



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 5, 2026 – 01:37 PM UTC

PDB ID : 6PER / pdb_00006per
Title : Crystal Structure of Ligand-Free iSeroSnFR
Authors : Hartanto, S.; Tian, L.; Fisher, A.J.
Deposited on : 2019-06-20
Resolution : 2.10 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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

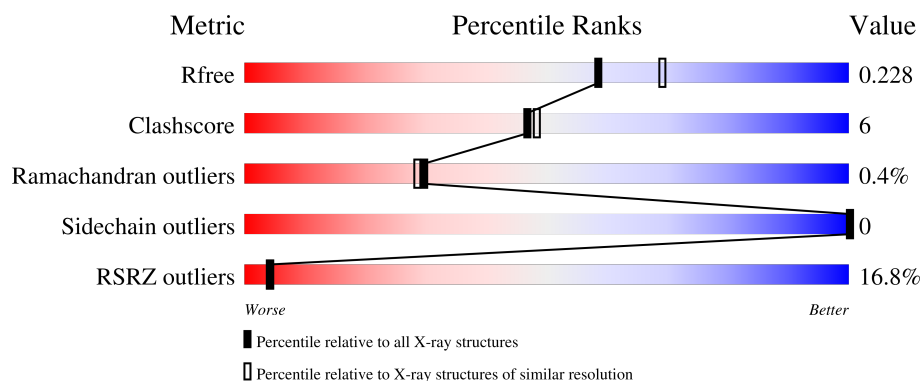
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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}	180053	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	555	15% 78% 13% 9%

2 Entry composition [i](#)

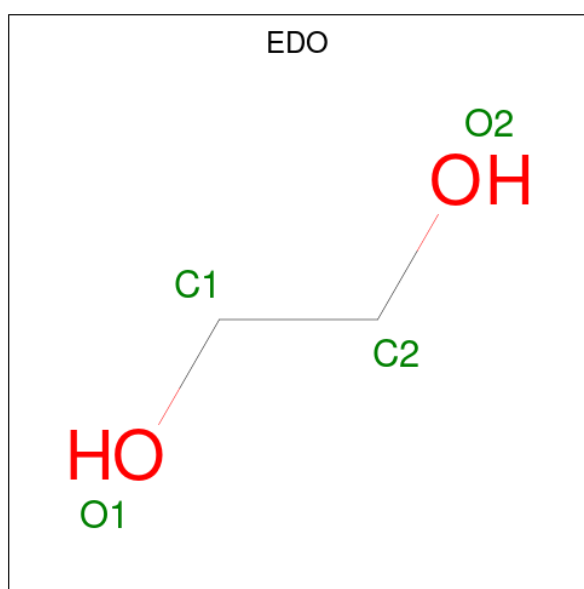
There are 3 unique types of molecules in this entry. The entry contains 4269 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 iSeroSnFR, a soluble, genetically-encoded fluorescent sensor for serotonin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	507	Total	C	N	O	S	0	2	0
			4024	2578	667	767	12			

- Molecule 2 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

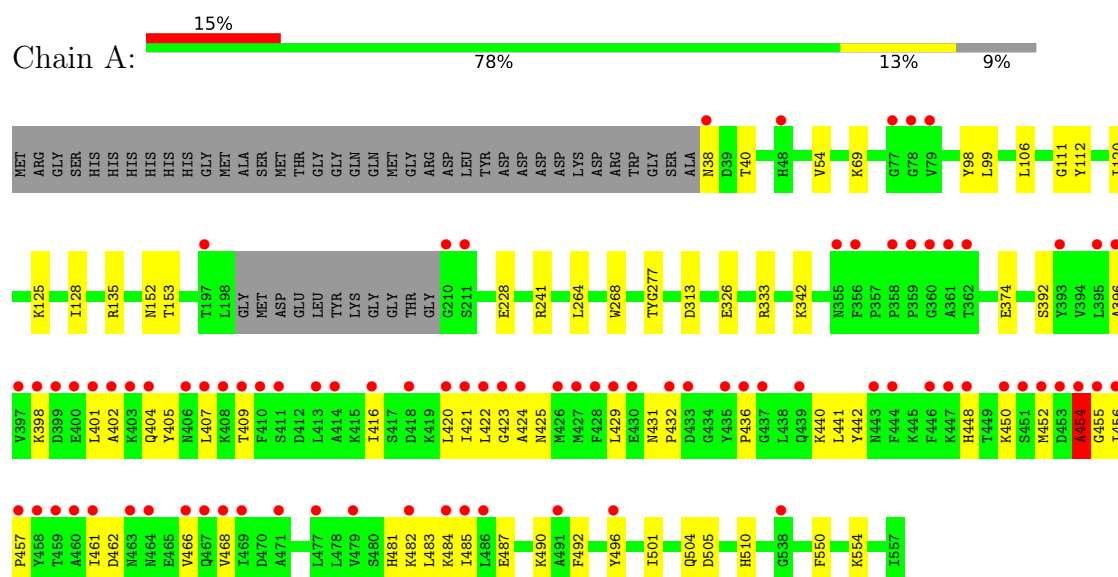
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	225	Total 225	O 225	0	0

3 Residue-property plots

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: iSeroSnFR, a soluble, genetically-encoded fluorescent sensor for serotonin



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	80.67Å 99.25Å 150.56Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	62.60 – 2.10 62.60 – 2.10	Depositor EDS
% Data completeness (in resolution range)	93.2 (62.60-2.10) 97.6 (62.60-2.10)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.91 (at 2.10Å)	Xtriage
Refinement program	PHENIX (1.14_3260: ???)	Depositor
R, R_{free}	0.188 , 0.232 0.189 , 0.228	Depositor DCC
R_{free} test set	1778 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	33.1	Xtriage
Anisotropy	0.248	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 43.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4269	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.30% 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: CRO, 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	0.36	0/4091	0.57	3/5531 (0.1%)

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	A	0	1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	504	GLN	CA-C-N	5.27	131.61	121.54
1	A	504	GLN	C-N-CA	5.27	131.61	121.54
1	A	241	ARG	CB-CG-CD	-5.01	99.79	111.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	454	ALA	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	4024	0	4014	46	0
2	A	20	0	30	0	0
3	A	225	0	0	1	0
All	All	4269	0	4044	46	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 (46) 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:424:ALA:HB3	1:A:429:LEU:CD1	2.02	0.90
1:A:424:ALA:HB3	1:A:429:LEU:HD13	1.57	0.86
1:A:421:ILE:HG21	1:A:450:LYS:HE3	1.64	0.79
1:A:401:LEU:HA	1:A:404:GLN:OE1	1.87	0.74
1:A:228:GLU:OE1	1:A:333:ARG:NH1	2.21	0.73
1:A:423:GLY:H	1:A:466:VAL:HG11	1.54	0.71
1:A:120:ILE:HD11	1:A:440:LYS:HD3	1.73	0.70
1:A:409:THR:HG22	1:A:487:GLU:HB3	1.74	0.69
1:A:392:SER:HA	1:A:496:TYR:HD1	1.62	0.65
1:A:454:ALA:O	1:A:456:ILE:N	2.29	0.63
1:A:112:TYR:HE2	1:A:374:GLU:HG3	1.64	0.63
1:A:111:GLY:HA3	1:A:135:ARG:HD3	1.85	0.59
1:A:505:ASP:HB2	3:A:1245:HOH:O	2.03	0.58
1:A:550:PHE:CZ	1:A:554:LYS:HD2	2.39	0.58
1:A:423:GLY:N	1:A:466:VAL:HG11	2.18	0.57
1:A:421:ILE:CG2	1:A:450:LYS:HE3	2.32	0.56
1:A:424:ALA:HB3	1:A:429:LEU:HD11	1.88	0.55
1:A:38:ASN:HB3	1:A:510:HIS:NE2	2.21	0.55
1:A:425:ASN:HA	1:A:452:MET:O	2.06	0.55
1:A:431:ASN:HD22	1:A:432:PRO:HD2	1.73	0.54
1:A:462:ASP:OD2	1:A:481:HIS:ND1	2.32	0.54
1:A:422:LEU:HD11	1:A:424:ALA:HB2	1.91	0.53
1:A:485:ILE:O	1:A:485:ILE:HG13	2.09	0.53
1:A:421:ILE:HG23	1:A:448:HIS:O	2.09	0.53
1:A:313:ASP:O	1:A:342:LYS:HE2	2.10	0.52
1:A:416:ILE:HG22	1:A:420:LEU:HD13	1.94	0.50
1:A:422:LEU:HD23	1:A:468:VAL:HB	1.93	0.50
1:A:405:TYR:HB2	1:A:407:LEU:HD21	1.95	0.48
1:A:398:LYS:HE2	1:A:461:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:436:PRO:O	1:A:440:LYS:HG3	2.15	0.47
1:A:398:LYS:HE3	1:A:398:LYS:HB2	1.65	0.47
1:A:441:LEU:HD23	1:A:492:PHE:HB2	1.97	0.46
1:A:54:VAL:HG11	1:A:99:LEU:HD22	1.98	0.46
1:A:416:ILE:HG22	1:A:416:ILE:O	2.18	0.44
1:A:125:LYS:O	1:A:153:THR:HG23	2.18	0.43
1:A:442:TYR:CE1	1:A:490:LYS:HD3	2.53	0.43
1:A:326:GLU:OE1	1:A:333:ARG:NH2	2.51	0.42
1:A:98:TYR:CE1	1:A:501:ILE:HD11	2.54	0.42
1:A:40:THR:HG22	1:A:69:LYS:CG	2.50	0.42
1:A:482:LYS:C	1:A:483:LEU:HD23	2.45	0.42
1:A:456:ILE:N	1:A:457:PRO:HD2	2.35	0.41
1:A:396:ALA:HA	1:A:484:LYS:O	2.19	0.41
1:A:106:LEU:HD12	1:A:106:LEU:HA	1.80	0.41
1:A:402:ALA:O	1:A:407:LEU:HG	2.21	0.41
1:A:264:LEU:HD22	1:A:268:TRP:CE2	2.56	0.41
1:A:128:ILE:HG13	1:A:152:ASN:HB2	2.01	0.41

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	502/555 (90%)	484 (96%)	16 (3%)	2 (0%)	30	28

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	455	GLY
1	A	454	ALA

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	436/470 (93%)	436 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	75	ASN
1	A	431	ASN
1	A	443	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

1 non-standard protein/DNA/RNA residue is 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	$\# Z > 2$
1	CRO	A	277	1	22,23,24	3.79	6 (27%)	30,32,34	3.34	9 (30%)

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
1	CRO	A	277	1	-	2/12/31/32	0/2/2/2

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	277	CRO	CB2-CA2	16.16	1.50	1.35
1	A	277	CRO	C2-N3	-4.07	1.30	1.40
1	A	277	CRO	C1-N2	3.41	1.37	1.32
1	A	277	CRO	O2-C2	3.40	1.30	1.23
1	A	277	CRO	CG2-CB2	2.42	1.51	1.46
1	A	277	CRO	CA2-C2	-2.30	1.46	1.48

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	277	CRO	CA2-C2-N3	9.13	111.17	103.50
1	A	277	CRO	O2-C2-CA2	-8.92	125.33	131.02
1	A	277	CRO	C2-CA2-N2	-7.54	103.55	108.95
1	A	277	CRO	CG2-CB2-CA2	-6.39	122.27	129.87
1	A	277	CRO	CB2-CA2-N2	4.60	135.00	128.76
1	A	277	CRO	C2-N3-C1	-3.92	106.25	108.07
1	A	277	CRO	CA2-N2-C1	2.39	107.67	105.80
1	A	277	CRO	CD2-CG2-CD1	2.30	121.06	117.65
1	A	277	CRO	C1-CA1-N1	-2.11	106.01	109.78

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	277	CRO	C2-CA2-CB2-CG2
1	A	277	CRO	N2-CA2-CB2-CG2

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

5 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	1005	-	3,3,3	0.53	0	2,2,2	0.34	0
2	EDO	A	1003	-	3,3,3	0.40	0	2,2,2	0.67	0
2	EDO	A	1004	-	3,3,3	0.44	0	2,2,2	0.53	0
2	EDO	A	1001	-	3,3,3	0.53	0	2,2,2	0.37	0
2	EDO	A	1002	-	3,3,3	0.43	0	2,2,2	1.03	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	1005	-	-	1/1/1/1	-
2	EDO	A	1003	-	-	1/1/1/1	-
2	EDO	A	1004	-	-	0/1/1/1	-
2	EDO	A	1001	-	-	0/1/1/1	-
2	EDO	A	1002	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1005	EDO	O1-C1-C2-O2
2	A	1003	EDO	O1-C1-C2-O2
2	A	1002	EDO	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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	506/555 (91%)	0.50	85 (16%) 4 4	19, 35, 90, 105	2 (0%)

All (85) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	395	LEU	6.3
1	A	486	LEU	6.1
1	A	402	ALA	5.3
1	A	359	PRO	4.8
1	A	422	LEU	4.7
1	A	397	VAL	4.7
1	A	210	GLY	4.6
1	A	468	VAL	4.5
1	A	469	ILE	4.5
1	A	456	ILE	4.4
1	A	361	ALA	4.2
1	A	416	ILE	4.2
1	A	421	ILE	4.2
1	A	401	LEU	4.2
1	A	428	PHE	4.2
1	A	433	ASP	4.1
1	A	360	GLY	4.1
1	A	448	HIS	4.0
1	A	426	MET	4.0
1	A	427	MET	4.0
1	A	407	LEU	3.9
1	A	393	TYR	3.8
1	A	78	GLY	3.8
1	A	429	LEU	3.7
1	A	446	PHE	3.6
1	A	485	ILE	3.6
1	A	362	THR	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	396	ALA	3.6
1	A	413	LEU	3.6
1	A	423	GLY	3.6
1	A	404	GLN	3.6
1	A	403	LYS	3.5
1	A	409	THR	3.4
1	A	479	VAL	3.4
1	A	424	ALA	3.3
1	A	461	ILE	3.2
1	A	79	VAL	3.2
1	A	458	TYR	3.1
1	A	454	ALA	3.0
1	A	463	ASN	3.0
1	A	420	LEU	3.0
1	A	455	GLY	3.0
1	A	399	ASP	3.0
1	A	211	SER	2.9
1	A	435	TYR	2.9
1	A	414	ALA	2.9
1	A	358	PRO	2.9
1	A	444	PHE	2.9
1	A	451	SER	2.9
1	A	452	MET	2.8
1	A	439	GLN	2.7
1	A	464	ASN	2.7
1	A	400	GLU	2.6
1	A	398	LYS	2.6
1	A	432	PRO	2.6
1	A	77	GLY	2.6
1	A	406	ASN	2.6
1	A	48	HIS	2.5
1	A	457	PRO	2.5
1	A	356	PHE	2.5
1	A	355	ASN	2.5
1	A	450	LYS	2.4
1	A	38	ASN	2.4
1	A	418	ASP	2.4
1	A	436	PRO	2.4
1	A	459	THR	2.4
1	A	471	ALA	2.3
1	A	410	PHE	2.3
1	A	453	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	460	ALA	2.3
1	A	477	LEU	2.3
1	A	197	THR	2.2
1	A	443	ASN	2.2
1	A	484	LYS	2.2
1	A	538	GLY	2.2
1	A	496	TYR	2.2
1	A	466	VAL	2.1
1	A	437	GLY	2.1
1	A	408	LYS	2.1
1	A	482	LYS	2.1
1	A	491	ALA	2.1
1	A	411	SER	2.1
1	A	430	GLU	2.1
1	A	447	LYS	2.1
1	A	467	GLN	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	CRO	A	277	22/23	0.96	0.06	21,26,31,35	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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	A	1005	4/4	0.79	0.17	44,51,51,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	EDO	A	1004	4/4	0.83	0.14	48,49,49,51	0
2	EDO	A	1001	4/4	0.84	0.14	37,41,43,44	0
2	EDO	A	1002	4/4	0.86	0.16	42,44,45,46	0
2	EDO	A	1003	4/4	0.87	0.10	34,35,47,54	0

6.5 Other polymers [i](#)

There are no such residues in this entry.