



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 11:20 am GMT

PDB ID : 1QQ6
Title : STRUCTURE OF L-2-HALOACID DEHALOGENASE FROM XANTHOBACTER AUTOTROPHICUS WITH CHLOROACETIC ACID COVALENTLY BOUND
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Deposited on : 1999-06-11
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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	trunk28620
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	recalc28949

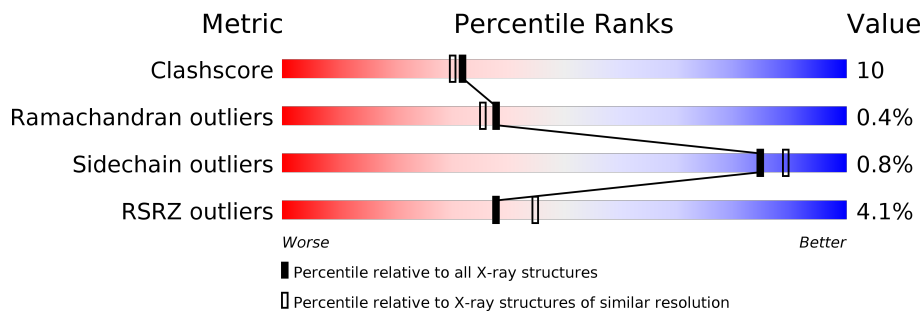
1 Overall quality at a glance

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))
Clashscore	112137	4788 (2.10-2.10)
Ramachandran outliers	110173	4740 (2.10-2.10)
Sidechain outliers	110143	4741 (2.10-2.10)
RSRZ outliers	101464	4275 (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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	253	<div> <div>5%</div> <div> <div></div> <div>81%</div> <div>15%</div> <div>..</div> </div> </div>
1	B	253	<div> <div>3%</div> <div> <div></div> <div>82%</div> <div>15%</div> <div>.</div> </div> </div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 4518 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 PROTEIN (L-2-HALOACID DEHALOGENASE).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	245	Total	C	N	O	S	0	13	0
			1966	1261	328	367	10			
1	B	245	Total	C	N	O	S	0	23	0
			2034	1303	341	380	10			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	60	SER	GLY	CONFLICT	UNP Q60099
A	84	ASP	GLY	CONFLICT	UNP Q60099
B	60	SER	GLY	CONFLICT	UNP Q60099
B	84	ASP	GLY	CONFLICT	UNP Q60099

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

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

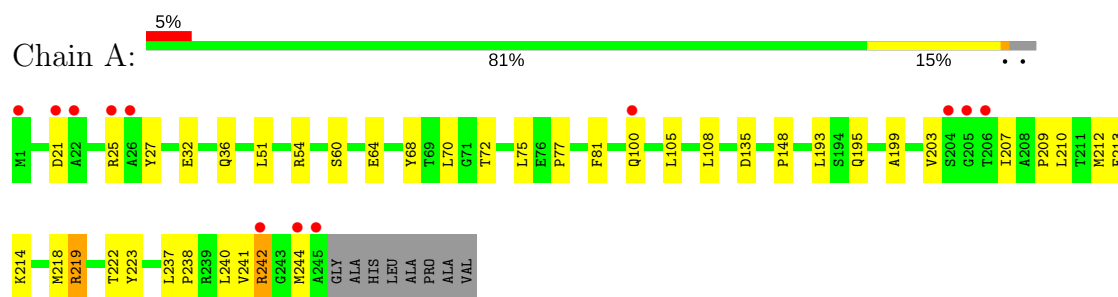
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	260	Total	O	0	6
			262	262		
3	B	251	Total	O	0	6
			254	254		

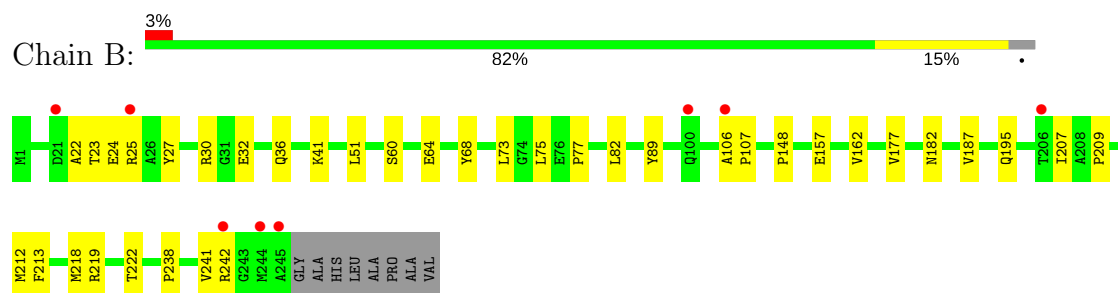
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: PROTEIN (L-2-HALOACID DEHALOGENASE)



• Molecule 1: PROTEIN (L-2-HALOACID DEHALOGENASE)



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	56.92Å 83.56Å 91.06Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.10 24.56 – 2.09	Depositor EDS
% Data completeness (in resolution range)	85.3 (20.00-2.10) 85.0 (24.56-2.09)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.41 (at 2.10Å)	Xtriage
Refinement program	CNS 0.5	Depositor
R, R_{free}	0.171 , 0.219 0.190 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	18.0	Xtriage
Anisotropy	0.320	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 63.8	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	4518	wwPDB-VP
Average B, all atoms (Å ²)	23.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 64.89 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 7.7154e-06. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: ASB, 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	0.36	0/2024	0.54	0/2751
1	B	0.36	0/2102	0.51	0/2855
All	All	0.36	0/4126	0.52	0/5606

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	A	1966	0	1957	50	0
1	B	2034	0	2020	46	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	262	0	0	4	0
3	B	254	0	0	5	0
All	All	4518	0	3977	81	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 10.

All (81) 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:212[A]:MET:HG2	1:B:212[A]:MET:HG2	1.48	0.96
1:A:238:PRO:O	1:A:242:ARG:HD3	1.72	0.88
1:A:51:LEU:HD23	1:B:148:PRO:HD2	1.75	0.69
1:A:210[A]:LEU:HG	1:A:214:LYS:HE3	1.75	0.69
1:A:25[B]:ARG:NH1	1:A:25[B]:ARG:HB3	2.09	0.67
1:A:54:ARG:NE	1:B:182:ASN:OD1	2.27	0.67
1:B:27[B]:TYR:HD2	1:B:75:LEU:HD11	1.59	0.67
1:B:30[A]:ARG:HD3	1:B:73:LEU:HD13	1.79	0.64
1:A:195:GLN:HG2	1:A:219:ARG:HH12	1.61	0.64
1:A:72:THR:HA	1:B:219:ARG:HH12	1.63	0.64
1:A:60:SER:O	1:A:64:GLU:HG3	1.98	0.63
1:B:219:ARG:HH11	1:B:219:ARG:HG3	1.67	0.59
1:A:210[A]:LEU:O	1:A:214:LYS:HG3	2.02	0.59
1:A:72:THR:HG22	1:B:219:ARG:NH1	2.19	0.58
1:B:23:THR:C	1:B:25[B]:ARG:H	2.08	0.58
1:B:77:PRO:HG2	1:B:82:LEU:HD21	1.85	0.58
1:A:32:GLU:O	1:A:36:GLN:HG2	2.04	0.57
1:A:32:GLU:OE2	1:A:210[B]:LEU:HB2	2.04	0.57
1:B:60:SER:O	1:B:64:GLU:HG3	2.04	0.57
1:A:100:GLN:HB3	3:A:735:HOH:O	2.06	0.56
1:A:222[B]:THR:HG23	1:B:68:TYR:HB2	1.88	0.56
1:B:219:ARG:HD2	3:B:702:HOH:O	2.06	0.55
1:B:157:GLU:HG3	1:B:162:VAL:O	2.06	0.55
1:B:238:PRO:O	1:B:242:ARG:HG2	2.05	0.55
1:A:148:PRO:HD2	1:B:51:LEU:HD23	1.87	0.55
1:A:212[B]:MET:CE	1:B:213[B]:PHE:HZ	2.20	0.54
1:A:222[B]:THR:HG22	3:A:356:HOH:O	2.08	0.54
1:A:212[B]:MET:HE2	1:B:213[B]:PHE:HZ	1.73	0.53
1:B:27[A]:TYR:CE2	1:B:75:LEU:HD13	2.44	0.53
1:A:36:GLN:HB3	1:A:213[B]:PHE:CG	2.44	0.52
1:B:241:VAL:CG1	1:B:242:ARG:HH21	2.23	0.52
1:A:195:GLN:HG2	1:A:219:ARG:NH1	2.24	0.51
1:A:72:THR:HA	1:B:219:ARG:NH1	2.26	0.51
1:B:25[B]:ARG:HG2	1:B:25[B]:ARG:HH11	1.76	0.50
1:A:25[B]:ARG:HB3	1:A:25[B]:ARG:HH11	1.76	0.50
1:B:36:GLN:HB3	1:B:213[B]:PHE:CG	2.46	0.50
1:A:241:VAL:O	1:A:244:MET:HB3	2.12	0.49
1:A:21:ASP:O	1:A:25[A]:ARG:HG2	2.12	0.49
1:A:70:LEU:HD12	1:A:77:PRO:HG3	1.93	0.49
1:A:27:TYR:HD2	1:A:75:LEU:HD11	1.78	0.48
1:B:219:ARG:NH1	1:B:219:ARG:HG3	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:PRO:HD2	3:A:654:HOH:O	2.12	0.47
1:A:199:ALA:O	1:A:203:VAL:HG23	2.15	0.47
1:A:68:TYR:HB2	1:B:222[B]:THR:HG23	1.97	0.46
1:A:212[B]:MET:HE2	1:B:213[B]:PHE:CZ	2.50	0.46
1:A:219:ARG:HG3	1:A:219:ARG:NH1	2.31	0.46
1:B:242:ARG:N	1:B:242:ARG:HE	2.13	0.46
1:A:36:GLN:HB3	1:A:213[B]:PHE:CD2	2.51	0.46
1:B:177:VAL:HG13	1:B:187:VAL:HG11	1.97	0.46
1:B:32:GLU:O	1:B:36:GLN:HG2	2.15	0.46
1:B:23:THR:C	1:B:25[B]:ARG:N	2.70	0.45
1:B:195:GLN:HG2	1:B:219:ARG:HE	1.82	0.45
1:B:219:ARG:CD	3:B:702:HOH:O	2.66	0.44
1:B:41[A]:LYS:HE3	1:B:68:TYR:CE1	2.52	0.44
1:B:30[B]:ARG:HA	3:B:387:HOH:O	2.18	0.44
1:A:214:LYS:HA	1:A:218[B]:MET:HG2	1.99	0.43
1:B:218[B]:MET:HE1	3:B:400:HOH:O	2.19	0.43
1:A:222[B]:THR:CG2	1:B:68:TYR:HB2	2.49	0.43
1:B:22:ALA:O	1:B:25[B]:ARG:HB2	2.18	0.43
1:A:212[B]:MET:HE3	1:A:212[B]:MET:HA	2.01	0.43
1:A:240:LEU:O	1:A:244:MET:HB2	2.19	0.43
1:B:36:GLN:HB3	1:B:213[B]:PHE:CD2	2.53	0.43
1:A:105:LEU:O	1:A:108:LEU:HB2	2.19	0.42
1:B:207:ILE:HG21	1:B:212[B]:MET:SD	2.59	0.42
1:A:203:VAL:O	1:A:203:VAL:HG12	2.19	0.42
1:B:41[A]:LYS:HE3	1:B:68:TYR:CZ	2.55	0.42
1:A:195:GLN:NE2	3:A:761:HOH:O	2.52	0.42
1:A:207:ILE:HG21	1:A:212[B]:MET:SD	2.60	0.42
1:A:212[B]:MET:CE	1:A:212[B]:MET:HA	2.50	0.42
1:B:106:ALA:N	1:B:107:PRO:CD	2.82	0.42
1:B:23:THR:O	1:B:25[B]:ARG:N	2.54	0.41
1:A:81:PHE:CD1	1:A:81:PHE:C	2.93	0.41
1:A:203:VAL:CG2	3:B:544:HOH:O	2.68	0.40
1:A:237:LEU:HB2	1:A:238:PRO:HD3	2.03	0.40
1:A:209[B]:PRO:HG3	1:B:207:ILE:O	2.21	0.40
1:B:25[B]:ARG:HG2	1:B:25[B]:ARG:NH1	2.35	0.40
1:B:30[B]:ARG:HD3	1:B:30[B]:ARG:HA	1.88	0.40
1:A:193:LEU:O	1:A:219:ARG:NH2	2.54	0.40
1:A:213[B]:PHE:CE2	1:B:212[B]:MET:HE2	2.57	0.40
1:A:223:TYR:C	1:A:223:TYR:CD1	2.94	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	255/253 (101%)	248 (97%)	7 (3%)	0	100	100
1	B	265/253 (105%)	251 (95%)	10 (4%)	4 (2%)	12	6
All	All	520/506 (103%)	499 (96%)	17 (3%)	4 (1%)	38	17

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	24[A]	GLU
1	B	24[B]	GLU
1	B	209[A]	PRO
1	B	209[B]	PRO

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	204/196 (104%)	202 (99%)	2 (1%)	80	85
1	B	211/196 (108%)	210 (100%)	1 (0%)	91	94
All	All	415/392 (106%)	412 (99%)	3 (1%)	85	91

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	219	ARG
1	A	242	ARG

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Mol	Chain	Res	Type
1	B	89	TYR

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

Mol	Chain	Res	Type
1	A	17	GLN
1	A	36	GLN
1	A	100	GLN
1	A	195	GLN
1	B	17	GLN
1	B	36	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	ASB	A	8	1	8,11,12	2.18	3 (37%)	8,13,15	3.48	4 (50%)
1	ASB	B	8	1	8,11,12	2.22	3 (37%)	8,13,15	3.46	4 (50%)

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	ASB	A	8	1	-	0/7/11/13	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	ASB	B	8	1	-	0/7/11/13	0/0/0/0

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	8	ASB	CB-CG	-4.42	1.41	1.50
1	B	8	ASB	CB-CG	-4.03	1.42	1.50
1	B	8	ASB	OD1-C2	-3.08	1.39	1.45
1	A	8	ASB	OD1-C2	-2.26	1.40	1.45
1	B	8	ASB	CA-C	2.92	1.54	1.50
1	A	8	ASB	CA-C	3.13	1.54	1.50

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	8	ASB	OD1-CG-OD2	-4.31	112.84	123.55
1	A	8	ASB	OD1-CG-OD2	-4.02	113.56	123.55
1	B	8	ASB	CA-CB-CG	2.11	117.08	112.88
1	A	8	ASB	CA-CB-CG	2.21	117.28	112.88
1	A	8	ASB	OD2-CG-CB	3.33	132.22	124.70
1	B	8	ASB	OD2-CG-CB	3.62	132.87	124.70
1	B	8	ASB	C2-OD1-CG	7.18	129.55	116.45
1	A	8	ASB	C2-OD1-CG	7.54	130.22	116.45

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are 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

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	244/253 (96%)	-0.17	12 (4%) 30 37	7, 19, 37, 68	0
1	B	244/253 (96%)	-0.12	8 (3%) 47 54	8, 20, 39, 78	0
All	All	488/506 (96%)	-0.14	20 (4%) 38 45	7, 19, 39, 78	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	245	ALA	8.1
1	A	245	ALA	4.8
1	B	244	MET	4.5
1	B	206	THR	4.3
1	A	244	MET	4.3
1	A	206	THR	3.8
1	B	242	ARG	3.5
1	A	25[A]	ARG	3.4
1	B	25[A]	ARG	3.4
1	A	205	GLY	3.1
1	A	242	ARG	2.9
1	A	21	ASP	2.5
1	B	100[A]	GLN	2.5
1	A	22	ALA	2.5
1	B	106	ALA	2.2
1	A	1	MET	2.1
1	A	26	ALA	2.1
1	A	100	GLN	2.1
1	A	204	SER	2.0
1	B	21	ASP	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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
1	ASB	A	8	12/13	0.98	0.12	-	14,15,17,18	0
1	ASB	B	8	12/13	0.97	0.14	-	14,15,16,17	0

6.3 Carbohydrates [i](#)

There are no carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	CL	A	1001	1/1	0.97	0.10	0.07	16,16,16,16	0
2	CL	B	1002	1/1	0.99	0.07	-1.27	12,12,12,12	0

6.5 Other polymers [i](#)

There are no such residues in this entry.