



Full wwPDB X-ray Structure Validation Report

Feb 28, 2014 – 01:41 PM GMT

PDB ID : 4L75
Title : Ca²⁺-bound D184N mutant MthK RCK domain at 2.4 Angstrom
Authors : Smith, F.J.; Rothberg, B.S.
Deposited on : 2013-06-13
Resolution : 2.39 Å(reported)

This is a full wwPDB 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/ValidationPDFNotes.html>

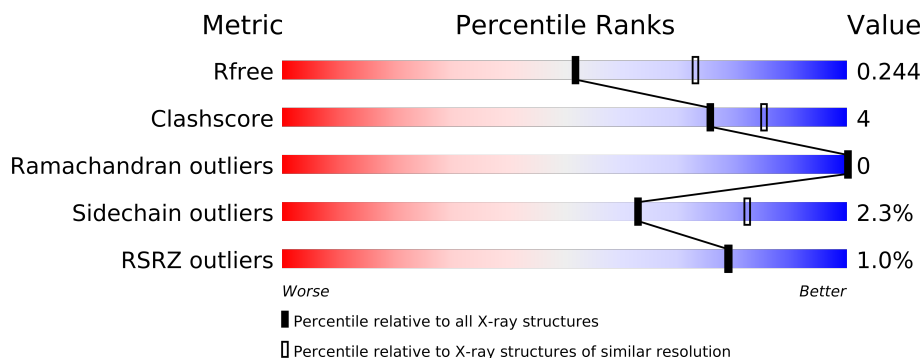
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.39 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}	66092	2207 (2.40-2.40)
Clashscore	79885	2789 (2.40-2.40)
Ramachandran outliers	78287	2736 (2.40-2.40)
Sidechain outliers	78261	2737 (2.40-2.40)
RSRZ outliers	66119	2210 (2.40-2.40)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	242	
1	B	242	
1	C	242	
1	D	242	
1	E	242	
1	F	242	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
2	CA	E	401	-	X

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 10580 atoms, of which 0 are hydrogen and 0 are deuterium.

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 Calcium-gated potassium channel MthK.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	229	Total	C	N	O	S	0	0	0
			1760	1099	315	339	7			
1	B	224	Total	C	N	O	S	0	0	0
			1735	1080	308	340	7			
1	C	221	Total	C	N	O	S	0	0	0
			1693	1057	303	326	7			
1	D	223	Total	C	N	O	S	0	0	0
			1708	1066	303	332	7			
1	E	221	Total	C	N	O	S	0	0	0
			1712	1066	303	336	7			
1	F	223	Total	C	N	O	S	0	0	0
			1729	1078	308	336	7			

There are 78 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	184	ASN	ASP	ENGINEERED MUTATION	UNP O27564
A	337	LEU	-	EXPRESSION TAG	UNP O27564
A	338	VAL	-	EXPRESSION TAG	UNP O27564
A	339	PRO	-	EXPRESSION TAG	UNP O27564
A	340	ARG	-	EXPRESSION TAG	UNP O27564
A	341	GLY	-	EXPRESSION TAG	UNP O27564
A	342	SER	-	EXPRESSION TAG	UNP O27564
A	343	HIS	-	EXPRESSION TAG	UNP O27564
A	344	HIS	-	EXPRESSION TAG	UNP O27564
A	345	HIS	-	EXPRESSION TAG	UNP O27564
A	346	HIS	-	EXPRESSION TAG	UNP O27564
A	347	HIS	-	EXPRESSION TAG	UNP O27564
A	348	HIS	-	EXPRESSION TAG	UNP O27564
B	184	ASN	ASP	ENGINEERED MUTATION	UNP O27564
B	337	LEU	-	EXPRESSION TAG	UNP O27564
B	338	VAL	-	EXPRESSION TAG	UNP O27564
B	339	PRO	-	EXPRESSION TAG	UNP O27564

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Chain	Residue	Modelled	Actual	Comment	Reference
B	340	ARG	-	EXPRESSION TAG	UNP O27564
B	341	GLY	-	EXPRESSION TAG	UNP O27564
B	342	SER	-	EXPRESSION TAG	UNP O27564
B	343	HIS	-	EXPRESSION TAG	UNP O27564
B	344	HIS	-	EXPRESSION TAG	UNP O27564
B	345	HIS	-	EXPRESSION TAG	UNP O27564
B	346	HIS	-	EXPRESSION TAG	UNP O27564
B	347	HIS	-	EXPRESSION TAG	UNP O27564
B	348	HIS	-	EXPRESSION TAG	UNP O27564
C	184	ASN	ASP	ENGINEERED MUTATION	UNP O27564
C	337	LEU	-	EXPRESSION TAG	UNP O27564
C	338	VAL	-	EXPRESSION TAG	UNP O27564
C	339	PRO	-	EXPRESSION TAG	UNP O27564
C	340	ARG	-	EXPRESSION TAG	UNP O27564
C	341	GLY	-	EXPRESSION TAG	UNP O27564
C	342	SER	-	EXPRESSION TAG	UNP O27564
C	343	HIS	-	EXPRESSION TAG	UNP O27564
C	344	HIS	-	EXPRESSION TAG	UNP O27564
C	345	HIS	-	EXPRESSION TAG	UNP O27564
C	346	HIS	-	EXPRESSION TAG	UNP O27564
C	347	HIS	-	EXPRESSION TAG	UNP O27564
C	348	HIS	-	EXPRESSION TAG	UNP O27564
D	184	ASN	ASP	ENGINEERED MUTATION	UNP O27564
D	337	LEU	-	EXPRESSION TAG	UNP O27564
D	338	VAL	-	EXPRESSION TAG	UNP O27564
D	339	PRO	-	EXPRESSION TAG	UNP O27564
D	340	ARG	-	EXPRESSION TAG	UNP O27564
D	341	GLY	-	EXPRESSION TAG	UNP O27564
D	342	SER	-	EXPRESSION TAG	UNP O27564
D	343	HIS	-	EXPRESSION TAG	UNP O27564
D	344	HIS	-	EXPRESSION TAG	UNP O27564
D	345	HIS	-	EXPRESSION TAG	UNP O27564
D	346	HIS	-	EXPRESSION TAG	UNP O27564
D	347	HIS	-	EXPRESSION TAG	UNP O27564
D	348	HIS	-	EXPRESSION TAG	UNP O27564
E	184	ASN	ASP	ENGINEERED MUTATION	UNP O27564
E	337	LEU	-	EXPRESSION TAG	UNP O27564
E	338	VAL	-	EXPRESSION TAG	UNP O27564
E	339	PRO	-	EXPRESSION TAG	UNP O27564
E	340	ARG	-	EXPRESSION TAG	UNP O27564
E	341	GLY	-	EXPRESSION TAG	UNP O27564
E	342	SER	-	EXPRESSION TAG	UNP O27564

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Chain	Residue	Modelled	Actual	Comment	Reference
E	343	HIS	-	EXPRESSION TAG	UNP O27564
E	344	HIS	-	EXPRESSION TAG	UNP O27564
E	345	HIS	-	EXPRESSION TAG	UNP O27564
E	346	HIS	-	EXPRESSION TAG	UNP O27564
E	347	HIS	-	EXPRESSION TAG	UNP O27564
E	348	HIS	-	EXPRESSION TAG	UNP O27564
F	184	ASN	ASP	ENGINEERED MUTATION	UNP O27564
F	337	LEU	-	EXPRESSION TAG	UNP O27564
F	338	VAL	-	EXPRESSION TAG	UNP O27564
F	339	PRO	-	EXPRESSION TAG	UNP O27564
F	340	ARG	-	EXPRESSION TAG	UNP O27564
F	341	GLY	-	EXPRESSION TAG	UNP O27564
F	342	SER	-	EXPRESSION TAG	UNP O27564
F	343	HIS	-	EXPRESSION TAG	UNP O27564
F	344	HIS	-	EXPRESSION TAG	UNP O27564
F	345	HIS	-	EXPRESSION TAG	UNP O27564
F	346	HIS	-	EXPRESSION TAG	UNP O27564
F	347	HIS	-	EXPRESSION TAG	UNP O27564
F	348	HIS	-	EXPRESSION TAG	UNP O27564

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	D	1	Total Ca 1 1	0	0
2	E	1	Total Ca 1 1	0	0
2	B	1	Total Ca 1 1	0	0
2	C	1	Total Ca 1 1	0	0
2	A	1	Total Ca 1 1	0	0
2	F	1	Total Ca 1 1	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	44	Total O 44 44	0	0
3	B	72	Total O 72 72	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	20	Total 20	O 20	0	0
3	D	18	Total 18	O 18	0	0
3	E	29	Total 29	O 29	0	0
3	F	54	Total 54	O 54	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Calcium-gated potassium channel MthK

Chain A: 



- Molecule 1: Calcium-gated potassium channel MthK

Chain B: 



- Molecule 1: Calcium-gated potassium channel MthK

Chain C: 



- Molecule 1: Calcium-gated potassium channel MthK

Chain D: 



- Molecule 1: Calcium-gated potassium channel MthK

Chain E: 



- Molecule 1: Calcium-gated potassium channel MthK

Chain F: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 65 2 2	Depositor
Cell constants a, b, c, α , β , γ	119.23Å 119.23Å 353.96Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	44.59 – 2.39 44.59 – 2.39	Depositor EDS
% Data completeness (in resolution range)	99.5 (44.59-2.39) 94.7 (44.59-2.39)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.88 (at 2.39Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.2_1309)	Depositor
R, R_{free}	0.196 , 0.245 0.195 , 0.244	Depositor DCC
R_{free} test set	1931 reflections (3.42%)	DCC
Wilson B-factor (Å ²)	54.0	Xtriage
Anisotropy	0.089	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 41.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 59418 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	10580	wwPDB-VP
Average B, all atoms (Å ²)	72.0	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 43.00 % 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 1.8781e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.41	0/1782	0.55	0/2407
1	B	0.42	0/1756	0.58	0/2372
1	C	0.34	0/1714	0.52	0/2316
1	D	0.35	0/1729	0.53	0/2339
1	E	0.34	0/1733	0.50	0/2340
1	F	0.40	0/1750	0.54	0/2363
All	All	0.38	0/10464	0.54	0/14137

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1760	0	1	3	0
1	B	1735	0	0	7	0
1	C	1693	0	0	7	0
1	D	1708	0	0	7	0
1	E	1712	0	0	13	0
1	F	1729	0	0	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
2	E	1	0	0	0	0
2	F	1	0	0	0	0
3	A	44	0	0	2	0
3	B	72	0	0	3	0
3	C	20	0	0	6	0
3	D	18	0	0	5	0
3	E	29	0	0	6	0
3	F	54	0	0	2	0
All	All	10580	0	1	40	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 4.

All (40) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:116:ARG:N	3:D:507:HOH:O	2.16	0.78
1:B:218:GLU:OE1	3:B:530:HOH:O	1.99	0.77
1:D:203:GLU:O	3:D:512:HOH:O	2.11	0.68
1:B:218:GLU:OE2	1:E:262:ARG:NH2	2.27	0.68
1:F:124:SER:OG	1:F:184:ASN:OD1	2.11	0.68
1:D:301:GLU:OE2	3:D:509:HOH:O	2.13	0.66
1:B:258:GLU:OE1	1:B:263:ARG:NH1	2.31	0.63
1:E:305:ASP:OD2	3:E:516:HOH:O	2.15	0.63
1:E:176:ARG:NH1	1:E:201:ILE:O	2.34	0.60
1:E:241:ARG:NH1	1:E:248:GLU:OE2	2.34	0.59
1:E:117:HIS:NE2	1:E:174:ASN:O	2.35	0.59
1:C:116:ARG:NE	3:C:514:HOH:O	2.37	0.57
1:C:305:ASP:OD1	3:C:519:HOH:O	2.18	0.57
1:A:213:ARG:NH1	1:A:215:GLU:OE2	2.37	0.57
1:F:117:HIS:NE2	1:F:174:ASN:O	2.39	0.56
1:E:116:ARG:NH1	1:E:138:GLU:OE1	2.39	0.55
1:F:116:ARG:NH2	3:F:530:HOH:O	2.39	0.54
1:E:298:ARG:NH2	1:E:314:ALA:O	2.40	0.54
1:D:124:SER:OG	1:D:184:ASN:OD1	2.25	0.54
1:E:213:ARG:NH1	1:E:215:GLU:OE2	2.41	0.54
1:D:227:GLN:NE2	3:D:506:HOH:O	2.42	0.52
1:E:206:ARG:NH2	3:E:505:HOH:O	2.43	0.51
1:E:305:ASP:OD1	3:E:509:HOH:O	2.18	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:287:ASP:OD2	3:D:517:HOH:O	2.18	0.50
1:E:241:ARG:NE	3:E:504:HOH:O	2.45	0.50
1:E:287:ASP:OD2	3:E:517:HOH:O	2.19	0.49
1:A:129:GLU:OE2	3:A:526:HOH:O	2.20	0.49
1:E:168:SER:N	3:E:514:HOH:O	2.46	0.47
1:B:221:ARG:NH2	3:B:537:HOH:O	2.47	0.47
1:B:115:SER:OG	1:B:116:ARG:N	2.47	0.47
1:A:227:GLN:NE2	3:A:531:HOH:O	2.47	0.46
1:C:186:GLU:O	3:C:506:HOH:O	2.21	0.46
1:C:200:LYS:NZ	3:C:512:HOH:O	2.48	0.46
1:C:116:ARG:NH1	3:C:516:HOH:O	2.49	0.44
1:C:274:LYS:NZ	1:C:335:SER:OG	2.51	0.43
1:D:288:VAL:O	1:D:329:ARG:NH2	2.51	0.43
1:B:124:SER:OG	1:B:184:ASN:OD1	2.37	0.42
1:F:199:ARG:NE	3:F:517:HOH:O	2.52	0.42
1:B:200:LYS:NZ	3:B:536:HOH:O	2.52	0.42
1:C:213:ARG:NH1	3:C:505:HOH:O	2.54	0.41

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	227/242 (94%)	224 (99%)	3 (1%)	0	100	100
1	B	222/242 (92%)	220 (99%)	2 (1%)	0	100	100
1	C	219/242 (90%)	217 (99%)	2 (1%)	0	100	100
1	D	221/242 (91%)	217 (98%)	4 (2%)	0	100	100
1	E	219/242 (90%)	216 (99%)	3 (1%)	0	100	100
1	F	221/242 (91%)	218 (99%)	3 (1%)	0	100	100
All	All	1329/1452 (92%)	1312 (99%)	17 (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	191/207 (92%)	186 (97%)	5 (3%)	59	79
1	B	191/207 (92%)	187 (98%)	4 (2%)	66	84
1	C	183/207 (88%)	177 (97%)	6 (3%)	50	71
1	D	185/207 (89%)	184 (100%)	1 (0%)	94	98
1	E	188/207 (91%)	184 (98%)	4 (2%)	66	84
1	F	190/207 (92%)	184 (97%)	6 (3%)	51	72
All	All	1128/1242 (91%)	1102 (98%)	26 (2%)	63	82

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	114	LYS
1	A	148	VAL
1	A	184	ASN
1	A	189	SER
1	A	262	ARG
1	B	148	VAL
1	B	184	ASN
1	B	262	ARG
1	B	300	ASP
1	C	116	ARG
1	C	184	ASN
1	C	189	SER
1	C	262	ARG
1	C	278	VAL
1	C	281	LEU
1	D	262	ARG
1	E	148	VAL
1	E	212	GLU
1	E	262	ARG
1	E	300	ASP
1	F	116	ARG
1	F	148	VAL
1	F	212	GLU

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Mol	Chain	Res	Type
1	F	262	ARG
1	F	296	VAL
1	F	338	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA chains in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 6 ligands modelled in this entry, 6 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.

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(Å²)	Q<0.9	
1	A	229/242 (94%)	-0.07	2 (0%)	81	81	45, 65, 96, 171	0
1	B	224/242 (92%)	-0.06	1 (0%)	90	90	41, 59, 87, 127	0
1	C	221/242 (91%)	0.10	4 (1%)	65	63	50, 77, 125, 143	0
1	D	223/242 (92%)	0.08	1 (0%)	90	90	52, 74, 110, 123	0
1	E	221/242 (91%)	0.12	1 (0%)	88	88	48, 78, 105, 119	0
1	F	223/242 (92%)	-0.08	4 (1%)	65	63	42, 63, 92, 125	0
All	All	1341/1452 (92%)	0.01	13 (0%)	79	79	41, 69, 109, 171	0

All (13) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	312	PHE	7.3
1	A	112	VAL	4.6
1	F	136	GLY	4.3
1	A	111	ASP	4.1
1	C	330	LEU	3.0
1	F	337	LEU	2.9
1	F	336	ALA	2.9
1	F	338	VAL	2.7
1	D	186	GLU	2.6
1	C	135	ARG	2.6
1	C	134	LEU	2.5
1	E	148	VAL	2.4
1	B	136	GLY	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

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	RSR	LLDF	B-factors(Å ²)	Q<0.9
2	CA	E	401	1/1	0.18	5.23	121,121,121,121	0
2	CA	F	401	1/1	0.10	0.12	81,81,81,81	0
2	CA	A	401	1/1	0.12	-0.25	73,73,73,73	0
2	CA	B	401	1/1	0.09	-1.33	81,81,81,81	0
2	CA	D	401	1/1	0.07	-1.60	117,117,117,117	0
2	CA	C	401	1/1	0.06	-2.17	132,132,132,132	0

6.5 Other polymers ⓘ

There are no such residues in this entry.