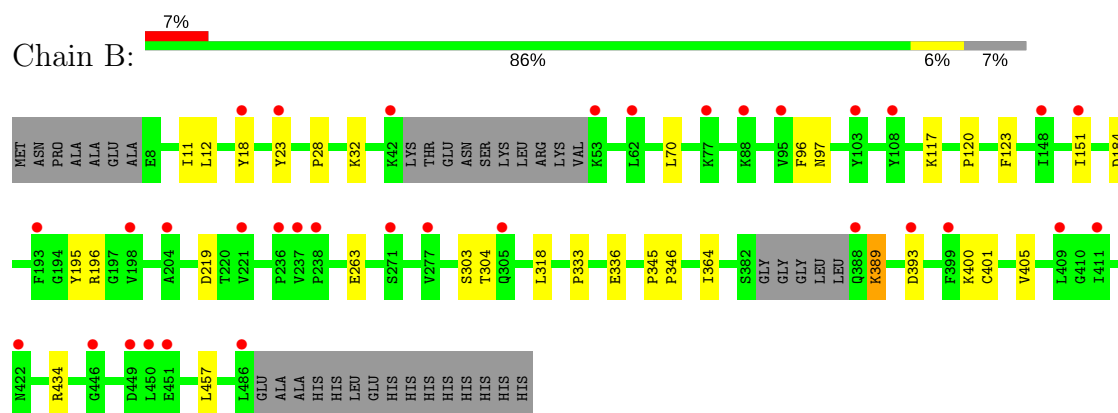
3 Residue-property plots [i](#)

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: Nicotinamide phosphoribosyltransferase



- Molecule 1: Nicotinamide phosphoribosyltransferase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	60.16Å 106.43Å 83.48Å 90.00° 96.64° 90.00°	Depositor
Resolution (Å)	39.74 – 1.82 39.74 – 1.82	Depositor EDS
% Data completeness (in resolution range)	99.5 (39.74-1.82) 99.5 (39.74-1.82)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.81 (at 1.82Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.2_1309)	Depositor
R, R_{free}	0.210 , 0.247 0.210 , 0.247	Depositor DCC
R_{free} test set	4667 reflections (5.02%)	DCC
Wilson B-factor (Å ²)	19.5	Xtriage
Anisotropy	0.585	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 55.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	8258	wwPDB-VP
Average B, all atoms (Å ²)	17.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 15.57% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PO4, 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	0.38	0/3861	0.53	0/5231
1	B	0.38	0/3830	0.52	0/5188
All	All	0.38	0/7691	0.53	0/10419

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	3773	0	3740	25	0
1	B	3742	0	3712	19	0
2	A	5	0	0	0	0
2	B	5	0	0	0	0
3	A	24	0	36	7	0
3	B	8	0	12	3	0
4	A	371	0	0	6	2
4	B	330	0	0	5	2
All	All	8258	0	7500	43	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 (43) 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:388:GLN:HG3	1:A:389:LYS:H	1.46	0.77
1:B:184:ASP:O	4:B:966:HOH:O	2.11	0.68
1:A:416:ASP:OD1	4:A:973:HOH:O	2.12	0.66
1:A:389:LYS:HB3	1:B:389:LYS:HD3	1.78	0.66
1:B:434:ARG:HG2	1:B:457:LEU:HD11	1.79	0.66
1:A:363:GLU:OE2	4:A:818:HOH:O	2.15	0.64
1:A:251:THR:OG1	3:B:603:EDO:H21	1.98	0.63
1:A:311[A]:ARG:HH12	3:A:605:EDO:H21	1.62	0.62
1:B:401:CYS:O	3:B:603:EDO:H22	2.02	0.60
1:B:263:GLU:OE1	4:B:850:HOH:O	2.17	0.58
1:A:311[A]:ARG:HH22	3:A:605:EDO:H21	1.70	0.56
1:B:70:LEU:HD11	1:B:151:ILE:HD11	1.91	0.53
1:A:354:ASP:HA	3:A:604:EDO:H22	1.94	0.50
1:A:311[A]:ARG:NH1	3:A:605:EDO:H21	2.28	0.48
1:B:400:LYS:HD2	3:B:603:EDO:H11	1.94	0.48
1:B:318:LEU:HD13	1:B:364:ILE:HA	1.95	0.48
1:B:336:GLU:OE1	4:B:832:HOH:O	2.20	0.47
1:A:318:LEU:HD13	1:A:364:ILE:HA	1.96	0.47
1:A:482:LEU:HB2	1:A:485:GLU:HG3	1.98	0.46
1:A:247:HIS:CE1	3:A:605:EDO:H22	2.50	0.46
1:B:12:LEU:HD23	1:B:96:PHE:HZ	1.82	0.45
1:B:333:PRO:O	1:B:345:PRO:HD3	2.16	0.45
1:B:304:THR:HG23	1:B:346:PRO:HB2	1.99	0.44
4:A:952:HOH:O	1:B:196:ARG:NH1	2.50	0.44
1:A:221:VAL:HG23	1:A:224:LEU:HD12	1.99	0.44
1:A:421:PRO:HA	4:A:973:HOH:O	2.17	0.44
1:B:23:TYR:CE2	1:B:97:ASN:HB2	2.53	0.43
1:A:316:ASN:HB3	1:A:319:ASP:HB2	2.00	0.43
1:A:387:LEU:O	1:A:388:GLN:HG2	2.19	0.43
1:B:120:PRO:HB2	1:B:123:PHE:CD1	2.53	0.43
1:B:11:ILE:HG23	1:B:12:LEU:HD12	2.01	0.43
1:A:172:LEU:HD21	1:A:361:LEU:HD11	2.01	0.43
1:A:311[A]:ARG:NH2	3:A:605:EDO:H21	2.34	0.42
1:A:175:TYR:HB3	1:A:375:ILE:HG13	2.02	0.41
1:A:388:GLN:HG3	1:A:389:LYS:N	2.25	0.41
1:A:160:THR:HG22	1:A:390:LEU:HD13	2.02	0.41
1:A:313:ASP:OD1	3:A:604:EDO:H12	2.21	0.41
1:A:259:LYS:HD2	1:A:294:ASP:HB3	2.03	0.41
1:B:117:LYS:NZ	4:B:921:HOH:O	2.54	0.41
1:A:270:SER:OG	4:A:906:HOH:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:32:LYS:HB3	1:B:405:VAL:HB	2.02	0.40
1:B:28:PRO:O	4:B:976:HOH:O	2.21	0.40
1:A:439:ASN:HB3	4:A:992:HOH:O	2.20	0.40

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)
4:A:833:HOH:O	4:B:947:HOH:O[1_554]	2.12	0.08
4:A:868:HOH:O	4:B:847:HOH:O[1_554]	2.18	0.02

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	464/501 (93%)	452 (97%)	12 (3%)	0	100	100
1	B	459/501 (92%)	449 (98%)	10 (2%)	0	100	100
All	All	923/1002 (92%)	901 (98%)	22 (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	414/440 (94%)	408 (99%)	6 (1%)	71	63
1	B	412/440 (94%)	406 (98%)	6 (2%)	70	60
All	All	826/880 (94%)	814 (98%)	12 (2%)	70	60

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	11	ILE
1	A	18	TYR
1	A	195	TYR
1	A	248	SER
1	A	389	LYS
1	A	393	ASP
1	B	18	TYR
1	B	195	TYR
1	B	219	ASP
1	B	303	SER
1	B	389	LYS
1	B	393	ASP

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

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](#)

10 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	PO4	A	601	-	4,4,4	0.81	0	6,6,6	0.47	0
3	EDO	A	602	-	3,3,3	0.50	0	2,2,2	0.50	0
3	EDO	A	603	-	3,3,3	0.42	0	2,2,2	0.37	0
3	EDO	A	604	-	3,3,3	0.45	0	2,2,2	0.31	0
3	EDO	A	605	-	3,3,3	0.48	0	2,2,2	0.44	0
3	EDO	A	606	-	3,3,3	0.48	0	2,2,2	0.15	0
3	EDO	A	607	-	3,3,3	0.50	0	2,2,2	0.33	0
2	PO4	B	601	-	4,4,4	0.76	0	6,6,6	0.47	0
3	EDO	B	602	-	3,3,3	0.50	0	2,2,2	0.20	0
3	EDO	B	603	-	3,3,3	0.46	0	2,2,2	0.42	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	PO4	A	601	-	-	0/0/0/0	0/0/0/0
3	EDO	A	602	-	-	0/1/1/1	0/0/0/0
3	EDO	A	603	-	-	0/1/1/1	0/0/0/0
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
2	PO4	B	601	-	-	0/0/0/0	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

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.

3 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	604	EDO	2	0
3	A	605	EDO	5	0
3	B	603	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

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	467/501 (93%)	0.70	42 (8%) 10 8	6, 14, 31, 77	0
1	B	464/501 (92%)	0.67	33 (7%) 17 13	5, 14, 31, 70	0
All	All	931/1002 (92%)	0.68	75 (8%) 13 10	5, 14, 31, 77	0

All (75) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	236	PRO	7.5
1	B	409	LEU	6.1
1	A	387	LEU	5.9
1	A	486	LEU	5.6
1	B	236	PRO	5.5
1	A	237	VAL	4.9
1	B	237	VAL	4.6
1	A	238	PRO	4.4
1	B	450	LEU	4.1
1	A	43	LYS	4.0
1	B	486	LEU	4.0
1	B	42	LYS	3.7
1	A	53	LYS	3.6
1	A	235	ASP	3.6
1	B	451	GLU	3.5
1	A	42	LYS	3.4
1	A	204	ALA	3.3
1	B	221	VAL	3.2
1	B	88	LYS	3.2
1	B	446	GLY	3.2
1	A	455	GLN	3.2
1	B	388	GLN	3.1
1	A	234	LYS	3.1
1	A	233	THR	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	399	PHE	3.1
1	A	193	PHE	3.0
1	B	18	TYR	3.0
1	B	151	ILE	3.0
1	A	148	ILE	3.0
1	A	388	GLN	3.0
1	A	151[A]	ILE	2.9
1	A	18	TYR	2.9
1	B	62	LEU	2.9
1	A	461	VAL	2.8
1	B	193	PHE	2.8
1	B	53	LYS	2.8
1	A	484	ILE	2.8
1	A	8	GLU	2.8
1	A	449	ASP	2.7
1	B	204	ALA	2.6
1	A	451	GLU	2.6
1	B	23	TYR	2.6
1	B	305	GLN	2.6
1	B	103	TYR	2.6
1	B	271	SER	2.5
1	B	238	PRO	2.4
1	A	382	SER	2.4
1	A	370	GLN	2.3
1	A	393	ASP	2.3
1	A	206	ILE	2.3
1	B	77	LYS	2.3
1	A	195	TYR	2.3
1	A	422	ASN	2.3
1	A	453	TYR	2.3
1	A	95	VAL	2.3
1	B	198	VAL	2.3
1	A	62	LEU	2.3
1	B	95	VAL	2.2
1	B	393	ASP	2.2
1	B	148	ILE	2.2
1	A	450	LEU	2.2
1	A	271	SER	2.2
1	A	94	ASP	2.2
1	A	221	VAL	2.2
1	A	353	GLY	2.1
1	B	449	ASP	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	399	PHE	2.1
1	A	250	ILE	2.1
1	A	483	ASN	2.1
1	B	277	VAL	2.1
1	B	422	ASN	2.1
1	A	454	GLY	2.1
1	B	108	TYR	2.0
1	B	411	ILE	2.0
1	A	459	HIS	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 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	606	4/4	0.86	0.34	5.10	22,32,32,36	0
3	EDO	B	602	4/4	0.80	0.32	2.52	23,31,35,38	0
3	EDO	A	607	4/4	0.75	0.26	2.05	21,21,22,27	0
2	PO4	A	601	5/5	0.82	0.22	1.99	41,45,47,48	0
3	EDO	A	602	4/4	0.86	0.19	1.60	10,11,16,16	0
3	EDO	A	603	4/4	0.84	0.27	1.14	18,22,25,30	0
2	PO4	B	601	5/5	0.82	0.18	0.73	37,38,44,46	0
3	EDO	A	605	4/4	0.73	0.22	0.55	18,21,25,28	0
3	EDO	B	603	4/4	0.89	0.17	0.48	7,13,15,24	0
3	EDO	A	604	4/4	0.80	0.21	0.38	20,22,27,31	0

6.5 Other polymers [i](#)

There are no such residues in this entry.