



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:32 PM UTC

PDB ID : 7JLK / pdb_00007jlk
Title : Crystal structure of gIVRC01 Fab in complex with anti-idiotypic iv1 scFv
Authors : Weidle, C.; Pancera, M.
Deposited on : 2020-07-29
Resolution : 1.99 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

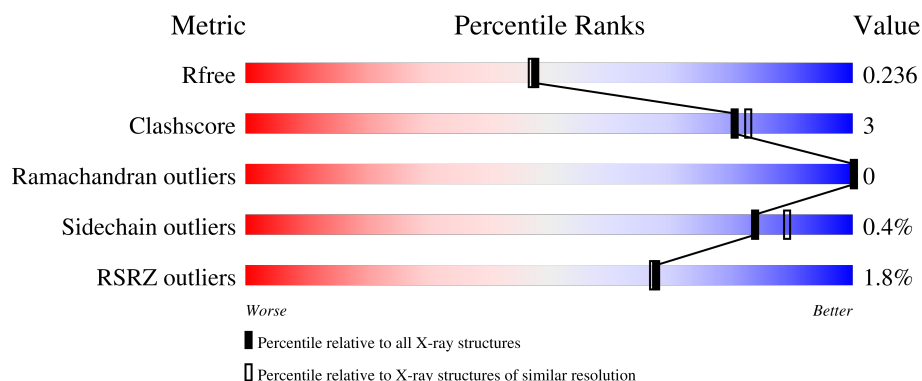
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

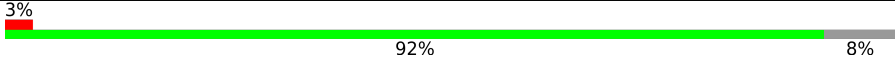
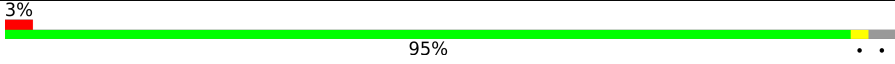
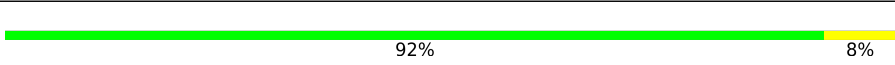
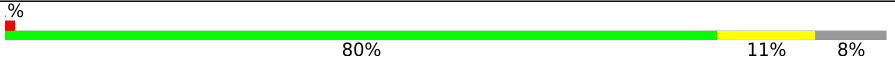
The reported resolution of this entry is 1.99 Å.

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	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	H	133	
2	A	233	
3	B	210	
4	L	122	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 10549 atoms, of which 4911 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 iv1 Heavy Chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	H	122	Total	C	H	N	O	S	0	0	0
			1806	597	875	150	181	3			

- Molecule 2 is a protein called gIVRC01 Heavy Chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	A	226	Total	C	H	N	O	S	0	0	0
			3295	1062	1607	291	326	9			

- Molecule 3 is a protein called gIVRC01 Light Chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	B	210	Total	C	H	N	O	S	0	0	0
			3138	1006	1532	268	327	5			

- Molecule 4 is a protein called iv1 Light Chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
4	L	112	Total	C	H	N	O	S	0	0	0
			1672	532	823	148	165	4			

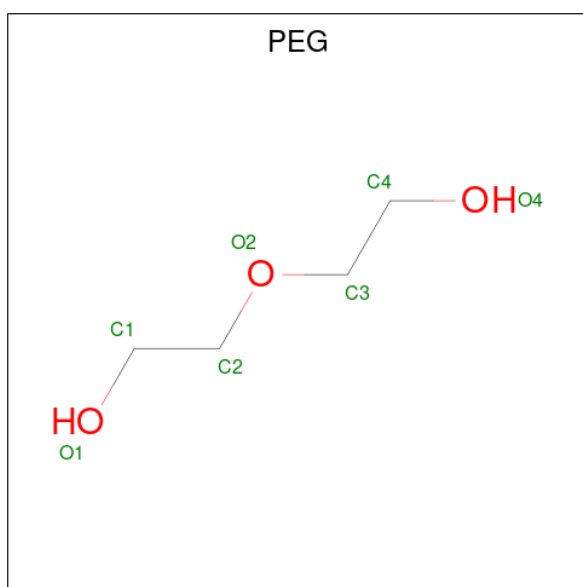
- Molecule 5 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	H	2	Total	Na	0	0
			2	2		
5	A	4	Total	Na	0	0
			4	4		
5	B	8	Total	Na	0	0
			8	8		
5	L	3	Total	Na	0	0
			3	3		

- Molecule 6 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	H	3	Total	Cl	0	0
			3	3		
6	A	2	Total	Cl	0	0
			2	2		
6	B	5	Total	Cl	0	0
			5	5		
6	L	4	Total	Cl	0	0
			4	4		

- Molecule 7 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C₄H₁₀O₃).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
7	A	1	Total	C	H	O	0	0
			17	4	10	3		
7	B	1	Total	C	H	O	0	0
			17	4	10	3		
7	B	1	Total	C	H	O	0	0
			17	4	10	3		
7	B	1	Total	C	H	O	0	0
			17	4	10	3		
7	B	1	Total	C	H	O	0	0
			17	4	10	3		

- Molecule 8 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

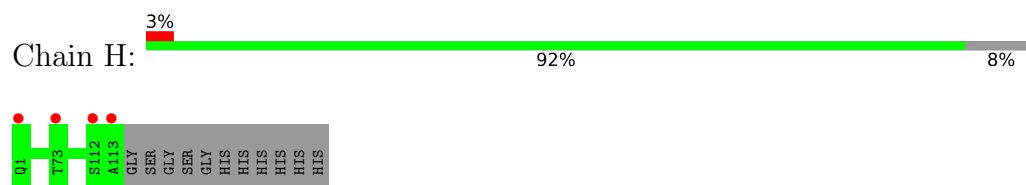
- Molecule 9 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	H	70	Total	O	0	0
			70	70		
9	A	177	Total	O	0	0
			177	177		
9	B	159	Total	O	0	0
			159	159		
9	L	76	Total	O	0	0
			76	76		

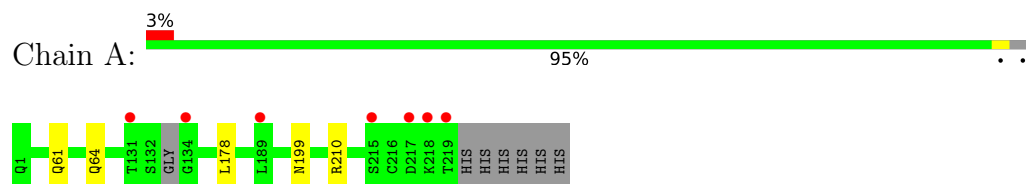
3 Residue-property plots [i](#)

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.

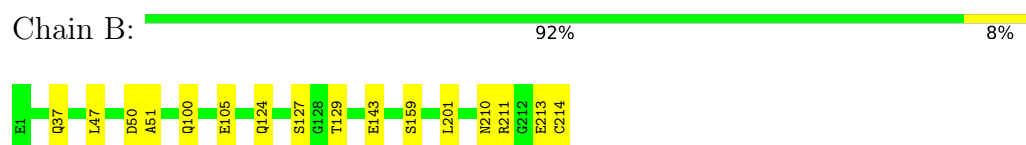
- Molecule 1: iv1 Heavy Chain



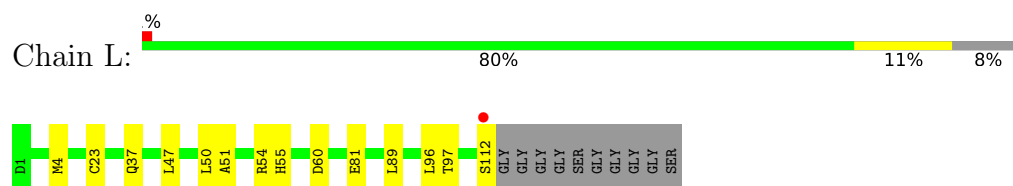
- Molecule 2: gIVRC01 Heavy Chain



- Molecule 3: gIVRC01 Light Chain



- Molecule 4: iv1 Light Chain



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	70.02Å 85.24Å 113.64Å 90.00° 99.73° 90.00°	Depositor
Resolution (Å)	42.62 – 1.99 42.62 – 1.99	Depositor EDS
% Data completeness (in resolution range)	99.1 (42.62-1.99) 99.2 (42.62-1.99)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.05 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.15.2_3472	Depositor
R, R_{free}	0.179 , 0.235 0.180 , 0.236	Depositor DCC
R_{free} test set	2273 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	33.9	Xtriage
Anisotropy	0.254	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 37.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	10549	wwPDB-VP
Average B, all atoms (Å ²)	45.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.52% 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, CL, PEG, NA

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	H	0.10	0/956	0.25	0/1302
2	A	0.10	0/1731	0.27	0/2361
3	B	0.10	0/1641	0.28	0/2233
4	L	0.11	0/867	0.29	0/1173
All	All	0.10	0/5195	0.28	0/7069

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 [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	H	931	875	875	0	0
2	A	1688	1607	1607	5	0
3	B	1606	1532	1532	11	0
4	L	849	823	823	9	0
5	A	4	0	0	0	0
5	B	8	0	0	0	0
5	H	2	0	0	0	0
5	L	3	0	0	0	0
6	A	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	B	5	0	0	2	0
6	H	3	0	0	1	0
6	L	4	0	0	1	0
7	A	7	10	10	0	0
7	B	28	40	40	0	0
8	A	4	6	6	0	0
8	B	8	12	12	0	0
8	L	4	6	6	0	0
9	A	177	0	0	4	0
9	B	159	0	0	6	0
9	H	70	0	0	1	0
9	L	76	0	0	2	0
All	All	5638	4911	4911	26	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 3.

All (26) 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)
6:H:205:CL:CL	9:H:363:HOH:O	2.28	0.88
2:A:64:GLN:NE2	9:A:402:HOH:O	2.13	0.81
3:B:201:LEU:O	9:B:401:HOH:O	2.00	0.78
4:L:60:ASP:OD2	9:L:301:HOH:O	2.06	0.74
3:B:211:ARG:O	9:B:402:HOH:O	2.07	0.72
2:A:61:GLN:OE1	9:A:401:HOH:O	2.06	0.72
2:A:199:ASN:OD1	9:A:403:HOH:O	2.15	0.65
3:B:129:THR:OG1	9:B:403:HOH:O	2.14	0.65
3:B:210:ASN:ND2	9:B:408:HOH:O	2.30	0.61
3:B:124:GLN:O	3:B:127:SER:OG	2.18	0.60
4:L:4:MET:HE3	4:L:23:CYS:SG	2.51	0.50
3:B:143:GLU:OE1	9:B:405:HOH:O	2.20	0.49
4:L:89:LEU:HD11	4:L:96:LEU:HB3	1.96	0.48
2:A:178:LEU:C	2:A:178:LEU:HD12	2.40	0.47
2:A:210:ARG:NH2	9:A:414:HOH:O	2.48	0.46
3:B:159:SER:OG	6:B:309:CL:CL	2.67	0.45
3:B:50:ASP:O	3:B:51:ALA:HB3	2.17	0.45
3:B:100:GLN:HB2	6:B:313:CL:CL	2.56	0.43
4:L:37:GLN:HB2	4:L:47:LEU:HD11	2.01	0.42
4:L:54:ARG:NE	9:L:303:HOH:O	2.45	0.42
4:L:81:GLU:HA	4:L:112:SER:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:L:55:HIS:NE2	6:L:206:CL:CL	2.86	0.41
4:L:50:LEU:O	4:L:51:ALA:HB3	2.21	0.41
4:L:89:LEU:HD12	4:L:97:THR:O	2.21	0.41
3:B:213:GLU:O	9:B:406:HOH:O	2.22	0.40
3:B:37:GLN:HB2	3:B:47:LEU:HD11	2.03	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	H	120/133 (90%)	116 (97%)	4 (3%)	0	100	100
2	A	222/233 (95%)	217 (98%)	5 (2%)	0	100	100
3	B	208/210 (99%)	200 (96%)	8 (4%)	0	100	100
4	L	110/122 (90%)	103 (94%)	7 (6%)	0	100	100
All	All	660/698 (95%)	636 (96%)	24 (4%)	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	H	94/107 (88%)	94 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	A	182/198 (92%)	182 (100%)	0	100	100
3	B	178/182 (98%)	176 (99%)	2 (1%)	65	73
4	L	92/95 (97%)	92 (100%)	0	100	100
All	All	546/582 (94%)	544 (100%)	2 (0%)	84	89

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	B	105	GLU
3	B	214	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	35	ASN
2	A	39	GLN
2	A	101	GLN
2	A	102	HIS
2	A	171	GLN
3	B	38	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 40 ligands modelled in this entry, 31 are monoatomic - leaving 9 for Mogul analysis.

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
8	EDO	B	319	-	3,3,3	0.42	0	2,2,2	0.33	0
7	PEG	B	314	-	6,6,6	0.51	0	5,5,5	0.26	0
7	PEG	B	315	-	6,6,6	0.50	0	5,5,5	0.28	0
7	PEG	B	317	-	6,6,6	0.50	0	5,5,5	0.31	0
8	EDO	B	318	-	3,3,3	0.46	0	2,2,2	0.28	0
8	EDO	A	308	-	3,3,3	0.42	0	2,2,2	0.39	0
8	EDO	L	208	-	3,3,3	0.42	0	2,2,2	0.39	0
7	PEG	B	316	-	6,6,6	0.50	0	5,5,5	0.29	0
7	PEG	A	307	-	6,6,6	0.50	0	5,5,5	0.26	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
8	EDO	B	319	-	-	1/1/1/1	-
7	PEG	B	314	-	-	1/4/4/4	-
7	PEG	B	315	-	-	0/4/4/4	-
7	PEG	B	317	-	-	0/4/4/4	-
8	EDO	B	318	-	-	0/1/1/1	-
8	EDO	A	308	-	-	0/1/1/1	-
8	EDO	L	208	-	-	0/1/1/1	-
7	PEG	B	316	-	-	1/4/4/4	-
7	PEG	A	307	-	-	0/4/4/4	-

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
7	B	314	PEG	O1-C1-C2-O2

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Mol	Chain	Res	Type	Atoms
7	B	316	PEG	C1-C2-O2-C3
8	B	319	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	H	122/133 (91%)	0.10	4 (3%)	49	48	28, 41, 70, 93	0
2	A	226/233 (96%)	0.14	7 (3%)	51	50	29, 43, 87, 143	0
3	B	210/210 (100%)	0.07	0	100	100	27, 43, 70, 113	0
4	L	112/122 (91%)	0.13	1 (0%)	81	80	28, 41, 65, 103	0
All	All	670/698 (95%)	0.11	12 (1%)	67	67	27, 42, 73, 143	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	A	131	THR	5.2
1	H	113	ALA	4.4
4	L	112	SER	3.6
2	A	134	GLY	3.6
1	H	73	THR	3.4
2	A	217	ASP	3.2
2	A	218	LYS	3.1
1	H	1	GLN	3.0
1	H	112	SER	2.7
2	A	215	SER	2.6
2	A	219	THR	2.2
2	A	189	LEU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands

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
7	PEG	B	316	7/7	0.71	0.15	41,66,74,75	0
6	CL	L	207	1/1	0.77	0.14	83,83,83,83	0
6	CL	B	310	1/1	0.78	0.11	74,74,74,74	0
7	PEG	B	317	7/7	0.80	0.12	43,52,71,71	0
7	PEG	A	307	7/7	0.82	0.13	56,71,89,89	0
7	PEG	B	315	7/7	0.82	0.11	60,75,106,107	0
6	CL	B	312	1/1	0.84	0.17	67,67,67,67	0
8	EDO	B	319	4/4	0.84	0.12	41,49,54,58	0
5	NA	B	308	1/1	0.85	0.14	50,50,50,50	0
6	CL	H	204	1/1	0.85	0.19	66,66,66,66	0
5	NA	A	304	1/1	0.86	0.13	68,68,68,68	0
6	CL	A	306	1/1	0.86	0.13	81,81,81,81	0
5	NA	B	304	1/1	0.87	0.10	62,62,62,62	0
6	CL	B	313	1/1	0.87	0.13	57,57,57,57	0
8	EDO	B	318	4/4	0.87	0.12	40,48,56,58	0
6	CL	L	205	1/1	0.87	0.23	62,62,62,62	0
8	EDO	L	208	4/4	0.87	0.10	47,57,60,65	0
5	NA	A	303	1/1	0.88	0.13	60,60,60,60	0
6	CL	L	206	1/1	0.88	0.20	69,69,69,69	0
8	EDO	A	308	4/4	0.89	0.10	45,54,58,62	0
6	CL	B	309	1/1	0.89	0.14	63,63,63,63	0
6	CL	A	305	1/1	0.89	0.13	75,75,75,75	0
7	PEG	B	314	7/7	0.89	0.09	37,54,66,66	0
5	NA	L	203	1/1	0.90	0.17	53,53,53,53	0
5	NA	B	303	1/1	0.90	0.09	52,52,52,52	0
5	NA	H	201	1/1	0.91	0.11	55,55,55,55	0
5	NA	L	202	1/1	0.91	0.08	61,61,61,61	0
5	NA	B	306	1/1	0.92	0.09	52,52,52,52	0
5	NA	B	307	1/1	0.92	0.09	45,45,45,45	0
5	NA	B	305	1/1	0.92	0.07	55,55,55,55	0
5	NA	A	302	1/1	0.93	0.07	49,49,49,49	0
5	NA	H	202	1/1	0.93	0.13	59,59,59,59	0
5	NA	A	301	1/1	0.93	0.09	50,50,50,50	0
6	CL	H	205	1/1	0.94	0.08	55,55,55,55	0
6	CL	H	203	1/1	0.95	0.16	59,59,59,59	0
6	CL	B	311	1/1	0.95	0.17	60,60,60,60	0
5	NA	B	302	1/1	0.95	0.13	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
5	NA	L	201	1/1	0.95	0.07	47,47,47,47	0
5	NA	B	301	1/1	0.96	0.14	56,56,56,56	0
6	CL	L	204	1/1	0.96	0.06	57,57,57,57	0

6.5 Other polymers [i](#)

There are no such residues in this entry.