



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 31, 2017 – 04:03 AM EDT

PDB ID : 3RRC
Title : Crystal Structure of Region II from Plasmodium vivax Duffy Binding Protein
Authors : Tolia, N.H.
Deposited on : unknown
Resolution : 1.95 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 : rb-20030345
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) : rb-20030345

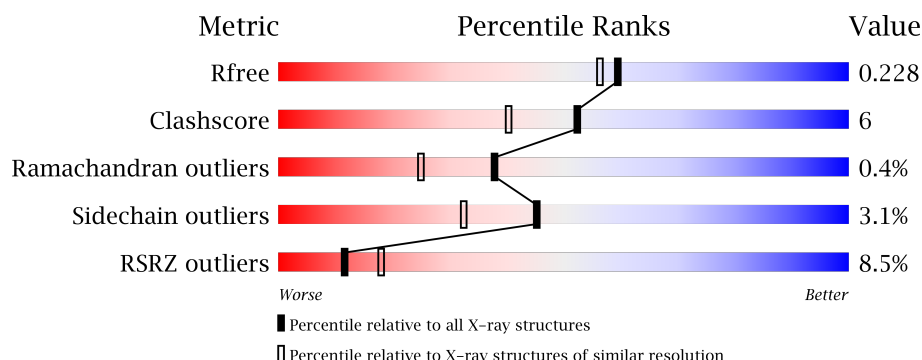
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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	2004 (1.96-1.96)
Clashscore	112137	2136 (1.96-1.96)
Ramachandran outliers	110173	2117 (1.96-1.96)
Sidechain outliers	110143	2117 (1.96-1.96)
RSRZ outliers	101464	2018 (1.96-1.96)

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	317	<div> <div>9%</div> <div> <div></div> <div>75%</div> <div>11%</div> <div>13%</div> </div> </div>
1	B	317	<div> <div>5%</div> <div> <div></div> <div>75%</div> <div>12%</div> <div>12%</div> </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	EDO	A	13	-	-	-	X
2	EDO	A	5	-	-	-	X
2	EDO	B	11	-	-	-	X

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 9711 atoms, of which 4660 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.

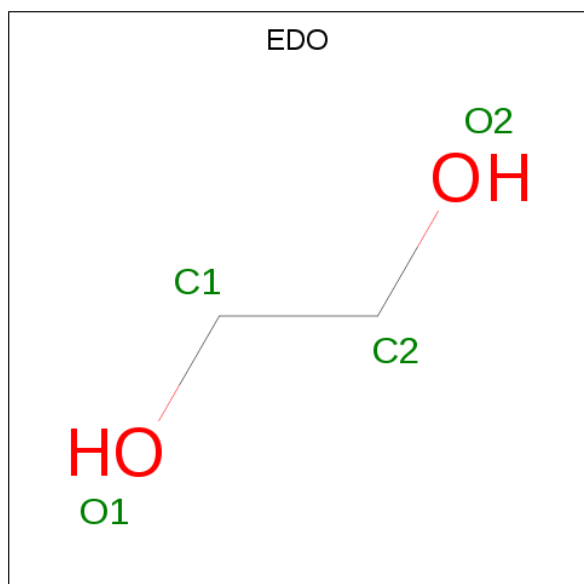
- Molecule 1 is a protein called Duffy receptor.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	276	Total	C	H	N	O	S	0	1	0
			4584	1453	2284	404	425	18			
1	B	279	Total	C	H	N	O	S	0	0	0
			4633	1471	2310	409	425	18			

There are 4 discrepancies between the modelled and reference sequences:

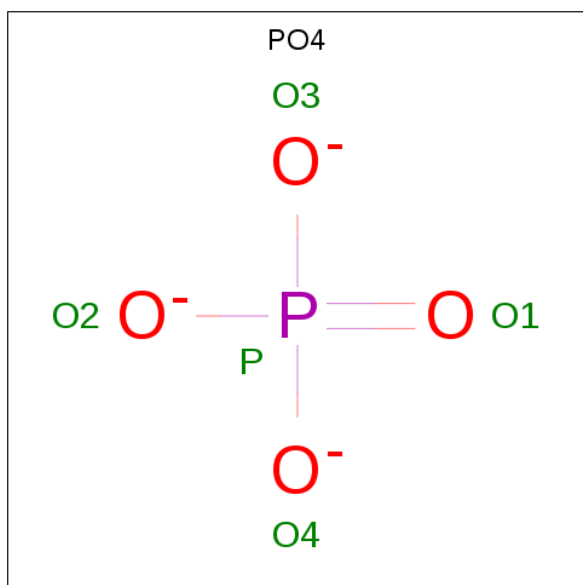
Chain	Residue	Modelled	Actual	Comment	Reference
A	209	MET	-	EXPRESSION TAG	UNP P22290
A	210	GLY	-	EXPRESSION TAG	UNP P22290
B	209	MET	-	EXPRESSION TAG	UNP P22290
B	210	GLY	-	EXPRESSION TAG	UNP P22290

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



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total C H O 10 2 6 2	0	0
2	A	1	Total C H O 10 2 6 2	0	0
2	A	1	Total C H O 10 2 6 2	0	0
2	A	1	Total C H O 10 2 6 2	0	0
2	A	1	Total C H O 10 2 6 2	0	0
2	A	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0
2	B	1	Total C H O 10 2 6 2	0	0

- Molecule 3 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).



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

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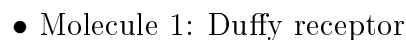
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	P	0	0
			5	4	1		
3	B	1	Total	O	P	0	0
			5	4	1		
3	B	1	Total	O	P	0	0
			5	4	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	171	Total	O	0	0
			171	171		
4	B	193	Total	O	0	0
			193	193		

- Molecule 1: Duffy receptor



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	59.50 Å 66.97 Å 91.83 Å 90.00° 108.06° 90.00°	Depositor
Resolution (Å)	19.70 – 1.95 19.74 – 1.95	Depositor EDS
% Data completeness (in resolution range)	99.5 (19.70-1.95) 99.5 (19.74-1.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.12 (at 1.94 Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.7_650)	Depositor
R, R_{free}	0.195 , 0.241 0.187 , 0.228	Depositor DCC
R_{free} test set	2555 reflections (5.12%)	DCC
Wilson B-factor (Å ²)	25.2	Xtriage
Anisotropy	0.389	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 61.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.000 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	9711	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 30.74 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 1.2428e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: 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	0.45	0/2345	0.54	3/3152 (0.1%)
1	B	0.48	0/2367	0.54	0/3181
All	All	0.47	0/4712	0.54	3/6333 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	346	ARG	NE-CZ-NH2	-5.18	117.71	120.30
1	A	221	ARG	NE-CZ-NH1	5.07	122.83	120.30
1	A	221	ARG	NE-CZ-NH2	-5.00	117.80	120.30

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	2300	2284	2284	32	0
1	B	2323	2310	2310	33	0
2	A	24	36	36	0	0
2	B	20	30	30	0	0
3	A	10	0	0	0	0
3	B	10	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	171	0	0	1	0
4	B	193	0	0	1	0
All	All	5051	4660	4660	59	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 6.

All (59) 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:295:TYR:HH	1:A:377:CYS:N	1.90	0.69
1:B:468:THR:O	1:B:468:THR:CG2	2.42	0.68
1:A:358:TRP:CZ2	1:A:362:MET:HG3	2.33	0.64
1:A:277:ILE:HD12	1:B:274:ARG:HD2	1.82	0.60
1:A:358:TRP:CH2	1:A:362:MET:HG3	2.36	0.60
1:B:271:TYR:CE2	1:B:275:LYS:HD2	2.38	0.59
1:B:271:TYR:CZ	1:B:275:LYS:HD2	2.39	0.57
1:A:314:ILE:O	1:A:346:ARG:HD2	2.05	0.57
1:A:266:THR:N	1:B:367:LYS:CE	2.68	0.56
1:B:321:GLY:O	1:B:326:LYS:HD3	2.06	0.56
1:A:271:TYR:CZ	1:A:275:LYS:HE2	2.42	0.55
1:A:386:GLU:HG2	1:A:390:TYR:HB2	1.89	0.55
1:A:266:THR:N	1:B:367:LYS:HD2	2.21	0.55
1:B:398:ARG:HD2	1:B:481:GLU:OE2	2.06	0.54
1:B:468:THR:O	1:B:468:THR:HG22	2.08	0.54
1:A:277:ILE:CD1	1:B:274:ARG:HD2	2.38	0.54
1:B:249:GLU:HB3	1:B:275:LYS:HB3	1.88	0.53
1:A:314:ILE:O	1:A:346:ARG:CD	2.57	0.53
1:B:213:VAL:HG22	1:B:324:TYR:CE1	2.44	0.53
1:A:429:VAL:HG12	1:A:431:PRO:HD2	1.91	0.51
1:B:298:ASP:OD1	1:B:398:ARG:NH2	2.43	0.51
1:B:428:LYS:O	1:B:430:PRO:HD3	2.10	0.51
1:A:358:TRP:CE3	1:A:379:LEU:HD12	2.45	0.51
1:B:461:LYS:O	1:B:464:GLU:HG3	2.11	0.50
1:A:266:THR:N	1:B:367:LYS:HE3	2.26	0.50
1:B:473:THR:HB	1:B:474:PRO:HD2	1.94	0.49
1:B:368:ARG:HD3	1:B:368:ARG:N	2.27	0.49
1:B:253:LEU:HD21	1:B:335:ILE:CD1	2.42	0.49
1:A:266:THR:N	1:B:367:LYS:CD	2.76	0.48
1:B:429:VAL:HG12	1:B:431:PRO:HD2	1.94	0.48
1:A:266:THR:C	1:A:268:ARG:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:ARG:HD2	1:A:240:ASP:OD2	2.14	0.48
1:B:253:LEU:HD21	1:B:335:ILE:HD11	1.94	0.48
1:B:274:ARG:NH1	4:B:115:HOH:O	2.46	0.48
1:A:464:GLU:HG3	1:A:466:VAL:HG23	1.96	0.46
1:A:274:ARG:HH11	1:A:274:ARG:HG3	1.79	0.46
1:A:224:ARG:CG	1:A:403:GLU:OE2	2.63	0.46
1:A:379:LEU:HD23	1:A:379:LEU:C	2.36	0.45
1:A:401:VAL:CG1	1:A:482:LEU:HD13	2.47	0.45
1:A:378:LYS:HB2	1:A:381:VAL:HB	1.99	0.44
1:B:228:TRP:CZ3	1:B:239:PRO:HD3	2.52	0.44
1:A:401:VAL:HG11	1:A:482:LEU:HD13	2.00	0.43
1:B:411:LEU:HD11	1:B:505:CYS:SG	2.58	0.43
1:B:394:ARG:O	1:B:398:ARG:HG3	2.18	0.42
1:A:364:SER:HB3	4:A:560:HOH:O	2.19	0.42
1:B:468:THR:O	1:B:468:THR:HG23	2.19	0.42
1:A:295:TYR:CE1	1:A:365:VAL:HG11	2.54	0.42
1:A:249:GLU:HB3	1:A:275:LYS:HD2	2.01	0.42
1:B:407:GLU:HG3	1:B:442:TRP:CD2	2.55	0.42
1:B:253:LEU:HD23	1:B:331:ASN:HB3	2.02	0.41
1:A:429:VAL:CG1	1:A:431:PRO:HD2	2.50	0.41
1:B:430:PRO:HB2	1:B:431:PRO:HD3	2.02	0.41
1:B:301:LYS:CD	1:B:398:ARG:NE	2.84	0.41
1:B:216:ASN:HB2	1:B:244:GLN:O	2.20	0.41
1:A:340:GLU:HG3	1:A:341:LYS:HG3	2.02	0.40
1:A:345:ARG:HD3	1:A:345:ARG:HA	1.97	0.40
1:A:295:TYR:CD1	1:A:365:VAL:HG11	2.57	0.40
1:A:464:GLU:O	1:A:465:LYS:C	2.60	0.40
1:B:249:GLU:O	1:B:275:LYS:HE3	2.21	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	271/317 (86%)	262 (97%)	8 (3%)	1 (0%)	38	25
1	B	273/317 (86%)	264 (97%)	8 (3%)	1 (0%)	38	25
All	All	544/634 (86%)	526 (97%)	16 (3%)	2 (0%)	38	25

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	339	ASP
1	A	267	PHE

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	254/292 (87%)	248 (98%)	6 (2%)	54	44
1	B	255/292 (87%)	245 (96%)	10 (4%)	37	22
All	All	509/584 (87%)	493 (97%)	16 (3%)	45	32

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	214	MET
1	A	215	LYS
1	A	223	ARG
1	A	224	ARG
1	A	274	ARG
1	A	320	GLU
1	B	211	ASN
1	B	213	VAL
1	B	320	GLU
1	B	330	ASN
1	B	364	SER
1	B	368	ARG
1	B	374	ILE
1	B	384	ASN

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Mol	Chain	Res	Type
1	B	464	GLU
1	B	468	THR

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	218	ASN
1	B	344	GLN

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](#)

15 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	$\# Z > 2$
3	PO4	A	1	-	4,4,4	0.71	0	6,6,6	0.47	0
2	EDO	A	13	-	3,3,3	0.49	0	2,2,2	0.33	0
2	EDO	A	2	-	3,3,3	0.50	0	2,2,2	0.22	0
2	EDO	A	3	-	3,3,3	0.44	0	2,2,2	0.22	0
2	EDO	A	5	-	3,3,3	0.45	0	2,2,2	0.45	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	PO4	A	526	-	4,4,4	0.76	0	6,6,6	0.44	0
2	EDO	A	6	-	3,3,3	0.47	0	2,2,2	0.70	0
2	EDO	A	7	-	3,3,3	0.47	0	2,2,2	0.27	0
2	EDO	B	1	-	3,3,3	0.51	0	2,2,2	0.45	0
2	EDO	B	11	-	3,3,3	0.49	0	2,2,2	0.25	0
2	EDO	B	12	-	3,3,3	0.43	0	2,2,2	0.68	0
3	PO4	B	3	-	4,4,4	0.88	0	6,6,6	0.61	0
2	EDO	B	4	-	3,3,3	0.43	0	2,2,2	0.30	0
3	PO4	B	526	-	4,4,4	0.81	0	6,6,6	0.36	0
2	EDO	B	9	-	3,3,3	0.48	0	2,2,2	0.28	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	PO4	A	1	-	-	0/0/0/0	0/0/0/0
2	EDO	A	13	-	-	0/1/1/1	0/0/0/0
2	EDO	A	2	-	-	0/1/1/1	0/0/0/0
2	EDO	A	3	-	-	0/1/1/1	0/0/0/0
2	EDO	A	5	-	-	0/1/1/1	0/0/0/0
3	PO4	A	526	-	-	0/0/0/0	0/0/0/0
2	EDO	A	6	-	-	0/1/1/1	0/0/0/0
2	EDO	A	7	-	-	0/1/1/1	0/0/0/0
2	EDO	B	1	-	-	0/1/1/1	0/0/0/0
2	EDO	B	11	-	-	0/1/1/1	0/0/0/0
2	EDO	B	12	-	-	0/1/1/1	0/0/0/0
3	PO4	B	3	-	-	0/0/0/0	0/0/0/0
2	EDO	B	4	-	-	0/1/1/1	0/0/0/0
3	PO4	B	526	-	-	0/0/0/0	0/0/0/0
2	EDO	B	9	-	-	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.

No monomer is involved in short contacts.

5.7 Other polymers

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 ⓘ

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	276/317 (87%)	0.42	30 (10%) 6 10	13, 35, 98, 188	0
1	B	279/317 (88%)	0.15	17 (6%) 22 31	13, 29, 70, 101	0
All	All	555/634 (87%)	0.28	47 (8%) 11 18	13, 33, 87, 188	0

All (47) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	379	LEU	7.2
1	A	363	TYR	6.2
1	B	508	SER	5.6
1	B	271	TYR	5.4
1	A	464	GLU	4.5
1	A	380	ASN	4.3
1	A	345	ARG	4.2
1	A	465	LYS	4.2
1	A	466	VAL	4.2
1	B	370	LYS	3.8
1	B	422	THR	3.8
1	A	383	VAL	3.7
1	A	278	TYR	3.6
1	B	468	THR	3.6
1	B	219	TYR	3.5
1	B	421	TYR	3.4
1	A	341	LYS	3.4
1	B	369	LEU	3.4
1	A	377	CYS	3.3
1	A	508	SER	3.2
1	A	467	GLN	3.2
1	B	340	GLU	3.0
1	A	381	VAL	3.0
1	B	341	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	382	ALA	2.8
1	A	340	GLU	2.8
1	B	463	ALA	2.7
1	A	396	TRP	2.7
1	B	464	GLU	2.6
1	A	219	TYR	2.5
1	A	213	VAL	2.4
1	B	507	CYS	2.3
1	A	463	ALA	2.3
1	B	368	ARG	2.3
1	A	358	TRP	2.3
1	A	222	LYS	2.2
1	A	365	VAL	2.2
1	A	344	GLN	2.2
1	A	421	TYR	2.2
1	A	266	THR	2.2
1	A	484	GLU	2.2
1	A	507	CYS	2.1
1	B	210	GLY	2.1
1	B	471	ILE	2.1
1	A	267	PHE	2.1
1	B	483	ASP	2.0
1	A	218	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 [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(\AA^2)	Q<0.9
2	EDO	A	5	4/4	0.91	0.18	3.49	39,48,54,58	0
2	EDO	B	11	4/4	0.89	0.21	3.04	39,52,59,64	0
2	EDO	A	13	4/4	0.84	0.29	2.40	57,68,75,76	0
2	EDO	B	1	4/4	0.95	0.13	1.03	26,32,63,75	0
2	EDO	A	3	4/4	0.97	0.14	0.75	28,41,49,49	0
2	EDO	A	6	4/4	0.96	0.11	0.69	24,32,42,42	0
2	EDO	B	12	4/4	0.91	0.15	0.62	41,49,59,59	0
2	EDO	B	9	4/4	0.90	0.10	0.16	37,44,53,53	0
3	PO4	B	526	5/5	0.96	0.15	-0.17	76,77,82,84	0
2	EDO	A	7	4/4	0.90	0.12	-0.31	38,56,65,73	0
2	EDO	A	2	4/4	0.97	0.08	-0.45	18,26,32,37	0
2	EDO	B	4	4/4	0.96	0.08	-0.80	27,35,42,42	0
3	PO4	A	1	5/5	0.92	0.11	-0.96	92,95,98,98	0
3	PO4	B	3	5/5	0.98	0.09	-1.26	32,38,48,52	0
3	PO4	A	526	5/5	0.90	0.18	-	81,86,93,96	0

6.5 Other polymers [i](#)

There are no such residues in this entry.