



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 4, 2017 – 06:34 PM EDT

PDB ID : 2A48
Title : Crystal structure of amFP486 E150Q
Authors : Henderson, J.N.; Remington, S.J.
Deposited on : unknown
Resolution : 2.00 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 : rb-20030345
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) : rb-20030345

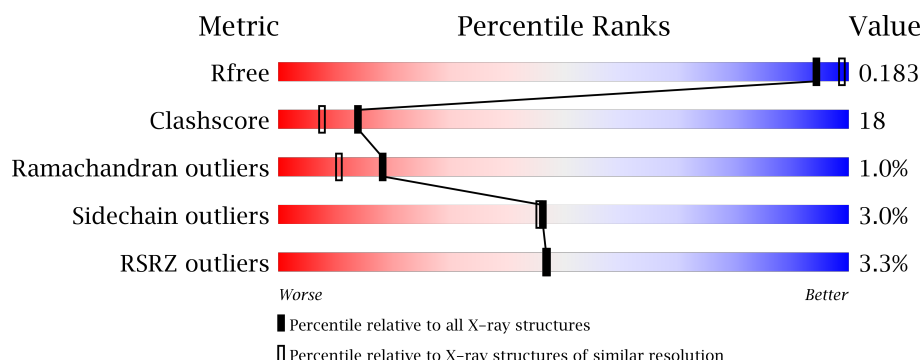
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	100719	6609 (2.00-2.00)
Clashscore	112137	7775 (2.00-2.00)
Ramachandran outliers	110173	7679 (2.00-2.00)
Sidechain outliers	110143	7678 (2.00-2.00)
RSRZ outliers	101464	6696 (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 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	238	<div> <div>3%</div> <div>59%</div> <div>26%</div> <div>•</div> <div>11%</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	BME	A	250	-	-	-	X
2	BME	A	252	-	-	-	X

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 1719 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 GFP-like fluorescent chromoprotein amFP486.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	213	Total	C	N	O	S	0	4	0
			1635	1042	270	308	15			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-10	MET	-	EXPRESSION TAG	UNP Q9U6Y6
A	-9	ARG	-	EXPRESSION TAG	UNP Q9U6Y6
A	-8	GLY	-	EXPRESSION TAG	UNP Q9U6Y6
A	-7	SER	-	EXPRESSION TAG	UNP Q9U6Y6
A	-6	HIS	-	EXPRESSION TAG	UNP Q9U6Y6
A	-5	HIS	-	EXPRESSION TAG	UNP Q9U6Y6
A	-4	HIS	-	EXPRESSION TAG	UNP Q9U6Y6
A	-3	HIS	-	EXPRESSION TAG	UNP Q9U6Y6
A	-2	HIS	-	EXPRESSION TAG	UNP Q9U6Y6
A	-1	HIS	-	EXPRESSION TAG	UNP Q9U6Y6
A	0	GLY	-	EXPRESSION TAG	UNP Q9U6Y6
A	1	SER	-	EXPRESSION TAG	UNP Q9U6Y6
A	68	CR7	LYS	CHROMOPHORE	UNP Q9U6Y6
A	68	CR7	TYR	CHROMOPHORE	UNP Q9U6Y6
A	68	CR7	GLY	CHROMOPHORE	UNP Q9U6Y6
A	150	GLN	GLU	ENGINEERED	UNP Q9U6Y6

- Molecule 2 is BETA-MERCAPTOETHANOL (three-letter code: BME) (formula: C₂H₆OS).

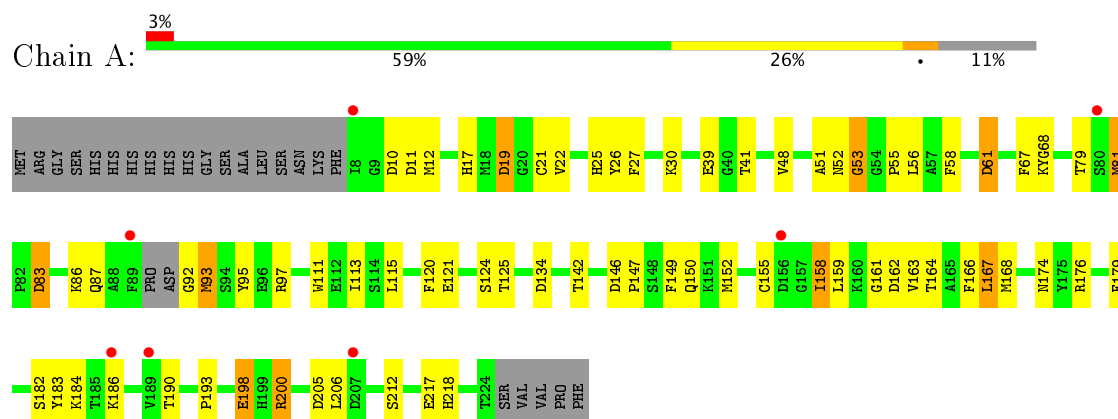


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	O	S	0	0
			4	2	1	1		
2	A	1	Total	C	O	S	0	0
			4	2	1	1		
2	A	1	Total	C	O	S	0	0
			4	2	1	1		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	72	Total	O	0	0
			72	72		

- Molecule 1: GFP-like fluorescent chromoprotein amFP486



4 Data and refinement statistics

Property	Value	Source
Space group	I 41 2 2	Depositor
Cell constants a, b, c, α , β , γ	113.89Å 113.89Å 82.62Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.50 – 2.00 40.27 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.0 (34.50-2.00) 99.6 (40.27-2.00)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.25 (at 2.00Å)	Xtriage
Refinement program	TNT	Depositor
R, R_{free}	0.180 , 0.249 0.194 , 0.183	Depositor DCC
R_{free} test set	1871 reflections (11.29%)	DCC
Wilson B-factor (Å ²)	32.8	Xtriage
Anisotropy	0.138	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 74.4	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	0.96	EDS
Total number of atoms	1719	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.93% 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: CR7, BME

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	0.69	3/1670 (0.2%)	1.24	19/2264 (0.8%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	198	GLU	CD-OE2	5.97	1.32	1.25
1	A	121	GLU	CD-OE2	5.28	1.31	1.25
1	A	39	GLU	CD-OE2	5.08	1.31	1.25

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	162	ASP	CB-CG-OD2	-7.95	111.15	118.30
1	A	146	ASP	CB-CG-OD2	-7.93	111.16	118.30
1	A	205	ASP	CB-CG-OD2	-7.93	111.16	118.30
1	A	10	ASP	CB-CG-OD2	-6.95	112.05	118.30
1	A	10	ASP	CB-CG-OD1	6.82	124.44	118.30
1	A	11	ASP	CB-CG-OD2	-6.76	112.22	118.30
1	A	19	ASP	CB-CG-OD2	-6.62	112.34	118.30
1	A	146	ASP	CB-CG-OD1	6.46	124.12	118.30
1	A	205	ASP	CB-CG-OD1	6.45	124.10	118.30
1	A	162	ASP	CB-CG-OD1	6.42	124.08	118.30
1	A	61	ASP	CB-CG-OD2	-6.12	112.79	118.30
1	A	97	ARG	NE-CZ-NH1	5.88	123.24	120.30
1	A	134	ASP	CB-CG-OD2	-5.85	113.04	118.30
1	A	83	ASP	CB-CG-OD2	-5.80	113.08	118.30
1	A	19	ASP	CB-CG-OD1	5.47	123.22	118.30
1	A	200	ARG	N-CA-CB	5.46	120.44	110.60
1	A	83	ASP	CB-CG-OD1	5.20	122.98	118.30
1	A	61	ASP	CB-CG-OD1	5.07	122.87	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	134	ASP	CB-CG-OD1	5.05	122.85	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	1635	0	1510	56	0
2	A	12	0	15	4	0
3	A	72	0	0	2	1
All	All	1719	0	1525	56	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 18.

All (56) 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:26:TYR:HB2	2:A:252:BME:H21	1.48	0.93
1:A:93:MET:HE3	1:A:183:TYR:HB3	1.58	0.85
1:A:93:MET:CE	1:A:183:TYR:HB3	2.14	0.78
1:A:83:ASP:O	1:A:87:GLN:HG3	1.87	0.75
1:A:147:PRO:HB3	1:A:200:ARG:HD3	1.68	0.75
1:A:120:PHE:CE2	2:A:251:BME:H22	2.23	0.74
1:A:41:THR:HG22	1:A:218:HIS:CD2	2.23	0.73
1:A:155:CYS:HB2	3:A:330:HOH:O	1.89	0.73
1:A:41:THR:HG22	1:A:218:HIS:HD2	1.53	0.72
1:A:26:TYR:HB2	2:A:252:BME:C2	2.20	0.70
1:A:206:LEU:HB2	1:A:212:SER:OG	1.94	0.67
1:A:12:MET:HE1	1:A:115:LEU:HD11	1.78	0.66
1:A:152:MET:HE2	1:A:159:LEU:HD21	1.78	0.65
1:A:17:HIS:ND1	1:A:30:LYS:HE2	2.15	0.62
1:A:158:ILE:CD1	1:A:182:SER:HB3	2.30	0.61
1:A:168:MET:SD	1:A:174:ASN:HB3	2.42	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:PHE:CE2	1:A:176:ARG:HG3	2.37	0.59
1:A:142:THR:HG21	1:A:167:LEU:HD13	1.88	0.56
1:A:92:GLY:O	1:A:186:LYS:HG2	2.05	0.55
1:A:48:VAL:HG11	1:A:56:LEU:HD13	1.88	0.54
1:A:158:ILE:HD11	1:A:182:SER:HB3	1.88	0.54
1:A:52:ASN:O	1:A:53:GLY:C	2.47	0.53
1:A:56:LEU:HG	1:A:58:PHE:O	2.08	0.52
1:A:164:THR:CG2	1:A:176:ARG:HD3	2.41	0.51
1:A:26:TYR:CB	2:A:252:BME:H21	2.31	0.51
1:A:52:ASN:O	1:A:53:GLY:O	2.30	0.50
1:A:95:TYR:CE2	1:A:113:ILE:HD12	2.46	0.50
1:A:186:LYS:N	3:A:349:HOH:O	2.38	0.50
1:A:81:MET:CE	1:A:193:PRO:HG2	2.43	0.49
1:A:41:THR:CG2	1:A:218:HIS:HD2	2.22	0.49
1:A:81:MET:HE1	1:A:193:PRO:HG2	1.95	0.49
1:A:22:VAL:HG23	1:A:27:PHE:HE2	1.78	0.49
1:A:163:VAL:CG1	1:A:179:PHE:HB2	2.43	0.48
1:A:12:MET:CE	1:A:115:LEU:HD11	2.43	0.48
1:A:83:ASP:OD2	1:A:86:LYS:HD2	2.15	0.47
1:A:158:ILE:HD11	1:A:182:SER:CB	2.45	0.47
1:A:149:PHE:CE2	1:A:198:GLU:HG3	2.50	0.46
1:A:217:GLU:HG2	1:A:218:HIS:N	2.31	0.46
1:A:67:PHE:C	1:A:68:CR7:HA31	2.35	0.46
1:A:17:HIS:CE1	1:A:30:LYS:HE2	2.50	0.46
1:A:150:GLN:HE21	1:A:161:GLY:HA3	1.80	0.46
1:A:111:TRP:HB3	1:A:124:SER:CB	2.46	0.46
1:A:26:TYR:CD2	1:A:51:ALA:HB2	2.52	0.45
1:A:19:ASP:O	1:A:125:THR:HA	2.18	0.44
1:A:55:PRO:O	1:A:56:LEU:C	2.56	0.44
1:A:93:MET:HG2	1:A:184:LYS:O	2.18	0.44
1:A:17:HIS:ND1	1:A:30:LYS:CE	2.81	0.43
1:A:167:LEU:HA	1:A:167:LEU:HD23	1.80	0.42
1:A:152:MET:HE2	1:A:159:LEU:CD2	2.48	0.41
1:A:163:VAL:HG12	1:A:179:PHE:HB2	2.01	0.41
1:A:61:ASP:HB3	1:A:167:LEU:HD21	2.03	0.41
1:A:67:PHE:O	1:A:68:CR7:HA31	2.21	0.40
1:A:93:MET:HE1	1:A:183:TYR:HB3	1.96	0.40
1:A:21:CYS:HA	1:A:25:HIS:O	2.21	0.40
1:A:26:TYR:HD2	1:A:51:ALA:HB2	1.87	0.40
1:A:68:CR7:N2	1:A:68:CR7:HD1	2.36	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the sym-

metry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:470:HOH:O	3:A:470:HOH:O[10_665]	1.91	0.29

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	210/238 (88%)	204 (97%)	4 (2%)	2 (1%)	18 10

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	53	GLY
1	A	79	THR

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	168/199 (84%)	163 (97%)	5 (3%)	46 46

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	81	MET
1	A	93	MET

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Mol	Chain	Res	Type
1	A	158	ILE
1	A	167	LEU
1	A	190	THR

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

Mol	Chain	Res	Type
1	A	150	GLN
1	A	178	GLN
1	A	218	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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	CR7	A	68	1	25,25,26	2.59	5 (20%)	30,33,35	1.90	5 (16%)

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	CR7	A	68	1	-	0/12/32/33	0/2/2/2

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	68	CR7	CE1-CD1	2.04	1.42	1.38
1	A	68	CR7	CA2-C2	3.03	1.51	1.48
1	A	68	CR7	CA2-N2	3.30	1.45	1.38
1	A	68	CR7	OH-CZ	6.02	1.51	1.37
1	A	68	CR7	C1-N2	9.07	1.46	1.32

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	68	CR7	N3-C1-N2	-6.66	106.84	111.45
1	A	68	CR7	CA3-N3-C1	-5.13	121.19	127.20
1	A	68	CR7	O3-C3-CA3	-2.36	118.58	126.38
1	A	68	CR7	CB2-CA2-C2	2.33	125.25	122.32
1	A	68	CR7	CA2-N2-C1	2.58	107.77	105.75

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	68	CR7	3	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

3 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	BME	A	250	1	3,3,3	0.48	0	2,2,2	0.39	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	BME	A	251	1	3,3,3	0.41	0	2,2,2	0.26	0
2	BME	A	252	1	3,3,3	0.70	0	2,2,2	0.23	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	BME	A	250	1	-	0/1/1/1	0/0/0/0
2	BME	A	251	1	-	0/1/1/1	0/0/0/0
2	BME	A	252	1	-	0/1/1/1	0/0/0/0

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.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	251	BME	1	0
2	A	252	BME	3	0

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	212/238 (89%)	0.40	7 (3%)	47 47	25, 37, 67, 84	0

All (7) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	80	SER	3.3
1	A	89	PHE	2.8
1	A	8	ILE	2.4
1	A	189	VAL	2.2
1	A	156	ASP	2.1
1	A	186	LYS	2.1
1	A	207	ASP	2.0

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

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	CR7	A	68	24/25	0.95	0.14	-	22,30,35,44	0

6.3 Carbohydrates

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	BME	A	252	4/4	0.81	0.29	5.00	52,54,54,66	0
2	BME	A	250	4/4	0.88	0.35	4.30	44,46,50,63	0
2	BME	A	251	4/4	0.94	0.22	0.92	42,44,46,54	0

6.5 Other polymers [i](#)

There are no such residues in this entry.