



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 4CDJ
Title : Structure of ZNRF3 ectodomain
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Deposited on : 2013-11-01
Resolution : 1.50 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	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

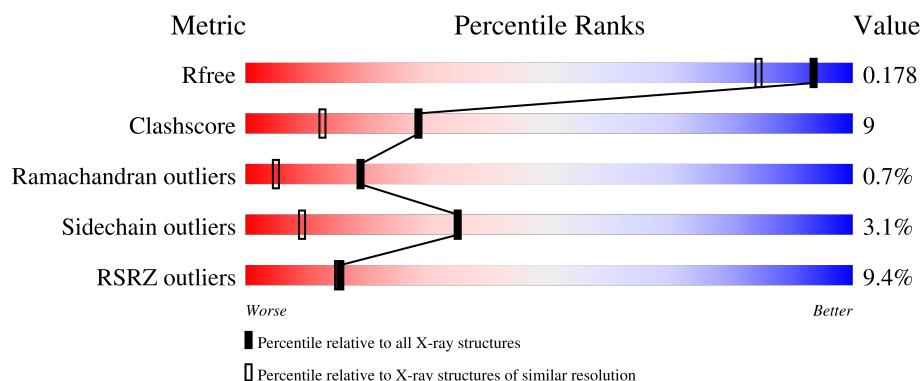
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.50 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	3717 (1.50-1.50)
Clashscore	180529	4048 (1.50-1.50)
Ramachandran outliers	177936	3970 (1.50-1.50)
Sidechain outliers	177891	3967 (1.50-1.50)
RSRZ outliers	164620	3718 (1.50-1.50)

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	164	<div> <div>8%</div> <div> <div></div> <div>80%</div> <div>11%</div> <div>• 7%</div> </div> </div>
1	B	164	<div> <div>10%</div> <div> <div></div> <div>82%</div> <div>9%</div> <div>• 6%</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	1209	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5184 atoms, of which 2434 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 E3 UBIQUITIN-PROTEIN LIGASE ZNR3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	153	Total	C	H	N	O	S	0	5	0
			2390	760	1184	210	230	6			
1	B	154	Total	C	H	N	O	S	0	7	0
			2433	769	1212	213	233	6			

There are 22 discrepancies between the modelled and reference sequences:

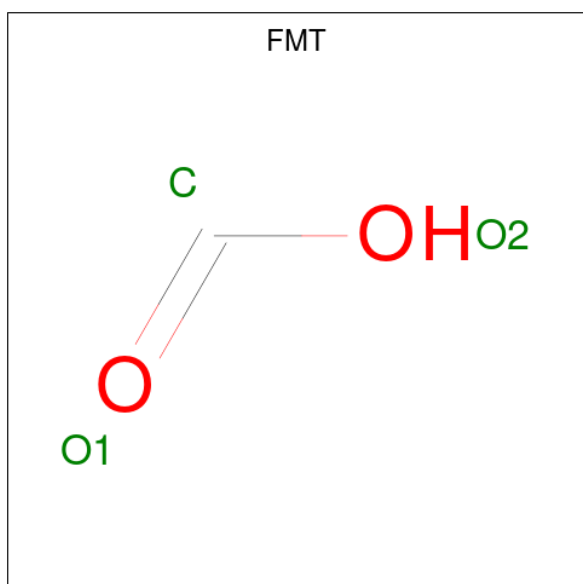
Chain	Residue	Modelled	Actual	Comment	Reference
A	54	GLY	-	expression tag	UNP Q5SSZ7
A	55	SER	-	expression tag	UNP Q5SSZ7
A	209	ALA	-	expression tag	UNP Q5SSZ7
A	210	ALA	-	expression tag	UNP Q5SSZ7
A	211	ALA	-	expression tag	UNP Q5SSZ7
A	212	HIS	-	expression tag	UNP Q5SSZ7
A	213	HIS	-	expression tag	UNP Q5SSZ7
A	214	HIS	-	expression tag	UNP Q5SSZ7
A	215	HIS	-	expression tag	UNP Q5SSZ7
A	216	HIS	-	expression tag	UNP Q5SSZ7
A	217	HIS	-	expression tag	UNP Q5SSZ7
B	54	GLY	-	expression tag	UNP Q5SSZ7
B	55	SER	-	expression tag	UNP Q5SSZ7
B	209	ALA	-	expression tag	UNP Q5SSZ7
B	210	ALA	-	expression tag	UNP Q5SSZ7
B	211	ALA	-	expression tag	UNP Q5SSZ7
B	212	HIS	-	expression tag	UNP Q5SSZ7
B	213	HIS	-	expression tag	UNP Q5SSZ7
B	214	HIS	-	expression tag	UNP Q5SSZ7
B	215	HIS	-	expression tag	UNP Q5SSZ7
B	216	HIS	-	expression tag	UNP Q5SSZ7
B	217	HIS	-	expression tag	UNP Q5SSZ7

- 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	0	0
			10	2	6	2		
2	A	1	Total	C	H	O	0	1
			20	4	12	4		
2	A	1	Total	C	H	O	0	0
			10	2	6	2		
2	B	1	Total	C	H	O	0	0
			10	2	6	2		
2	B	1	Total	C	H	O	0	0
			10	2	6	2		

- Molecule 3 is FORMIC ACID (three-letter code: FMT) (formula: CH_2O_2).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			5	1	2	2		


- Molecule 4 is water.

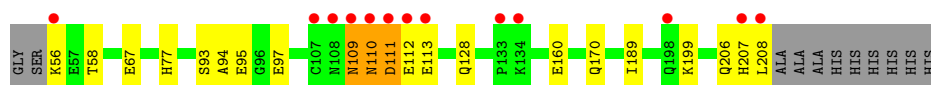
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	170	Total	O	0	0
			170	170		
4	B	126	Total	O	0	0
			126	126		

3 Residue-property plots [i](#)


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

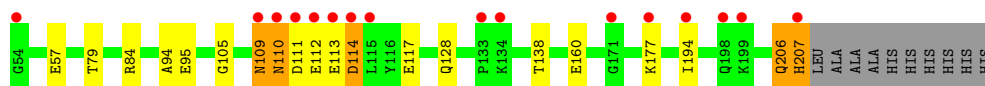
• Molecule 1: E3 UBIQUITIN-PROTEIN LIGASE ZNRF3

Chain A: 



• Molecule 1: E3 UBIQUITIN-PROTEIN LIGASE ZNRF3

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	35.69Å 73.50Å 58.57Å 90.00° 97.49° 90.00°	Depositor
Resolution (Å)	45.57 – 1.50 45.57 – 1.50	Depositor EDS
% Data completeness (in resolution range)	96.2 (45.57-1.50) 96.3 (45.57-1.50)	Depositor EDS
R_{merge}	0.02	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.83 (at 1.50Å)	Xtriage
Refinement program	PHENIX (PHENIX.REFINE)	Depositor
R, R_{free}	0.162 , 0.177 0.161 , 0.178	Depositor DCC
R_{free} test set	2336 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	17.7	Xtriage
Anisotropy	0.781	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 43.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5184	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.49% 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: EDO, FMT

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	0.83	0/1241	0.86	0/1678
1	B	0.80	0/1262	0.89	0/1705
All	All	0.82	0/2503	0.88	0/3383

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	206	GLN	Peptide

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	1206	1184	1226	24	0
1	B	1221	1212	1245	20	1
2	A	16	24	22	5	1
2	B	8	12	12	0	2
3	A	3	2	1	0	0
4	A	170	0	0	5	3
4	B	126	0	0	2	2
All	All	2750	2434	2506	43	5

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 9.

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:110:ASN:HA	1:A:111:ASP:HB2	1.27	1.15
1:A:128:GLN:NE2	4:A:2105:HOH:O	1.84	1.07
1:A:110:ASN:HA	1:A:111:ASP:CB	1.85	1.05
1:A:128:GLN:NE2	1:A:160:GLU:OE1	1.91	1.04
1:A:110:ASN:CA	1:A:111:ASP:HB2	1.94	0.96
1:B:110:ASN:O	1:B:110:ASN:ND2	2.08	0.87
1:A:111:ASP:HA	1:A:113:GLU:HG3	1.61	0.82
1:A:170:GLN:O	4:A:2045:HOH:O	2.07	0.72
1:B:57:GLU:OE1	1:B:84[B]:ARG:NH1	2.30	0.65
1:A:170:GLN:C	4:A:2045:HOH:O	2.37	0.63
1:B:112:GLU:N	1:B:113:GLU:HA	2.13	0.62
1:B:128:GLN:NE2	1:B:160:GLU:OE1	2.33	0.61
1:B:79:THR:HG21	1:B:194[B]:ILE:HD11	1.83	0.61
1:B:105:GLY:HA2	1:B:111:ASP:HB3	1.83	0.61
1:A:110:ASN:N	1:A:111:ASP:HB2	2.19	0.57
1:B:112:GLU:N	1:B:112:GLU:OE1	2.37	0.57
1:A:112:GLU:OE1	1:A:112:GLU:N	2.38	0.56
1:A:109:ASN:C	1:A:111:ASP:HB2	2.27	0.54
1:B:112:GLU:N	1:B:113:GLU:CA	2.72	0.52
1:A:109:ASN:O	1:A:111:ASP:HB2	2.10	0.52
1:A:56:LYS:HB3	1:A:58:THR:H	1.76	0.51
1:A:95:GLU:HB3	1:B:95:GLU:HB3	1.93	0.50
1:A:207:HIS:O	1:A:208:LEU:CB	2.60	0.50
2:A:1209:EDO:H11	1:B:94:ALA:CA	2.41	0.50
1:B:110:ASN:O	1:B:112:GLU:HA	2.12	0.49
1:B:112:GLU:H	1:B:114:ASP:N	2.10	0.49
1:A:110:ASN:HA	1:A:111:ASP:HB3	1.87	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A:1209:EDO:H11	1:B:94:ALA:N	2.27	0.49
1:A:199:LYS:O	4:A:2154:HOH:O	2.20	0.48
1:A:94:ALA:N	2:A:1209:EDO:H22	2.30	0.47
1:A:207:HIS:O	1:A:208:LEU:HB2	2.15	0.47
1:A:97:GLU:HG3	4:A:2054:HOH:O	2.17	0.45
1:A:67:GLU:OE1	1:A:77:HIS:HE1	2.00	0.45
1:B:79:THR:CG2	1:B:194[B]:ILE:HD11	2.47	0.44
1:B:79:THR:CB	1:B:194[B]:ILE:HD11	2.47	0.44
1:B:111:ASP:O	4:B:2061:HOH:O	2.21	0.44
1:A:110:ASN:N	1:A:110:ASN:OD1	2.51	0.43
1:B:111:ASP:HA	1:B:112:GLU:HA	1.70	0.43
1:B:117[A]:GLU:CD	4:B:2070:HOH:O	2.57	0.42
1:B:207:HIS:ND1	1:B:207:HIS:C	2.73	0.42
1:A:93:SER:C	2:A:1209:EDO:H22	2.40	0.41
1:A:189:ILE:HG22	2:A:1212:EDO:H12	2.01	0.41
1:B:109:ASN:HA	1:B:110:ASN:HA	1.85	0.40

All (5) 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)
2:B:1209:EDO:O2	4:A:2148:HOH:O[2_454]	1.47	0.73
1:B:138:THR:H	2:A:1212:EDO:H21[2_454]	1.29	0.31
4:B:2021:HOH:O	4:B:2085:HOH:O[2_445]	2.10	0.10
4:A:2080:HOH:O	4:B:2076:HOH:O[2_445]	2.11	0.09
2:B:1209:EDO:C2	4:A:2148:HOH:O[2_454]	2.14	0.06

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	156/164 (95%)	152 (97%)	2 (1%)	2 (1%)	10 1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	159/164 (97%)	157 (99%)	2 (1%)	0	100	100
All	All	315/328 (96%)	309 (98%)	4 (1%)	2 (1%)	19	6

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	109	ASN
1	A	111	ASP

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	133/135 (98%)	130 (98%)	3 (2%)	45	17
1	B	135/135 (100%)	128 (95%)	7 (5%)	19	3
All	All	268/270 (99%)	258 (96%)	10 (4%)	35	6

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	110	ASN
1	A	206[A]	GLN
1	A	206[B]	GLN
1	B	109	ASN
1	B	110	ASN
1	B	114	ASP
1	B	177[A]	LYS
1	B	177[B]	LYS
1	B	206	GLN
1	B	207	HIS

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

Mol	Chain	Res	Type
1	A	77	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](#)

7 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	EDO	A	1211[B]	-	3,3,3	0.72	0	2,2,2	0.15	0
2	EDO	A	1209	-	3,3,3	0.78	0	2,2,2	1.56	0
3	FMT	A	1210	-	2,2,2	0.92	0	1,1,1	0.23	0
2	EDO	B	1208	-	3,3,3	1.88	1 (33%)	2,2,2	1.17	0
2	EDO	A	1212	-	3,3,3	1.24	0	2,2,2	1.18	0
2	EDO	A	1211[A]	-	3,3,3	0.48	0	2,2,2	0.33	0
2	EDO	B	1209	-	3,3,3	0.40	0	2,2,2	0.09	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	EDO	A	1211[B]	-	-	0/1/1/1	-
2	EDO	A	1209	-	-	1/1/1/1	-
2	EDO	B	1208	-	-	1/1/1/1	-
2	EDO	A	1212	-	-	1/1/1/1	-
2	EDO	A	1211[A]	-	-	0/1/1/1	-
2	EDO	B	1209	-	-	1/1/1/1	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1208	EDO	O2-C2	2.53	1.55	1.42

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1209	EDO	O1-C1-C2-O2
2	B	1209	EDO	O1-C1-C2-O2
2	A	1212	EDO	O1-C1-C2-O2
2	B	1208	EDO	O1-C1-C2-O2

There are no ring outliers.

3 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1209	EDO	4	0
2	A	1212	EDO	1	1
2	B	1209	EDO	0	2

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	153/164 (93%)	0.05	13 (8%)	18 18	10, 21, 70, 109	5 (3%)
1	B	154/164 (93%)	0.15	16 (10%)	13 12	10, 22, 64, 96	7 (4%)
All	All	307/328 (93%)	0.10	29 (9%)	15 15	10, 22, 66, 109	12 (3%)

All (29) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	208	LEU	5.5
1	B	207	HIS	4.9
1	A	56	LYS	4.2
1	B	111	ASP	4.1
1	A	109	ASN	3.4
1	A	108	ASN	3.2
1	A	113	GLU	3.2
1	B	198	GLN	3.2
1	B	109	ASN	3.1
1	B	110	ASN	3.0
1	B	115	LEU	3.0
1	B	199	LYS	2.9
1	A	133	PRO	2.9
1	B	194[A]	ILE	2.8
1	A	110	ASN	2.8
1	B	54	GLY	2.7
1	B	113	GLU	2.4
1	A	112	GLU	2.4
1	A	207	HIS	2.3
1	B	112	GLU	2.3
1	A	198	GLN	2.3
1	B	134	LYS	2.3
1	A	107	CYS	2.2
1	B	133	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	114	ASP	2.1
1	B	171	GLY	2.1
1	B	177[A]	LYS	2.1
1	A	134	LYS	2.0
1	A	111	ASP	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 monosaccharides 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
2	EDO	B	1208	4/4	0.76	0.19	22,30,47,47	0
2	EDO	B	1209	4/4	0.84	0.24	79,94,108,111	0
2	EDO	A	1211[A]	4/4	0.86	0.16	12,25,30,30	10
2	EDO	A	1211[B]	4/4	0.86	0.16	9,11,29,35	10
2	EDO	A	1209	4/4	0.89	0.13	21,27,32,38	0
2	EDO	A	1212	4/4	0.89	0.18	19,23,36,44	0
3	FMT	A	1210	3/3	0.96	0.08	19,19,23,24	0

6.5 Other polymers [i](#)

There are no such residues in this entry.