



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 05:26 PM UTC

PDB ID : 3UOA / pdb_00003uoa
Title : Crystal structure of the MALT1 paracaspase (P21 form)
Authors : Jeffrey, P.D.; Yu, J.W.; Shi, Y.
Deposited on : 2011-11-16
Resolution : 1.75 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
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

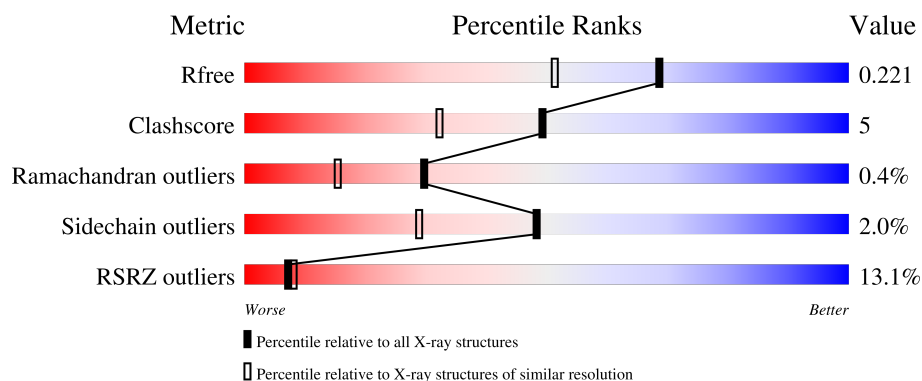
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.75 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	3183 (1.76-1.76)
Clashscore	190562	3299 (1.76-1.76)
Ramachandran outliers	187476	3274 (1.76-1.76)
Sidechain outliers	187428	3274 (1.76-1.76)
RSRZ outliers	180081	3183 (1.76-1.76)

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	B	390	
1	C	390	
2	L	6	
2	M	6	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 11944 atoms, of which 5802 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 Mucosa-associated lymphoid tissue lymphoma translocation protein 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	B	364	Total	C	H	N	O	S	0	0	0
			5728	1835	2869	463	540	21			
1	C	363	Total	C	H	N	O	S	0	0	0
			5701	1832	2849	464	535	21			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	338	MET	-	expression tag	UNP Q9UDY8
B	720	LEU	-	expression tag	UNP Q9UDY8
B	721	GLU	-	expression tag	UNP Q9UDY8
B	722	HIS	-	expression tag	UNP Q9UDY8
B	723	HIS	-	expression tag	UNP Q9UDY8
B	724	HIS	-	expression tag	UNP Q9UDY8
B	725	HIS	-	expression tag	UNP Q9UDY8
B	726	HIS	-	expression tag	UNP Q9UDY8
B	727	HIS	-	expression tag	UNP Q9UDY8
C	338	MET	-	expression tag	UNP Q9UDY8
C	720	LEU	-	expression tag	UNP Q9UDY8
C	721	GLU	-	expression tag	UNP Q9UDY8
C	722	HIS	-	expression tag	UNP Q9UDY8
C	723	HIS	-	expression tag	UNP Q9UDY8
C	724	HIS	-	expression tag	UNP Q9UDY8
C	725	HIS	-	expression tag	UNP Q9UDY8
C	726	HIS	-	expression tag	UNP Q9UDY8
C	727	HIS	-	expression tag	UNP Q9UDY8

- Molecule 2 is a protein called Z-Val-Arg-Pro-DL-Arg-fluoromethylketone.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	L	4	Total	C	H	N	O	0	0	0
			78	22	42	10	4			
2	M	4	Total	C	H	N	O	0	0	0
			78	22	42	10	4			

- Molecule 3 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	2	Total	Mg	0	0
			2	2		

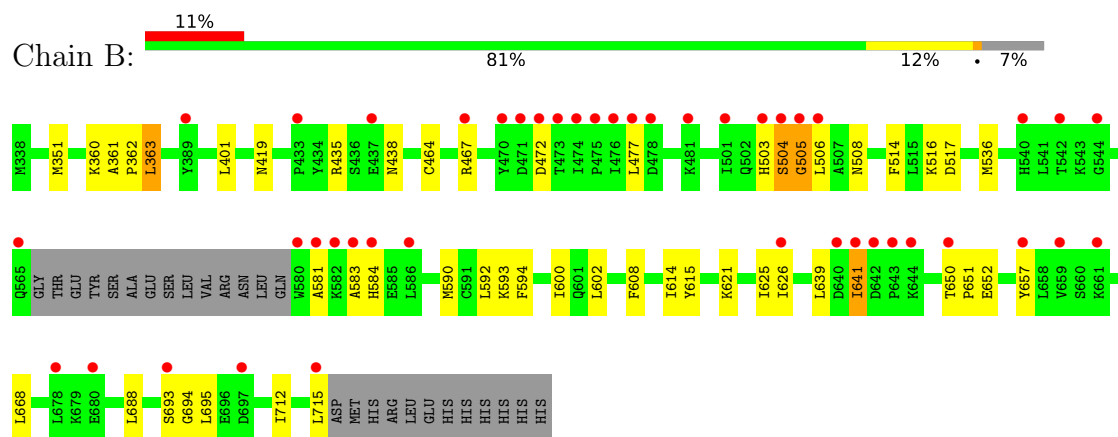
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	158	Total	O	0	0
			158	158		
4	C	193	Total	O	0	0
			193	193		
4	L	3	Total	O	0	0
			3	3		
4	M	3	Total	O	0	0
			3	3		

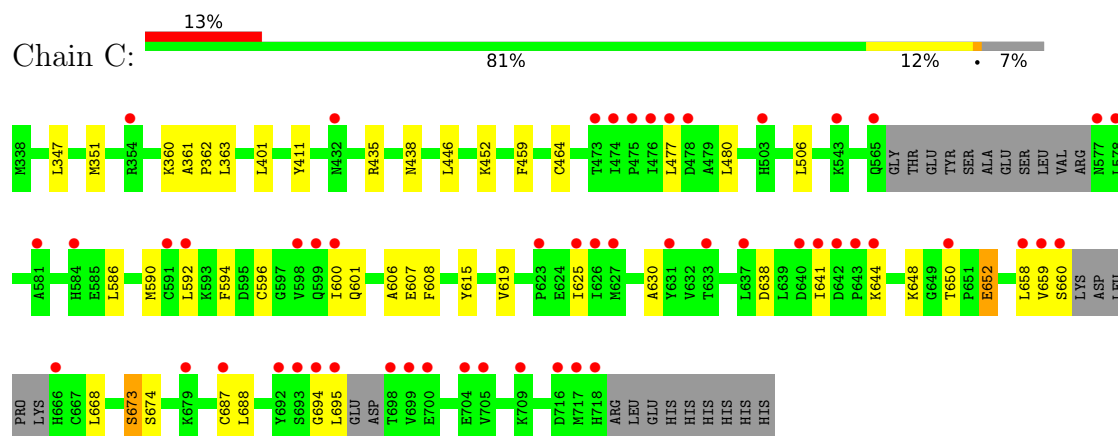
3 Residue-property plots [i](#)

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: Mucosa-associated lymphoid tissue lymphoma translocation protein 1



- Molecule 1: Mucosa-associated lymphoid tissue lymphoma translocation protein 1

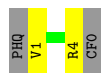


- Molecule 2: Z-Val-Arg-Pro-DL-Arg-fluoromethylketone



- Molecule 2: Z-Val-Arg-Pro-DL-Arg-fluoromethylketone

Chain M:  33% 33% 33%



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	63.48Å 75.73Å 87.83Å 90.00° 88.98° 90.00°	Depositor
Resolution (Å)	36.41 – 1.75 36.41 – 1.75	Depositor EDS
% Data completeness (in resolution range)	95.3 (36.41-1.75) 95.1 (36.41-1.75)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.99 (at 1.75Å)	Xtriage
Refinement program	PHENIX 1.6.4_486	Depositor
R, R_{free}	0.194 , 0.226 0.190 , 0.221	Depositor DCC
R_{free} test set	4156 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	18.6	Xtriage
Anisotropy	0.292	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.44 , 49.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.008 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	11944	wwPDB-VP
Average B, all atoms (Å ²)	33.0	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 43.40 % 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 1.7746e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹ Intensities estimated from amplitudes.

² Theoretical 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: MG

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	B	0.43	0/2910	0.68	0/3936
1	C	0.45	0/2902	0.72	1/3921 (0.0%)
2	L	0.49	0/36	0.60	0/47
2	M	0.54	0/36	0.67	0/47
All	All	0.44	0/5884	0.70	1/7951 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	673	SER	N-CA-C	-5.55	102.24	110.46

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	B	2859	2869	2876	33	0
1	C	2852	2849	2856	29	0
2	L	36	42	44	1	0
2	M	36	42	44	2	0
3	C	2	0	0	0	0
4	B	158	0	0	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	193	0	0	2	0
4	L	3	0	0	0	0
4	M	3	0	0	1	0
All	All	6142	5802	5820	63	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 5.

All (63) 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:C:594:PHE:CE1	1:C:600:ILE:HD12	2.23	0.71
1:B:584:HIS:ND1	1:B:584:HIS:O	2.24	0.71
1:C:435:ARG:H	1:C:438:ASN:HD22	1.40	0.70
1:B:594:PHE:CE1	1:B:600:ILE:HD12	2.28	0.68
1:C:600:ILE:HD11	1:C:688:LEU:HD13	1.74	0.68
1:B:464:CYS:SG	2:L:4:ARG:C	2.77	0.67
1:B:600:ILE:HD11	1:B:688:LEU:HD13	1.76	0.67
1:B:351:MET:HE3	1:B:360:LYS:HA	1.79	0.64
1:B:435:ARG:H	1:B:438:ASN:HD22	1.47	0.62
1:C:464:CYS:SG	2:M:4:ARG:C	2.84	0.60
1:B:363:LEU:HD11	1:B:657:TYR:HB2	1.85	0.58
1:B:363:LEU:HD13	1:B:608:PHE:HZ	1.72	0.55
1:C:607:GLU:CD	4:C:1042:HOH:O	2.50	0.54
1:C:446:LEU:HD13	1:C:459:PHE:HE2	1.73	0.53
1:C:446:LEU:HD13	1:C:459:PHE:CE2	2.43	0.53
1:C:596:CYS:HB2	1:C:625:ILE:HD11	1.90	0.53
1:C:650:THR:CG2	1:C:652:GLU:HG2	2.40	0.52
1:B:650:THR:HG22	1:B:652:GLU:H	1.75	0.52
1:B:363:LEU:CD1	1:B:363:LEU:C	2.83	0.52
1:C:659:VAL:O	1:C:660:SER:C	2.52	0.51
1:B:602:LEU:HD11	1:B:614:ILE:CG2	2.41	0.51
1:B:361:ALA:N	1:B:362:PRO:CD	2.74	0.51
1:C:650:THR:HG22	1:C:652:GLU:HG2	1.93	0.50
1:B:516:LYS:HG3	1:B:517:ASP:N	2.25	0.50
1:C:363:LEU:CD2	1:C:658:LEU:HD11	2.41	0.50
1:B:363:LEU:HD13	1:B:608:PHE:CZ	2.47	0.50
1:B:590:MET:HE2	1:B:592:LEU:HD21	1.93	0.49
1:B:695:LEU:HD12	1:B:695:LEU:N	2.29	0.48
1:B:583:ALA:HB1	1:B:712:ILE:HD12	1.96	0.47
1:B:594:PHE:HE1	1:B:600:ILE:HD12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:419:ASN:OD1	1:B:467:ARG:HG3	2.15	0.47
1:B:477:LEU:HD12	1:B:477:LEU:N	2.31	0.46
1:C:347:LEU:HG	1:C:411:TYR:HB3	1.98	0.46
2:M:1:VAL:N	4:M:103:HOH:O	2.35	0.46
1:C:477:LEU:HD12	1:C:477:LEU:N	2.31	0.46
1:C:673:SER:O	1:C:674:SER:HB2	2.15	0.46
1:B:363:LEU:C	1:B:363:LEU:HD12	2.41	0.46
1:C:351:MET:HE3	1:C:360:LYS:HA	1.98	0.46
1:B:514:PHE:CD2	1:B:536:MET:HG2	2.52	0.45
1:B:694:GLY:C	1:B:695:LEU:HD12	2.42	0.45
1:B:508:ASN:ND2	1:B:516:LYS:CE	2.80	0.45
1:C:586:LEU:HD21	1:C:606:ALA:HB2	1.99	0.45
1:B:650:THR:CG2	1:B:651:PRO:HD2	2.47	0.45
1:C:601:GLN:HB2	1:C:619:VAL:HG11	1.99	0.45
1:B:615:TYR:HA	1:B:668:LEU:O	2.16	0.44
1:B:621:LYS:HE3	1:B:625:ILE:O	2.18	0.44
1:C:361:ALA:N	1:C:362:PRO:CD	2.80	0.44
1:B:715:LEU:C	4:B:829:HOH:O	2.61	0.44
1:C:590:MET:HE2	1:C:592:LEU:HD21	2.01	0.43
1:C:506:LEU:HD12	1:C:506:LEU:N	2.33	0.43
1:C:607:GLU:HB3	1:C:608:PHE:CD2	2.54	0.43
1:C:644:LYS:O	1:C:648:LYS:HE2	2.19	0.43
1:B:650:THR:HG22	1:B:652:GLU:OE1	2.19	0.43
1:B:504:SER:O	1:B:505:GLY:C	2.61	0.43
1:C:630:ALA:HA	1:C:687:CYS:O	2.17	0.43
1:C:363:LEU:C	1:C:363:LEU:HD23	2.45	0.42
1:C:694:GLY:O	1:C:695:LEU:C	2.63	0.42
1:B:695:LEU:N	1:B:695:LEU:CD1	2.83	0.42
1:C:644:LYS:O	1:C:648:LYS:CE	2.67	0.42
1:C:615:TYR:HA	1:C:668:LEU:O	2.19	0.41
1:B:593:LYS:HE3	4:B:817:HOH:O	2.21	0.40
1:C:638:ASP:HB2	4:C:957:HOH:O	2.21	0.40
1:B:639:LEU:CB	1:B:641:ILE:HD12	2.52	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	B	360/390 (92%)	346 (96%)	11 (3%)	3 (1%)	16	5
1	C	355/390 (91%)	344 (97%)	11 (3%)	0	100	100
2	L	2/6 (33%)	2 (100%)	0	0	100	100
2	M	2/6 (33%)	2 (100%)	0	0	100	100
All	All	719/792 (91%)	694 (96%)	22 (3%)	3 (0%)	30	15

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	505	GLY
1	B	503	HIS
1	B	581	ALA

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	B	316/347 (91%)	308 (98%)	8 (2%)	42	22
1	C	312/347 (90%)	307 (98%)	5 (2%)	55	38
2	L	4/4 (100%)	4 (100%)	0	100	100
2	M	4/4 (100%)	4 (100%)	0	100	100
All	All	636/702 (91%)	623 (98%)	13 (2%)	48	29

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	363	LEU
1	B	401	LEU
1	B	472	ASP
1	B	504	SER
1	B	506	LEU
1	B	626	ILE
1	B	641	ILE
1	B	693	SER
1	C	401	LEU
1	C	452	LYS
1	C	480	LEU
1	C	641	ILE
1	C	652	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	356	HIS
1	B	371	ASN
1	B	438	ASN
1	B	468	ASN
1	B	503	HIS
1	B	508	ASN
1	B	540	HIS
1	B	703	GLN
1	C	356	HIS
1	C	371	ASN
1	C	375	GLN
1	C	438	ASN
1	C	503	HIS
1	C	508	ASN
1	C	681	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 oligosaccharides 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 [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	B	364/390 (93%)	0.59	44 (12%)  	13, 29, 67, 100	0
1	C	363/390 (93%)	0.55	52 (14%)  	12, 27, 69, 95	0
2	L	4/6 (66%)	0.98	0  	29, 34, 48, 52	0
2	M	4/6 (66%)	-0.09	0  	20, 21, 31, 33	0
All	All	735/792 (92%)	0.57	96 (13%)  	12, 28, 68, 100	0

All (96) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	580	TRP	12.9
1	C	698	THR	8.9
1	C	695	LEU	8.0
1	C	718	HIS	5.9
1	C	699	VAL	5.6
1	B	640	ASP	5.5
1	B	506	LEU	5.5
1	C	659	VAL	5.4
1	B	472	ASP	5.4
1	B	565	GLN	5.2
1	B	503	HIS	5.2
1	C	660	SER	5.1
1	C	666	HIS	5.0
1	B	476	ILE	5.0
1	C	474	ILE	5.0
1	C	476	ILE	4.9
1	C	477	LEU	4.8
1	B	474	ILE	4.8
1	B	715	LEU	4.8
1	B	659	VAL	4.7
1	B	583	ALA	4.7

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Mol	Chain	Res	Type	RSRZ
1	B	581	ALA	4.6
1	B	642	ASP	4.4
1	B	475	PRO	4.3
1	B	470	TYR	4.3
1	B	477	LEU	4.2
1	C	642	ASP	4.2
1	B	584	HIS	4.1
1	C	475	PRO	4.1
1	C	643	PRO	3.9
1	C	625	ILE	3.9
1	C	694	GLY	3.9
1	C	637	LEU	3.8
1	B	389	TYR	3.5
1	B	643	PRO	3.5
1	B	657	TYR	3.5
1	B	641	ILE	3.4
1	C	640	ASP	3.4
1	C	717	MET	3.3
1	C	626	ILE	3.3
1	B	505	GLY	3.2
1	C	700	GLU	3.2
1	C	716	ASP	3.2
1	C	641	ILE	3.1
1	B	582	LYS	3.1
1	C	644	LYS	3.1
1	C	581	ALA	2.8
1	C	584	HIS	2.8
1	B	697	ASP	2.8
1	C	693	SER	2.8
1	B	433	PRO	2.7
1	B	501	ILE	2.7
1	B	504	SER	2.7
1	C	577	ASN	2.7
1	B	586	LEU	2.7
1	C	565	GLN	2.7
1	B	661	LYS	2.7
1	B	471	ASP	2.7
1	C	591	CYS	2.7
1	B	481	LYS	2.7
1	C	354	ARG	2.6
1	B	542	THR	2.6
1	C	592	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
1	C	658	LEU	2.6
1	B	626	ILE	2.6
1	B	680	GLU	2.6
1	C	687	CYS	2.6
1	C	692	TYR	2.6
1	C	709	LYS	2.6
1	B	437	GLU	2.6
1	B	693	SER	2.5
1	B	540	HIS	2.5
1	C	599	GLN	2.5
1	C	473	THR	2.5
1	C	705	VAL	2.5
1	C	478	ASP	2.4
1	C	600	ILE	2.4
1	C	623	PRO	2.4
1	C	627	MET	2.4
1	B	650	THR	2.4
1	B	678	LEU	2.3
1	C	631	TYR	2.3
1	C	432	ASN	2.3
1	C	679	LYS	2.3
1	C	578	LEU	2.2
1	B	478	ASP	2.2
1	C	650	THR	2.2
1	B	544	GLY	2.2
1	C	598	VAL	2.1
1	C	704	GLU	2.1
1	B	644	LYS	2.1
1	B	473	THR	2.1
1	C	503	HIS	2.1
1	C	543	LYS	2.1
1	C	633	THR	2.1
1	B	467	ARG	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 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($\text{\AA}^2$)	Q<0.9
3	MG	C	801	1/1	0.99	0.06	8,8,8,8	0
3	MG	C	802	1/1	0.99	0.06	24,24,24,24	0

6.5 Other polymers [i](#)

There are no such residues in this entry.