



Full wwPDB X-ray Structure Validation Report ⓘ

Dec 17, 2023 – 07:36 pm GMT

PDB ID : 3ZBO
Title : A new family of proteins related to the HEAT-like repeat DNA glycosylases with affinity for branched DNA structures
Authors : Backe, P.H.; Simm, R.; Laerdahl, J.K.; Dalhus, B.; Fagerlund, A.; Okstad, O.A.; Rognes, T.; Alseth, I.; Kolsto, A.-B.; Bjoras, M.
Deposited on : 2012-11-12
Resolution : 1.58 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
Xtriage (Phenix) : 1.13
EDS : 2.36
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

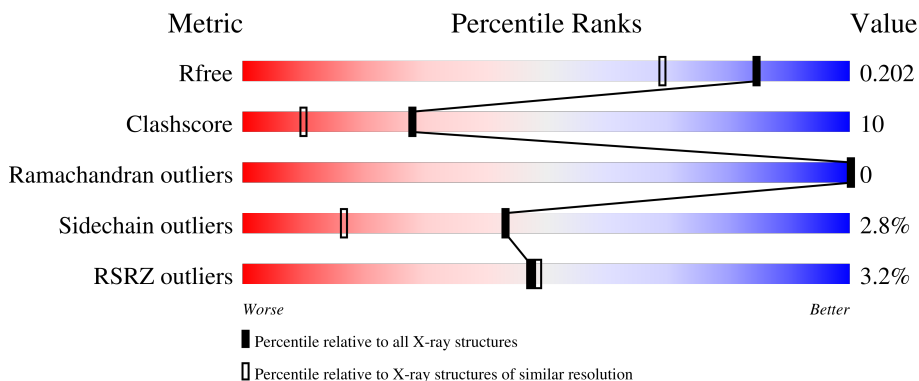
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION


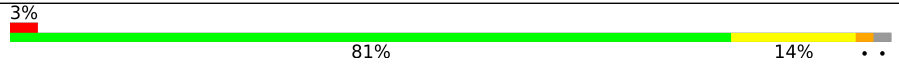
The reported resolution of this entry is 1.58 Å.

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}	130704	5534 (1.60-1.56)
Clashscore	141614	5861 (1.60-1.56)
Ramachandran outliers	138981	5708 (1.60-1.56)
Sidechain outliers	138945	5703 (1.60-1.56)
RSRZ outliers	127900	5431 (1.60-1.56)

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	241	 3% 81% 15% ..
1	B	241	 3% 81% 14% ..

2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 4529 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 ALKF.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	236	1914	1216	320	364	14	0	9	0
1	B	235	1952	1245	325	368	14	0	18	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q81BA8
A	-4	SER	-	expression tag	UNP Q81BA8
A	-3	HIS	-	expression tag	UNP Q81BA8
A	-2	MET	-	expression tag	UNP Q81BA8
A	-1	ALA	-	expression tag	UNP Q81BA8
A	0	SER	-	expression tag	UNP Q81BA8
B	-5	GLY	-	expression tag	UNP Q81BA8
B	-4	SER	-	expression tag	UNP Q81BA8
B	-3	HIS	-	expression tag	UNP Q81BA8
B	-2	MET	-	expression tag	UNP Q81BA8
B	-1	ALA	-	expression tag	UNP Q81BA8
B	0	SER	-	expression tag	UNP Q81BA8

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Cl	0	0
			1	1		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	369	Total	O	0	0
			369	369		

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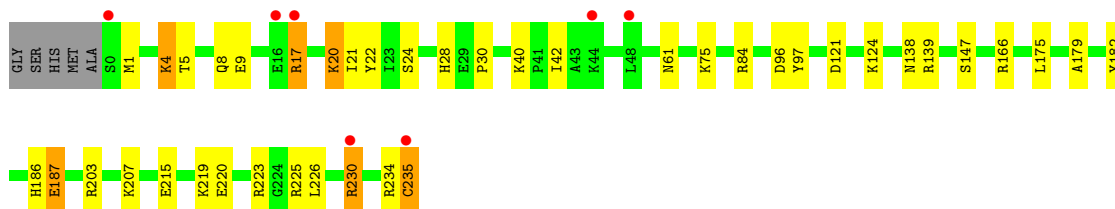
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	293	Total 293	O 293	0	0

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.

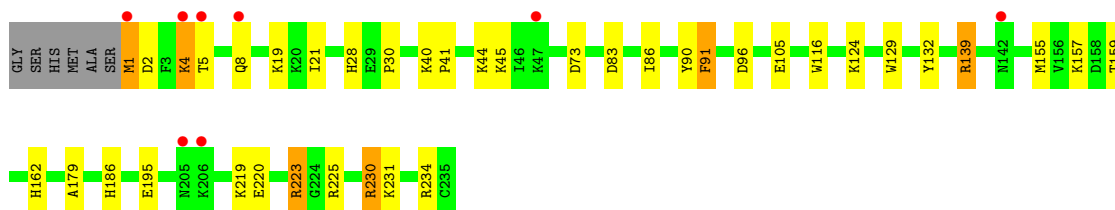
- Molecule 1: ALKF

Chain A: 



- Molecule 1: ALKF

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	52.92Å 87.16Å 112.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	25.47 – 1.58 25.47 – 1.58	Depositor EDS
% Data completeness (in resolution range)	99.6 (25.47-1.58) 99.5 (25.47-1.58)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.69 (at 1.57Å)	Xtrriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.165 , 0.205 0.163 , 0.202	Depositor DCC
R_{free} test set	3629 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	18.6	Xtrriage
Anisotropy	0.017	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 44.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	4529	wwPDB-VP
Average B, all atoms (Å ²)	21.0	wwPDB-VP

Xtrriage'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:
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	1.35	6/1975 (0.3%)	1.24	16/2651 (0.6%)
1	B	1.25	3/2041 (0.1%)	1.21	12/2737 (0.4%)
All	All	1.30	9/4016 (0.2%)	1.22	28/5388 (0.5%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	187	GLU	CD-OE1	9.80	1.36	1.25
1	A	187	GLU	CG-CD	7.71	1.63	1.51
1	A	235	CYS	CA-CB	5.63	1.66	1.53
1	A	147	SER	CA-CB	5.51	1.61	1.52
1	B	234	ARG	CZ-NH2	5.47	1.40	1.33
1	A	182	TYR	CD1-CE1	5.39	1.47	1.39
1	B	129	TRP	CZ3-CH2	5.23	1.48	1.40
1	B	83	ASP	CG-OD2	5.09	1.37	1.25
1	A	235	CYS	CB-SG	-5.04	1.73	1.81

All (28) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	235	CYS	CA-CB-SG	8.97	130.14	114.00
1	A	235	CYS	CB-CA-C	8.64	127.67	110.40
1	B	90	TYR	CB-CG-CD1	-8.42	115.95	121.00
1	B	19	LYS	CD-CE-NZ	-7.35	94.80	111.70
1	A	96	ASP	CB-CG-OD2	-7.34	111.69	118.30
1	B	96	ASP	CB-CG-OD1	7.09	124.68	118.30
1	A	84	ARG	NE-CZ-NH1	7.08	123.84	120.30
1	B	223[A]	ARG	NE-CZ-NH1	6.79	123.69	120.30
1	B	223[B]	ARG	NE-CZ-NH1	6.79	123.69	120.30
1	B	132	TYR	CB-CG-CD2	-6.70	116.98	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	22	TYR	CB-CG-CD2	-6.61	117.04	121.00
1	A	234	ARG	NE-CZ-NH2	-6.26	117.17	120.30
1	A	225	ARG	NE-CZ-NH1	6.23	123.41	120.30
1	A	182	TYR	CB-CG-CD2	-6.04	117.38	121.00
1	B	91	PHE	CB-CG-CD2	-6.00	116.60	120.80
1	A	203	ARG	NE-CZ-NH1	-5.93	117.33	120.30
1	A	223	ARG	NE-CZ-NH1	5.58	123.09	120.30
1	A	166	ARG	NE-CZ-NH2	-5.57	117.51	120.30
1	B	155[A]	MET	CG-SD-CE	5.48	108.96	100.20
1	B	155[B]	MET	CG-SD-CE	5.48	108.96	100.20
1	A	124	LYS	CD-CE-NZ	-5.36	99.37	111.70
1	A	175	LEU	CB-CG-CD1	-5.33	101.94	111.00
1	B	223[A]	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	B	223[B]	ARG	NE-CZ-NH2	-5.30	117.65	120.30
1	A	97	TYR	CB-CG-CD2	-5.23	117.86	121.00
1	A	121	ASP	CB-CG-OD1	5.16	122.94	118.30
1	A	182	TYR	CZ-CE2-CD2	-5.14	115.18	119.80
1	B	73	ASP	CB-CG-OD1	5.03	122.83	118.30

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	1914	0	1941	34	0
1	B	1952	0	2003	47	1
2	A	1	0	0	0	0
3	A	369	0	0	12	1
3	B	293	0	0	9	0
All	All	4529	0	3944	77	1

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 10.

All (77) 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:B:223[B]:ARG:NH1	1:B:225[B]:ARG:NH1	1.64	1.44
1:B:223[B]:ARG:NH2	1:B:225[B]:ARG:NH2	1.68	1.41
1:B:223[B]:ARG:CZ	1:B:225[B]:ARG:NH1	1.85	1.39
1:B:223[B]:ARG:NH2	1:B:225[B]:ARG:CZ	1.87	1.36
1:A:40[B]:LYS:HE2	1:A:235:CYS:OXT	1.52	1.09
1:B:223[B]:ARG:CZ	1:B:225[B]:ARG:CZ	2.26	1.09
1:B:223[B]:ARG:HH22	1:B:225[B]:ARG:NH2	1.59	1.00
1:B:223[B]:ARG:NH2	1:B:225[B]:ARG:NH1	2.01	1.00
1:B:223[B]:ARG:HH22	1:B:225[B]:ARG:HH22	1.10	0.98
1:B:219[A]:LYS:HE2	1:B:223[A]:ARG:NH2	1.79	0.96
1:A:42:ILE:HG13	3:A:2089:HOH:O	1.66	0.93
1:B:223[B]:ARG:NH2	1:B:225[B]:ARG:HH22	1.52	0.93
1:B:223[B]:ARG:HH21	1:B:225[B]:ARG:NH2	1.64	0.92
1:B:219[A]:LYS:CE	1:B:223[A]:ARG:NH2	2.42	0.82
1:B:28:HIS:HD2	3:B:2060:HOH:O	1.64	0.79
1:B:219[A]:LYS:HG2	1:B:223[A]:ARG:HH21	1.47	0.79
1:B:219[A]:LYS:CG	1:B:223[A]:ARG:HH21	1.98	0.77
1:A:187:GLU:HG3	3:A:2133:HOH:O	1.88	0.71
1:B:219[B]:LYS:HD2	3:B:2277:HOH:O	1.91	0.71
1:B:157:LYS:HD2	1:B:195[A]:GLU:HG2	1.76	0.68
1:B:219[A]:LYS:HE2	1:B:223[A]:ARG:HH22	1.61	0.66
1:B:186:HIS:HE1	3:B:2239:HOH:O	1.78	0.66
1:A:179:ALA:O	1:A:186:HIS:HD2	1.78	0.66
1:A:230[A]:ARG:HG2	3:A:2287:HOH:O	1.96	0.65
1:A:226:LEU:HD22	1:B:21[A]:ILE:CD1	2.26	0.65
1:A:215[B]:GLU:HG3	1:A:219:LYS:HE3	1.78	0.64
1:B:2:ASP:OD1	1:B:5:THR:HG23	1.97	0.64
1:B:179:ALA:O	1:B:186:HIS:HD2	1.80	0.64
1:A:17:ARG:HA	1:A:20:LYS:HE3	1.81	0.63
1:B:230:ARG:HD3	3:B:2235:HOH:O	1.98	0.63
1:B:219[A]:LYS:CE	1:B:223[A]:ARG:HH22	2.11	0.62
1:B:219[A]:LYS:HG3	3:B:2282:HOH:O	2.00	0.61
1:A:220:GLU:OE2	1:A:230[A]:ARG:NH1	2.34	0.60
1:A:215[A]:GLU:HG2	1:A:219:LYS:HE3	1.84	0.60
1:A:4:LYS:HD2	3:A:2007:HOH:O	2.02	0.59
1:A:186:HIS:HE1	3:A:2291:HOH:O	1.85	0.59
1:B:139:ARG:CG	1:B:139:ARG:HH11	2.16	0.58
1:B:219[A]:LYS:CD	1:B:223[A]:ARG:HH21	2.16	0.58
1:A:219:LYS:HD2	3:A:2333:HOH:O	2.03	0.57
1:B:139:ARG:HH11	1:B:139:ARG:HG2	1.69	0.57
1:B:4:LYS:O	1:B:8[A]:GLN:HG3	2.05	0.57
1:A:1:MET:HE3	1:A:5:THR:HG22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:223[B]:ARG:HH2	1:B:225[B]:ARG:NH1	1.93	0.57
1:A:17:ARG:HG3	3:A:2042:HOH:O	2.06	0.54
1:A:207[A]:LYS:HD2	3:A:2147:HOH:O	2.08	0.54
1:B:139:ARG:HD3	3:B:2182:HOH:O	2.07	0.54
1:B:159:THR:HB	1:B:162[B]:HIS:CE1	2.42	0.53
1:A:219:LYS:HE2	3:A:2336:HOH:O	2.10	0.51
1:A:1:MET:CE	1:A:5:THR:HG22	2.41	0.50
1:A:20:LYS:HG2	1:A:21:ILE:N	2.27	0.49
1:A:5:THR:O	1:A:9:GLU:HG3	2.12	0.49
1:A:17:ARG:O	1:A:20:LYS:HE3	2.13	0.48
1:B:1:MET:HE3	1:B:45:LYS:HD2	1.95	0.48
1:B:219[A]:LYS:HG2	3:B:2283:HOH:O	2.14	0.47
1:A:179:ALA:O	1:A:186:HIS:CD2	2.65	0.47
1:A:28:HIS:HE1	3:A:2075:HOH:O	1.98	0.47
1:A:75:LYS:NZ	3:A:2151:HOH:O	2.48	0.46
1:A:207[B]:LYS:HB3	1:A:207[B]:LYS:HE3	1.74	0.44
1:B:86:ILE:HG12	1:B:124[A]:LYS:HG2	2.00	0.44
1:B:219[A]:LYS:CD	1:B:223[A]:ARG:NH2	2.78	0.44
1:A:226:LEU:HD22	1:B:21[A]:ILE:HD12	2.00	0.44
1:A:138[B]:ASN:OD1	1:A:139:ARG:HG2	2.17	0.43
1:B:105[B]:GLU:OE2	1:B:231:LYS:NZ	2.52	0.43
1:B:116:TRP:CD1	1:B:124[B]:LYS:HD3	2.54	0.43
1:A:17:ARG:HG3	1:A:17:ARG:HH11	1.83	0.43
1:A:8:GLN:HG3	3:A:2014:HOH:O	2.20	0.42
1:B:30:PRO:HD2	3:B:2057:HOH:O	2.21	0.41
1:A:226:LEU:HD22	1:B:21[A]:ILE:HD11	2.01	0.41
1:B:40:LYS:HB2	1:B:41:PRO:HD3	2.02	0.41
1:B:105[A]:GLU:CD	3:B:2147:HOH:O	2.58	0.41
1:A:17:ARG:CA	1:A:20:LYS:HE3	2.49	0.41
1:A:30:PRO:O	1:A:61:ASN:HA	2.21	0.41
1:A:226:LEU:CD2	1:B:21[A]:ILE:HD12	2.51	0.41
1:A:215[A]:GLU:CG	1:A:219:LYS:HE3	2.48	0.40
1:B:86:ILE:HG23	1:B:124[A]:LYS:HE2	2.03	0.40
1:B:220:GLU:OE2	1:B:223[B]:ARG:NH1	2.53	0.40

All (1) 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)
1:B:162[B]:HIS:CD2	3:A:2015:HOH:O[2_454]	1.98	0.22

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	243/241 (101%)	236 (97%)	7 (3%)	0	100	100
1	B	251/241 (104%)	243 (97%)	8 (3%)	0	100	100
All	All	494/482 (102%)	479 (97%)	15 (3%)	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	A	209/203 (103%)	203 (97%)	6 (3%)	42	16
1	B	217/203 (107%)	211 (97%)	6 (3%)	43	17
All	All	426/406 (105%)	414 (97%)	12 (3%)	43	17

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	LYS
1	A	17	ARG
1	A	20	LYS
1	A	24	SER
1	A	230[A]	ARG
1	A	230[B]	ARG
1	B	1	MET
1	B	4	LYS

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Mol	Chain	Res	Type
1	B	44	LYS
1	B	91	PHE
1	B	139	ARG
1	B	230	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	28	HIS
1	A	107	ASN
1	A	186	HIS
1	A	218	GLN
1	B	186	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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

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 [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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	236/241 (97%)	-0.19	7 (2%) 50 51	11, 17, 31, 46	0
1	B	235/241 (97%)	-0.12	8 (3%) 45 46	12, 18, 33, 51	0
All	All	471/482 (97%)	-0.15	15 (3%) 47 49	11, 18, 32, 51	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	205	ASN	4.6
1	A	235	CYS	3.1
1	A	0	SER	2.9
1	B	206	LYS	2.8
1	B	1	MET	2.5
1	B	5	THR	2.5
1	A	44	LYS	2.4
1	A	17	ARG	2.3
1	A	230[A]	ARG	2.3
1	B	142	ASN	2.3
1	B	8[A]	GLN	2.1
1	A	48	LEU	2.1
1	B	4	LYS	2.1
1	B	47	LYS	2.0
1	A	16	GLU	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
2	CL	A	1236	1/1	1.00	0.04	16,16,16,16	0

6.5 Other polymers [i](#)

There are no such residues in this entry.