



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 12, 2026 – 12:45 PM UTC

PDB ID : 6A5Q / pdb_00006a5q
Title : Structure of 14-3-3 beta in complex with TFEB 14-3-3 binding motif
Authors : Xu, Y.; Ren, J.Q.; Feng, W.
Deposited on : 2018-06-25
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

<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

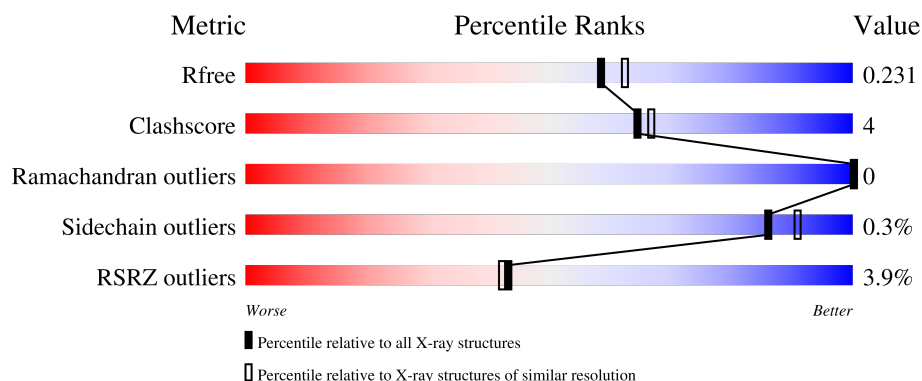
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 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}	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	A	250	2% 86% 7% 7%
1	B	250	2% 84% 8% 7%
1	C	250	5% 80% 10% 10%
2	D	15	13% 60% 20% 20%
2	E	15	20% 73% 13% 13%

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Mol	Chain	Length	Quality of chain
2	F	15	7%67%13%20%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 6276 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 14-3-3 protein beta/alpha.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	232	Total	C	N	O	S	0	3	0
			1882	1178	315	380	9			
1	A	232	Total	C	N	O	S	0	2	0
			1857	1162	309	377	9			
1	C	226	Total	C	N	O	S	0	2	0
			1812	1136	300	367	9			

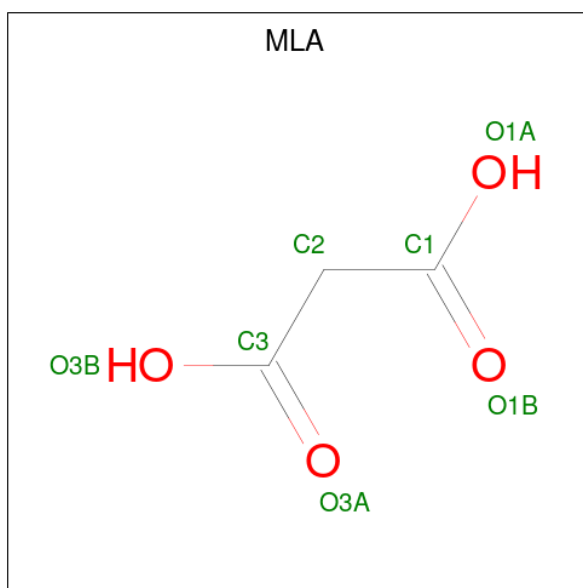
There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-3	GLY	-	expression tag	UNP P31946
B	-2	PRO	-	expression tag	UNP P31946
B	-1	GLY	-	expression tag	UNP P31946
B	0	SER	-	expression tag	UNP P31946
A	-3	GLY	-	expression tag	UNP P31946
A	-2	PRO	-	expression tag	UNP P31946
A	-1	GLY	-	expression tag	UNP P31946
A	0	SER	-	expression tag	UNP P31946
C	-3	GLY	-	expression tag	UNP P31946
C	-2	PRO	-	expression tag	UNP P31946
C	-1	GLY	-	expression tag	UNP P31946
C	0	SER	-	expression tag	UNP P31946

- Molecule 2 is a protein called TFEB pS211-peptide.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	D	12	Total 92	C 51	N 13	O 26	P 1	S 1	0	1	0
2	E	13	Total 91	C 50	N 14	O 25	P 1	S 1	0	0	0
2	F	12	Total 87	C 48	N 13	O 24	P 1	S 1	0	0	0

- Molecule 3 is MALONIC ACID (CCD ID: MLA) (formula: $C_3H_4O_4$).

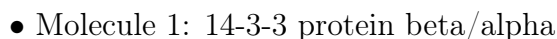
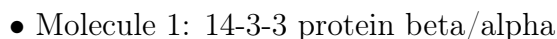


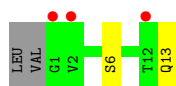
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			7	3	4		
3	A	1	Total	C	O	0	0
			7	3	4		
3	C	1	Total	C	O	0	0
			7	3	4		

- Molecule 4 is water.

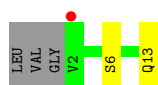
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	168	Total	O	0	0
			168	168		
4	A	138	Total	O	0	0
			138	138		
4	C	102	Total	O	0	0
			102	102		
4	D	7	Total	O	0	0
			7	7		
4	E	11	Total	O	0	0
			11	11		
4	F	8	Total	O	0	0
			8	8		

- Molecule 1: 14-3-3 protein beta/alpha





- Molecule 2: TFEB pS211-peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	85.17Å 85.17Å 209.60Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	36.88 – 2.00 36.88 – 2.00	Depositor EDS
% Data completeness (in resolution range)	99.5 (36.88-2.00) 99.4 (36.88-2.00)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.09 (at 2.00Å)	Xtriage
Refinement program	PHENIX 1.12_2829	Depositor
R, R_{free}	0.186 , 0.230 0.186 , 0.231	Depositor DCC
R_{free} test set	2002 reflections (3.31%)	wwPDB-VP
Wilson B-factor (Å ²)	25.3	Xtriage
Anisotropy	0.420	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 43.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.024 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6276	wwPDB-VP
Average B, all atoms (Å ²)	30.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.27% 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: MLA, SEP

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	0.35	0/1889	0.49	0/2546
1	B	0.34	0/1918	0.47	0/2582
1	C	0.41	1/1844 (0.1%)	0.51	2/2485 (0.1%)
2	D	0.28	0/84	0.40	0/112
2	E	0.24	0/80	0.39	0/106
2	F	0.31	0/76	0.44	0/101
All	All	0.36	1/5891 (0.0%)	0.49	2/7932 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	99	VAL	C-O	-7.53	1.15	1.24

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	159	LYS	CA-C-N	-5.39	112.93	122.26
1	C	159	LYS	C-N-CA	-5.39	112.93	122.26

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	1857	0	1821	12	0
1	B	1882	0	1866	14	0
1	C	1812	0	1772	20	0
2	D	92	0	79	2	0
2	E	91	0	81	1	0
2	F	87	0	75	1	0
3	A	7	0	2	0	0
3	B	7	0	2	0	0
3	C	7	0	2	0	0
4	A	138	0	0	0	0
4	B	168	0	0	1	0
4	C	102	0	0	3	0
4	D	7	0	0	0	0
4	E	11	0	0	0	0
4	F	8	0	0	0	0
All	All	6276	0	5700	45	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 (45) 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:37:GLU:OE1	1:B:110:ASN:HB3	1.79	0.83
1:C:168:ILE:HD11	2:D:13:GLN:HG2	1.62	0.81
1:C:155:PHE:CE1	1:C:159:LYS:HE3	2.28	0.67
1:B:80:MET:HE1	1:A:7:GLU:HB3	1.78	0.65
1:C:165:THR:HB	1:C:208:LEU:HD13	1.80	0.64
1:C:82:LYS:HG3	1:C:85:ARG:HH12	1.64	0.61
1:B:188:GLU:H	1:B:188:GLU:CD	2.10	0.59
1:B:84:TYR:CE1	1:A:11:LYS:HE3	2.38	0.58
1:B:168:ILE:HD11	2:E:13:GLN:HG2	1.87	0.56
1:C:221:GLN:NE2	4:C:403:HOH:O	2.39	0.56
1:A:155:PHE:CE2	1:A:159:LYS:HD2	2.43	0.53
1:A:168:ILE:HD11	2:F:13:GLN:HG2	1.91	0.53
1:B:224:ARG:O	1:B:228:THR:HG23	2.08	0.52
1:B:4:ASP:OD1	1:B:7:GLU:HG3	2.10	0.52
1:A:115:GLU:HG3	1:A:162:MET:HE2	1.92	0.51
1:A:33:GLU:C	1:A:35:GLY:H	2.19	0.50
1:C:50:TYR:CG	1:C:99:VAL:CG1	2.95	0.50
1:C:115:GLU:HG3	1:C:162:MET:HE2	1.93	0.49
1:B:99[A]:VAL:HG21	1:B:127:TYR:CG	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:50:TYR:CD1	1:C:99:VAL:HG13	2.49	0.48
1:C:115:GLU:HA	1:C:162:MET:CE	2.44	0.48
1:B:50:TYR:CD1	1:B:99[A]:VAL:HG12	2.49	0.47
1:C:196:THR:O	1:C:200:GLU:HG3	2.14	0.47
1:C:97:ASN:O	1:C:101:GLU:HG3	2.15	0.47
1:B:189:LYS:NZ	4:B:403:HOH:O	2.35	0.46
1:A:160:LYS:HG3	1:A:161:GLU:HG2	1.96	0.46
1:B:4:ASP:OD1	1:B:6[B]:SER:OG	2.30	0.45
1:C:128:PHE:HB3	1:C:147:SER:HB2	1.99	0.45
1:C:80:MET:HB3	1:C:80:MET:HE2	1.81	0.45
1:A:53:VAL:HG12	1:A:95:ILE:HD13	1.99	0.44
1:B:53:VAL:HG12	1:B:95:ILE:HD13	2.00	0.43
1:C:163:GLN:HG2	4:C:442:HOH:O	2.17	0.43
1:C:64:ILE:O	1:C:68:GLU:HG3	2.19	0.43
1:C:50:TYR:CD1	1:C:99:VAL:CG1	3.02	0.42
1:C:68:GLU:OE2	1:C:85:ARG:HD3	2.20	0.42
1:A:51:LYS:HD2	1:A:51:LYS:HA	1.83	0.42
1:C:29:LYS:HG3	1:C:102:LEU:HD11	2.01	0.42
1:A:38:LEU:O	1:A:43:ARG:NH1	2.52	0.41
1:A:80:MET:HE2	1:A:80:MET:HB3	1.73	0.41
1:C:113:GLN:NE2	4:C:401:HOH:O	2.24	0.41
1:C:50:TYR:CG	1:C:99:VAL:HG11	2.56	0.40
1:B:115:GLU:HA	1:B:162:MET:CE	2.51	0.40
1:B:180:TYR:CD2	1:B:184:LEU:HD12	2.57	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	A	232/250 (93%)	227 (98%)	5 (2%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	233/250 (93%)	232 (100%)	1 (0%)	0	100	100
1	C	224/250 (90%)	221 (99%)	3 (1%)	0	100	100
2	D	10/15 (67%)	10 (100%)	0	0	100	100
2	E	10/15 (67%)	10 (100%)	0	0	100	100
2	F	9/15 (60%)	9 (100%)	0	0	100	100
All	All	718/795 (90%)	709 (99%)	9 (1%)	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	203/217 (94%)	203 (100%)	0	100	100
1	B	209/217 (96%)	207 (99%)	2 (1%)	68	75
1	C	198/217 (91%)	197 (100%)	1 (0%)	81	87
2	D	11/12 (92%)	11 (100%)	0	100	100
2	E	10/12 (83%)	10 (100%)	0	100	100
2	F	10/12 (83%)	10 (100%)	0	100	100
All	All	641/687 (93%)	638 (100%)	3 (0%)	86	87

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

Mol	Chain	Res	Type
1	B	99[A]	VAL
1	B	99[B]	VAL
1	C	160	LYS

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

Mol	Chain	Res	Type
1	A	149	GLN
1	C	36	HIS
1	C	146	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

3 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	$\# Z > 2$
2	SEP	D	6	2	8,9,10	1.47	1 (12%)	7,12,14	0.78	0
2	SEP	E	6	2	8,9,10	1.34	1 (12%)	7,12,14	0.87	0
2	SEP	F	6	2	8,9,10	1.34	1 (12%)	7,12,14	0.91	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	SEP	D	6	2	-	0/6/8/10	-
2	SEP	E	6	2	-	0/6/8/10	-
2	SEP	F	6	2	-	0/6/8/10	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	6	SEP	P-O1P	3.02	1.59	1.50
2	D	6	SEP	P-O1P	2.97	1.59	1.50
2	E	6	SEP	P-O1P	2.85	1.59	1.50

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.

5.5 Carbohydrates [i](#)

There are no oligosaccharides 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	$\# Z > 2$
3	MLA	C	301	-	6,6,6	1.17	0	7,7,7	1.44	1 (14%)
3	MLA	A	301	-	6,6,6	1.15	0	7,7,7	1.36	0
3	MLA	B	301	-	6,6,6	1.14	0	7,7,7	1.46	1 (14%)

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
3	MLA	C	301	-	-	1/4/4/4	-
3	MLA	A	301	-	-	0/4/4/4	-
3	MLA	B	301	-	-	0/4/4/4	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	301	MLA	O1A-C1-C2	2.34	121.77	114.51
3	B	301	MLA	O1A-C1-C2	2.21	121.36	114.51

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	301	MLA	O1B-C1-C2-C3

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	A	232/250 (92%)	-0.08	6 (2%) 57 56	15, 25, 53, 78	2 (0%)
1	B	232/250 (92%)	-0.35	4 (1%) 69 68	12, 23, 39, 84	3 (1%)
1	C	226/250 (90%)	0.24	12 (5%) 32 31	17, 32, 55, 86	2 (0%)
2	D	11/15 (73%)	0.82	2 (18%) 3 3	24, 30, 52, 59	1 (9%)
2	E	12/15 (80%)	0.61	3 (25%) 2 1	19, 36, 52, 54	0
2	F	11/15 (73%)	0.14	1 (9%) 15 13	20, 25, 43, 53	0
All	All	724/795 (91%)	-0.04	28 (3%) 43 42	12, 27, 53, 86	8 (1%)

All (28) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	78	GLN	4.4
2	E	1	GLY	4.0
1	C	79	GLN	3.6
1	C	80	MET	3.3
2	D	12	THR	2.9
1	C	71	THR	2.8
1	C	3	MET	2.8
1	C	106	TYR	2.8
1	A	36	HIS	2.7
2	E	2	VAL	2.7
1	C	139	ASN	2.6
1	C	69	GLN	2.5
1	C	101	GLU	2.5
1	A	69	GLN	2.4
1	B	234	ASN	2.4
2	D	2	VAL	2.4
1	A	233	GLU	2.4
1	C	142	THR	2.3
2	F	2	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	75	GLU	2.2
1	A	71	THR	2.2
1	A	231	THR	2.1
2	E	12	THR	2.1
1	C	136	SER	2.1
1	B	37	GLU	2.1
1	A	232	SER	2.1
1	B	232	SER	2.1
1	C	81	GLY	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. 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
2	SEP	D	6	10/11	0.98	0.04	21,22,24,25	0
2	SEP	F	6	10/11	0.98	0.06	14,17,19,20	0
2	SEP	E	6	10/11	0.99	0.06	15,16,18,20	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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(Å ²)	Q<0.9
3	MLA	B	301	7/7	0.91	0.13	28,30,39,42	0
3	MLA	C	301	7/7	0.91	0.08	34,35,42,44	0
3	MLA	A	301	7/7	0.92	0.10	29,30,38,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.