



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 12, 2024 – 09:35 PM EDT

PDB ID : 6MXS
Title : Crystal structure of the dimeric bH1-Fab variant [HC-Y33W,HC-D98F,HC-G99M]
Authors : Shi, R.; Picard, M.-E.; Manenda, M.S.
Deposited on : 2018-10-31
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

<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	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
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

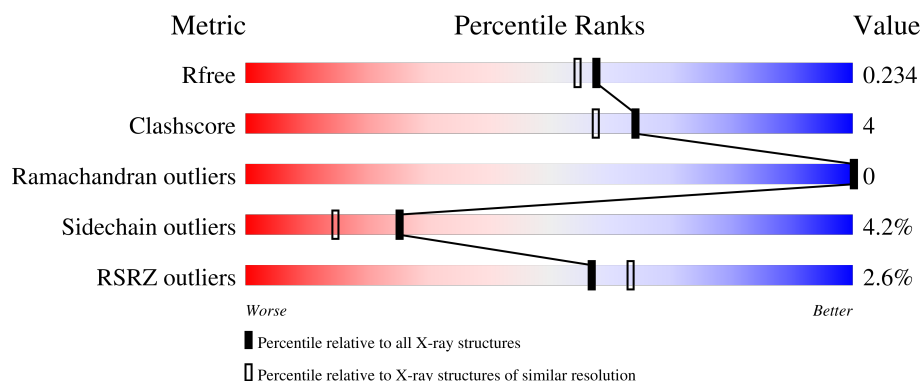
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

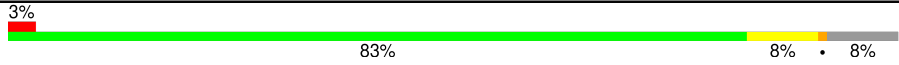

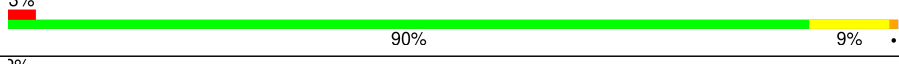

The reported resolution of this entry is 1.95 Å.

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}	164625	3187 (1.96-1.96)
Clashscore	180529	3412 (1.96-1.96)
Ramachandran outliers	177936	3390 (1.96-1.96)
Sidechain outliers	177891	3390 (1.96-1.96)
RSRZ outliers	164620	3186 (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 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	236	
1	H	236	
2	B	218	
2	L	218	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 7555 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 anti-VEGF-A Fab fragment bH1 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	217	Total	C	N	O	S	0	3	0
			1654	1050	278	317	9			
1	A	218	Total	C	N	O	S	0	2	0
			1657	1051	279	318	9			

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	220	GLY	-	expression tag	UNP V9HW68
H	221	HIS	-	expression tag	UNP V9HW68
H	222	HIS	-	expression tag	UNP V9HW68
H	223	HIS	-	expression tag	UNP V9HW68
H	224	HIS	-	expression tag	UNP V9HW68
H	225	HIS	-	expression tag	UNP V9HW68
H	226	HIS	-	expression tag	UNP V9HW68
H	227	HIS	-	expression tag	UNP V9HW68
H	228	HIS	-	expression tag	UNP V9HW68
H	229	GLY	-	expression tag	UNP V9HW68
A	220	GLY	-	expression tag	UNP V9HW68
A	221	HIS	-	expression tag	UNP V9HW68
A	222	HIS	-	expression tag	UNP V9HW68
A	223	HIS	-	expression tag	UNP V9HW68
A	224	HIS	-	expression tag	UNP V9HW68
A	225	HIS	-	expression tag	UNP V9HW68
A	226	HIS	-	expression tag	UNP V9HW68
A	227	HIS	-	expression tag	UNP V9HW68
A	228	HIS	-	expression tag	UNP V9HW68
A	229	GLY	-	expression tag	UNP V9HW68

- Molecule 2 is a protein called anti-VEGF-A Fab fragment bH1 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	218	Total	C	N	O	S	0	2	0
			1698	1066	282	343	7			
2	B	217	Total	C	N	O	S	0	2	0
			1691	1062	282	340	7			

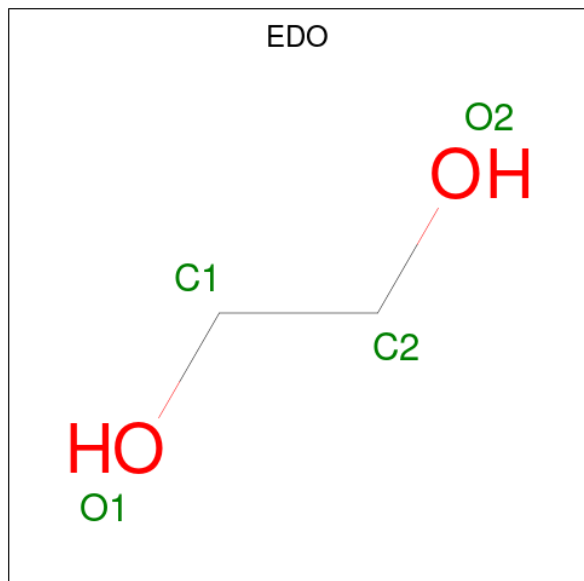
- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	L	1	Total	Cl	0	0
			1	1		
3	B	1	Total	Cl	0	0
			1	1		

- Molecule 4 is SODIUM ION (three-letter code: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	1	Total	Na	0	0
			1	1		

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

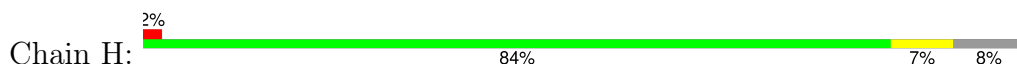
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	H	189	Total 189	O 189	0	0
6	L	232	Total 232	O 232	0	0
6	A	175	Total 175	O 175	0	0
6	B	248	Total 248	O 248	0	0

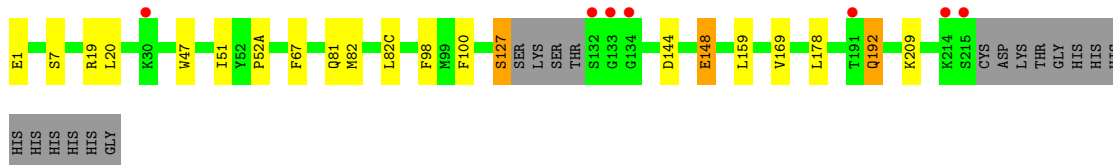
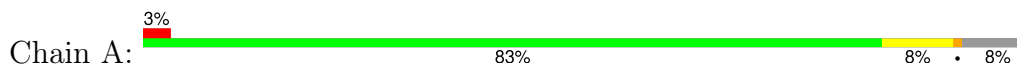
3 Residue-property plots [i](#)

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.

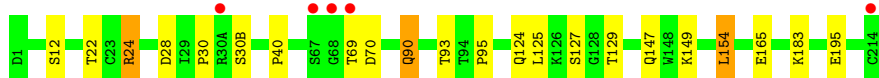
- Molecule 1: anti-VEGF-A Fab fragment bH1 heavy chain



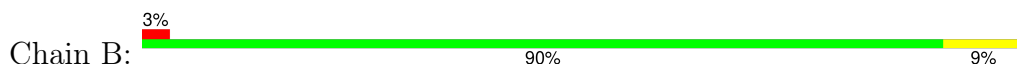
- Molecule 1: anti-VEGF-A Fab fragment bH1 heavy chain



- Molecule 2: anti-VEGF-A Fab fragment bH1 light chain



- Molecule 2: anti-VEGF-A Fab fragment bH1 light chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	65.68Å 95.96Å 110.11Å 90.00° 103.68° 90.00°	Depositor
Resolution (Å)	50.00 – 1.95 50.00 – 1.95	Depositor EDS
% Data completeness (in resolution range)	98.7 (50.00-1.95) 98.7 (50.00-1.95)	Depositor EDS
R_{merge}	0.22	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.53 (at 1.95Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
R, R_{free}	0.191 , 0.229 0.200 , 0.234	Depositor DCC
R_{free} test set	4881 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	25.2	Xtriage
Anisotropy	0.508	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 35.9	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	0.95	EDS
Total number of atoms	7555	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 4.87% 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: NA, EDO, CL

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	1.02	1/1700 (0.1%)	0.96	3/2316 (0.1%)
1	H	0.95	1/1700 (0.1%)	0.96	2/2316 (0.1%)
2	B	1.07	2/1732 (0.1%)	0.93	2/2355 (0.1%)
2	L	1.03	2/1742 (0.1%)	0.94	0/2367
All	All	1.02	6/6874 (0.1%)	0.95	7/9354 (0.1%)

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	148	GLU	CD-OE1	9.74	1.36	1.25
1	H	148	GLU	CD-OE1	6.10	1.32	1.25
2	L	127	SER	CB-OG	5.89	1.50	1.42
2	B	30(B)	SER	CB-OG	5.08	1.48	1.42
2	B	81	GLU	CG-CD	5.05	1.59	1.51
2	L	195	GLU	CD-OE1	5.00	1.31	1.25

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	50	ARG	NE-CZ-NH2	12.92	126.76	120.30
1	H	50	ARG	NE-CZ-NH1	-11.47	114.57	120.30
1	A	144	ASP	CB-CG-OD2	-7.60	111.46	118.30
1	A	144	ASP	CB-CG-OD1	6.80	124.42	118.30
2	B	108	ARG	NE-CZ-NH2	5.90	123.25	120.30
1	A	209	LYS	CD-CE-NZ	-5.32	99.47	111.70
2	B	108	ARG	NE-CZ-NH1	-5.07	117.77	120.30

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	1657	0	1613	15	0
1	H	1654	0	1613	9	0
2	B	1691	0	1633	14	0
2	L	1698	0	1639	10	0
3	B	1	0	0	0	0
3	L	1	0	0	0	0
4	L	1	0	0	0	0
5	B	8	0	12	0	0
6	A	175	0	0	3	0
6	B	248	0	0	4	0
6	H	189	0	0	2	0
6	L	232	0	0	2	0
All	All	7555	0	6510	44	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 4.

All (44) 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:H:169:VAL:HB	6:L:595:HOH:O	1.44	1.12
1:H:127:SER:HB3	6:H:464:HOH:O	1.59	1.00
1:A:192:GLN:HE21	1:A:192:GLN:HA	1.37	0.88
2:B:4:MET:CE	2:B:23[B]:CYS:SG	2.77	0.72
2:L:149:LYS:HG3	6:L:556:HOH:O	1.90	0.70
1:A:148:GLU:OE1	6:A:301:HOH:O	2.10	0.69
2:B:4:MET:HE3	2:B:23[B]:CYS:SG	2.37	0.65
1:A:20:LEU:HG	1:A:82:MET:CE	2.27	0.65
2:B:18:ARG:HD2	6:B:421:HOH:O	1.99	0.62
2:L:147:GLN:HG3	2:L:154:LEU:HD21	1.82	0.61
2:B:4:MET:HE2	2:B:23[B]:CYS:SG	2.42	0.60
1:A:192:GLN:HE21	1:A:192:GLN:CA	2.09	0.60
1:A:20:LEU:HG	1:A:82:MET:HE2	1.84	0.59
1:A:19:ARG:HD2	6:A:386:HOH:O	2.03	0.59
2:L:22:THR:HG21	2:L:24:ARG:HH21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:82:MET:HB3	1:A:82(C):LEU:HD21	1.88	0.56
2:B:25:ALA:HB3	2:B:69:THR:HB	1.89	0.55
1:A:47:TRP:CE3	2:B:95:PRO:HB3	2.43	0.54
2:L:40:PRO:HB3	2:L:165:GLU:HG3	1.92	0.52
1:H:47:TRP:HZ2	1:H:50:ARG:HG2	1.74	0.52
2:L:90:GLN:HE22	2:L:93:THR:H	1.58	0.51
2:B:100:GLN:CG	6:B:480:HOH:O	2.59	0.51
1:A:19:ARG:CD	6:A:386:HOH:O	2.59	0.50
2:B:147:GLN:HG3	2:B:154:LEU:HD21	1.93	0.50
2:B:147:GLN:HG3	2:B:154:LEU:CD2	2.42	0.49
2:B:199:GLN:NE2	6:B:407:HOH:O	2.46	0.47
1:H:12:VAL:HG11	1:H:82(C):LEU:HD13	1.97	0.47
2:B:4:MET:HB3	2:B:23[B]:CYS:SG	2.56	0.46
1:H:47:TRP:CE3	2:L:95:PRO:HB3	2.51	0.45
1:H:47:TRP:CZ2	1:H:50:ARG:HG2	2.51	0.45
1:A:169:VAL:CG1	2:B:160:GLN:NE2	2.80	0.45
2:B:146:VAL:HG13	2:B:194[A]:CYS:SG	2.57	0.44
1:H:178:LEU:C	1:H:178:LEU:HD12	2.38	0.43
1:A:192:GLN:CA	1:A:192:GLN:NE2	2.81	0.43
1:A:47:TRP:CZ3	2:B:95:PRO:HB3	2.54	0.42
1:A:51:ILE:O	1:A:52(A):PRO:HD3	2.18	0.42
1:A:67:PHE:HA	1:A:81:GLN:O	2.20	0.42
1:A:127:SER:HB3	6:B:557:HOH:O	2.19	0.42
2:L:147:GLN:CG	2:L:154:LEU:HD21	2.48	0.42
1:H:212:GLU:HB2	1:H:213:PRO:HD2	2.02	0.41
2:L:125:LEU:O	2:L:183:LYS:HD2	2.20	0.41
2:L:124:GLN:HG2	2:L:129:THR:O	2.21	0.41
1:H:214:LYS:CE	6:H:415:HOH:O	2.70	0.40
2:L:30:PRO:HB2	2:L:30(B):SER:OG	2.22	0.40

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	216/236 (92%)	212 (98%)	4 (2%)	0	100	100
1	H	216/236 (92%)	211 (98%)	5 (2%)	0	100	100
2	B	217/218 (100%)	212 (98%)	5 (2%)	0	100	100
2	L	218/218 (100%)	215 (99%)	3 (1%)	0	100	100
All	All	867/908 (96%)	850 (98%)	17 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	182/196 (93%)	174 (96%)	8 (4%)	24	13
1	H	182/196 (93%)	173 (95%)	9 (5%)	21	10
2	B	193/192 (100%)	186 (96%)	7 (4%)	30	20
2	L	194/192 (101%)	187 (96%)	7 (4%)	30	20
All	All	751/776 (97%)	720 (96%)	31 (4%)	25	15

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	1	GLU
1	H	25	SER
1	H	50	ARG
1	H	98	PHE
1	H	100	PHE
1	H	135	THR
1	H	159	LEU
1	H	161	SER
1	H	178	LEU
2	L	12	SER
2	L	24	ARG
2	L	28	ASP
2	L	69	THR

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Mol	Chain	Res	Type
2	L	70	ASP
2	L	90	GLN
2	L	154	LEU
1	A	1	GLU
1	A	7	SER
1	A	98	PHE
1	A	100	PHE
1	A	127	SER
1	A	159	LEU
1	A	178	LEU
1	A	192	GLN
2	B	1	ASP
2	B	28	ASP
2	B	30(A)	ARG
2	B	90	GLN
2	B	100	GLN
2	B	107	LYS
2	B	154	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	39	GLN
1	H	171	GLN
1	H	192	GLN
2	L	38	GLN
2	L	90	GLN
1	A	39	GLN
1	A	171	GLN
1	A	192	GLN
2	B	38	GLN
2	B	90	GLN
2	B	100	GLN
2	B	199	GLN

5.3.3 RNA ⓘ

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 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 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	$\# Z > 2$
5	EDO	B	301	-	3,3,3	0.81	0	2,2,2	0.36	0
5	EDO	B	302	-	3,3,3	0.47	0	2,2,2	0.43	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
5	EDO	B	301	-	-	0/1/1/1	-
5	EDO	B	302	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	B	302	EDO	O1-C1-C2-O2

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	218/236 (92%)	0.22	7 (3%)	50	57	11, 28, 48, 66	2 (0%)
1	H	217/236 (91%)	0.16	4 (1%)	67	73	11, 28, 46, 61	3 (1%)
2	B	217/218 (99%)	0.03	7 (3%)	50	57	13, 24, 43, 75	2 (0%)
2	L	218/218 (100%)	0.11	5 (2%)	61	67	10, 27, 50, 73	2 (0%)
All	All	870/908 (95%)	0.13	23 (2%)	57	63	10, 27, 47, 75	9 (1%)

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	30	PRO	4.0
2	L	67	SER	3.9
2	B	1	ASP	3.6
1	A	133	GLY	3.1
2	L	68	GLY	3.1
1	A	132	SER	3.1
1	H	215	SER	3.0
2	B	30(A)	ARG	3.0
2	B	29	ILE	2.9
2	L	69	THR	2.9
1	H	127	SER	2.9
1	H	133	GLY	2.8
1	H	134	GLY	2.5
2	B	213	GLU	2.5
1	A	30	LYS	2.4
2	L	30(A)	ARG	2.4
1	A	215	SER	2.4
1	A	191	THR	2.3
2	L	214	CYS	2.3
1	A	134	GLY	2.3
1	A	214	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
2	B	127	SER	2.2
2	B	28	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(\AA^2)	Q<0.9
5	EDO	B	302	4/4	0.85	0.16	45,53,56,57	0
5	EDO	B	301	4/4	0.94	0.10	21,34,34,36	0
4	NA	L	302	1/1	0.94	0.06	24,24,24,24	0
3	CL	B	303	1/1	0.99	0.04	24,24,24,24	0
3	CL	L	301	1/1	0.99	0.04	27,27,27,27	0

6.5 Other polymers [i](#)

There are no such residues in this entry.