



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:34 PM UTC

PDB ID : 1RC5 / pdb_00001rc5
Title : CRYSTAL STRUCTURE OF MG(II)-COMPLEX OF RNASE III ENDONUCLEASE DOMAIN FROM AQUIFEX AEOLICUS AT 2.30 ANGSTROM RESOLUTION
Authors : Blaszczyk, J.; Gan, J.; Ji, X.
Deposited on : 2003-11-03
Resolution : 2.30 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

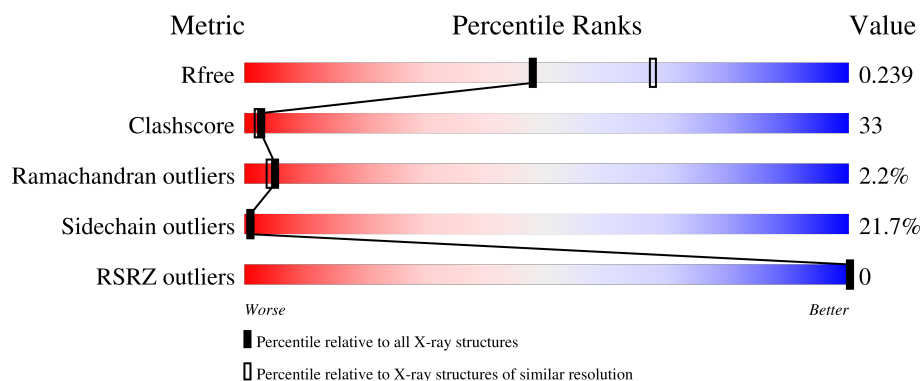
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	154	 45% 38% 12% . .
1	B	154	 43% 36% 16% . .
1	C	154	 38% 43% 16% . .
1	D	154	 36% 40% 19% . .

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5608 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 Ribonuclease III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	148	Total	C	N	O	S	0	0	0
			1225	805	198	220	2			
1	B	149	Total	C	N	O	S	0	2	0
			1244	817	202	223	2			
1	C	149	Total	C	N	O	S	0	0	0
			1235	811	201	221	2			
1	D	148	Total	C	N	O	S	0	0	0
			1225	805	198	220	2			

There are 28 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	SEE REMARK 999	UNP O67082
A	148	HIS	-	SEE REMARK 999	UNP O67082
A	149	HIS	-	SEE REMARK 999	UNP O67082
A	150	HIS	-	SEE REMARK 999	UNP O67082
A	151	HIS	-	SEE REMARK 999	UNP O67082
A	152	HIS	-	SEE REMARK 999	UNP O67082
A	153	HIS	-	SEE REMARK 999	UNP O67082
B	200	GLY	-	SEE REMARK 999	UNP O67082
B	348	HIS	-	SEE REMARK 999	UNP O67082
B	349	HIS	-	SEE REMARK 999	UNP O67082
B	350	HIS	-	SEE REMARK 999	UNP O67082
B	351	HIS	-	SEE REMARK 999	UNP O67082
B	352	HIS	-	SEE REMARK 999	UNP O67082
B	353	HIS	-	SEE REMARK 999	UNP O67082
C	400	GLY	-	SEE REMARK 999	UNP O67082
C	548	HIS	-	SEE REMARK 999	UNP O67082
C	549	HIS	-	SEE REMARK 999	UNP O67082
C	550	HIS	-	SEE REMARK 999	UNP O67082
C	551	HIS	-	SEE REMARK 999	UNP O67082
C	552	HIS	-	SEE REMARK 999	UNP O67082
C	553	HIS	-	SEE REMARK 999	UNP O67082

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Chain	Residue	Modelled	Actual	Comment	Reference
D	600	GLY	-	SEE REMARK 999	UNP O67082
D	748	HIS	-	SEE REMARK 999	UNP O67082
D	749	HIS	-	SEE REMARK 999	UNP O67082
D	750	HIS	-	SEE REMARK 999	UNP O67082
D	751	HIS	-	SEE REMARK 999	UNP O67082
D	752	HIS	-	SEE REMARK 999	UNP O67082
D	753	HIS	-	SEE REMARK 999	UNP O67082

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Mg 1 1	0	0
2	B	1	Total Mg 1 1	0	0
2	C	1	Total Mg 1 1	0	0
2	D	1	Total Mg 1 1	0	0

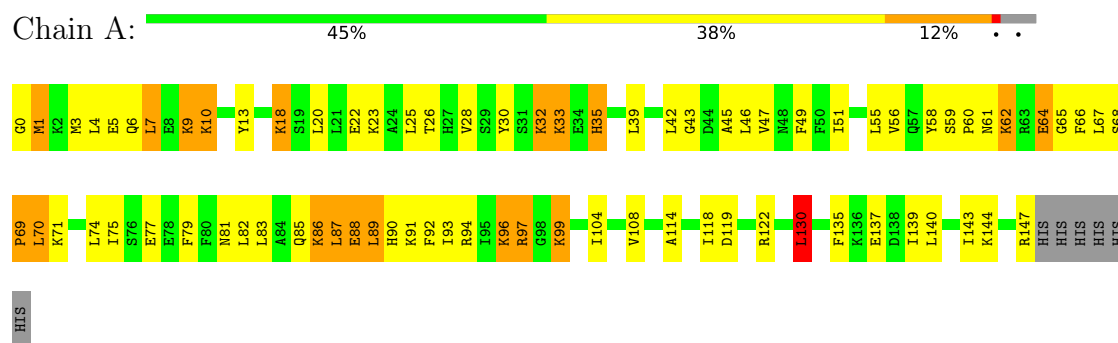
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	213	Total O 213 213	0	0
3	B	144	Total O 144 144	0	0
3	C	172	Total O 172 172	0	0
3	D	146	Total O 146 146	0	0

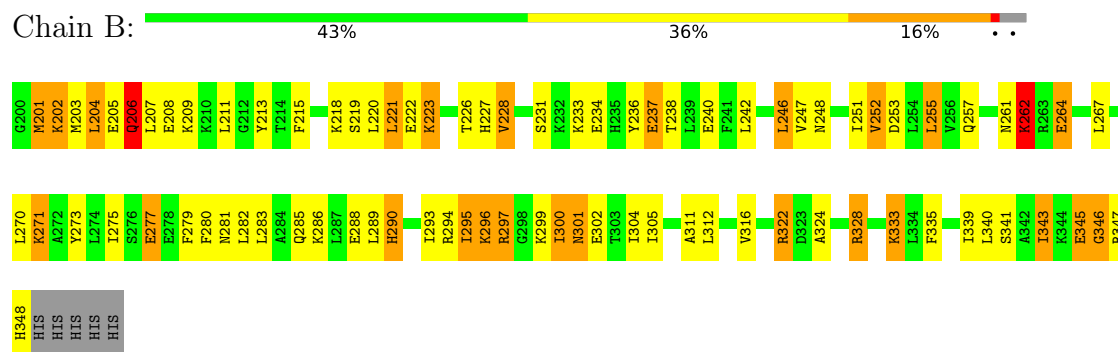
3 Residue-property plots

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.

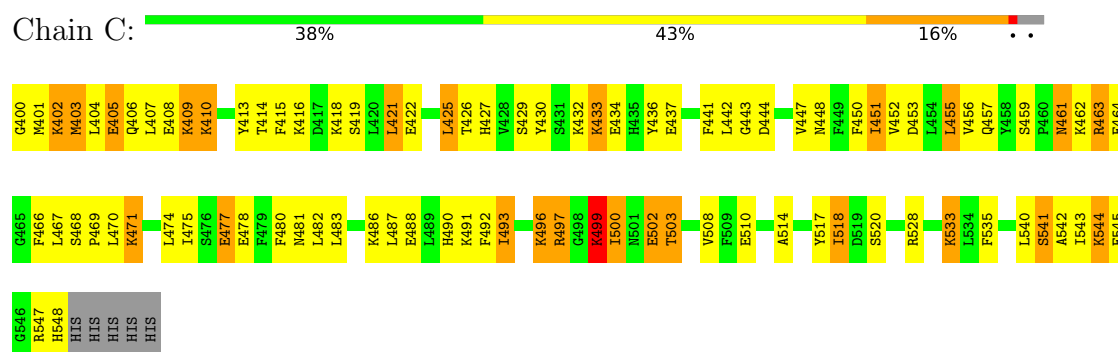
• Molecule 1: Ribonuclease III



• Molecule 1: Ribonuclease III



• Molecule 1: Ribonuclease III



• Molecule 1: Ribonuclease III

Chain D:



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	49.74Å 140.86Å 49.75Å 90.00° 117.29° 90.00°	Depositor
Resolution (Å)	30.00 – 2.30 30.00 – 2.30	Depositor EDS
% Data completeness (in resolution range)	85.1 (30.00-2.30) 87.7 (30.00-2.30)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.46 (at 2.31Å)	Xtriage
Refinement program	SHELXL-97	Depositor
R, R_{free}	0.197 , 0.255 0.199 , 0.239	Depositor DCC
R_{free} test set	1177 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å ²)	22.6	Xtriage
Anisotropy	0.533	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 69.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.26$	Xtriage
Estimated twinning fraction	0.057 for -h-l,k,h 0.057 for l,k,-h-l 0.077 for h,-k,-h-l 0.059 for -h-l,-k,l 0.460 for l,-k,h	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5608	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.66% 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: 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	A	0.36	0/1250	1.22	9/1675 (0.5%)
1	B	0.36	0/1279	1.15	3/1713 (0.2%)
1	C	0.38	0/1261	1.20	9/1690 (0.5%)
1	D	0.38	0/1250	1.11	4/1675 (0.2%)
All	All	0.37	0/5040	1.17	25/6753 (0.4%)

There are no bond length outliers.

All (25) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	499	LYS	O-C-N	-7.79	114.47	123.27
1	C	500	ILE	N-CA-CB	7.36	118.56	110.53
1	B	290	HIS	CA-C-N	7.01	130.25	120.29
1	B	290	HIS	C-N-CA	7.01	130.25	120.29
1	A	45	ALA	CA-C-N	6.77	130.20	120.79
1	A	45	ALA	C-N-CA	6.77	130.20	120.79
1	B	301	ASN	CA-CB-CG	6.64	119.24	112.60
1	C	403	MET	N-CA-C	-6.34	104.24	112.23
1	A	7	LEU	CA-C-N	6.19	128.57	120.28
1	A	7	LEU	C-N-CA	6.19	128.57	120.28
1	C	477	GLU	CA-C-N	5.76	127.92	120.44
1	C	477	GLU	C-N-CA	5.76	127.92	120.44
1	D	629	SER	CA-C-N	5.50	128.42	120.38
1	D	629	SER	C-N-CA	5.50	128.42	120.38
1	C	471	LYS	CA-C-N	5.49	129.93	121.19
1	C	471	LYS	C-N-CA	5.49	129.93	121.19
1	A	35	HIS	CA-CB-CG	5.37	119.17	113.80
1	A	130	LEU	CA-C-N	5.24	128.27	120.31
1	A	130	LEU	C-N-CA	5.24	128.27	120.31
1	A	58	TYR	CA-C-N	-5.19	113.71	120.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	58	TYR	C-N-CA	-5.19	113.71	120.67
1	C	499	LYS	CA-C-N	5.14	128.76	121.66
1	C	499	LYS	C-N-CA	5.14	128.76	121.66
1	D	654	LEU	CA-C-N	5.06	128.41	120.82
1	D	654	LEU	C-N-CA	5.06	128.41	120.82

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	1225	0	1257	79	0
1	B	1244	0	1272	71	0
1	C	1235	0	1261	89	0
1	D	1225	0	1254	103	0
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
3	A	213	0	0	14	0
3	B	144	0	0	13	0
3	C	172	0	0	7	0
3	D	146	0	0	12	0
All	All	5608	0	5044	331	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 33.

All (331) 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:345:GLU:HA	1:B:345:GLU:OE1	1.41	1.13
1:A:1:MET:HE3	1:A:4:LEU:HG	1.35	1.08
1:D:700:ILE:HG22	1:D:701:ASN:H	1.11	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:430:TYR:HA	1:C:496:LYS:HD3	1.47	0.93
1:B:202:LYS:HG3	1:B:206:GLN:HB2	1.50	0.93
1:B:255:LEU:HD13	1:B:267:LEU:HD22	1.51	0.91
1:D:700:ILE:HG22	1:D:701:ASN:N	1.80	0.88
1:B:261:ASN:O	1:B:262:LYS:HE3	1.79	0.83
1:A:90:HIS:HA	1:A:93:ILE:HD12	1.59	0.82
1:C:499:LYS:HE2	1:C:499:LYS:O	1.79	0.81
1:C:455:LEU:HD22	1:C:474:LEU:HD12	1.63	0.80
1:A:1:MET:CE	1:A:4:LEU:HG	2.12	0.79
1:A:139:ILE:O	1:A:143:ILE:HG13	1.83	0.79
1:D:736:LYS:HD2	3:D:1247:HOH:O	1.82	0.78
1:B:281:ASN:O	1:B:285:GLN:HG2	1.84	0.78
1:C:437:GLU:OE2	1:D:664:GLU:HG3	1.83	0.77
1:B:219:SER:HA	1:B:222:GLU:HG3	1.67	0.77
1:C:466:PHE:HE1	1:C:548:HIS:H	1.33	0.77
1:A:0:GLY:O	1:A:4:LEU:HB2	1.84	0.76
3:B:1007:HOH:O	1:D:633:LYS:HE3	1.85	0.76
1:D:683:LEU:O	1:D:686:LYS:HB2	1.85	0.76
1:C:402:LYS:HG2	3:C:1192:HOH:O	1.86	0.75
1:D:623:LYS:HG2	1:D:635:HIS:O	1.88	0.74
1:C:401:MET:HE1	1:C:403:MET:HG2	1.70	0.73
1:D:735:PHE:O	1:D:739:ILE:HG13	1.88	0.73
1:B:226:THR:HG21	1:B:231:SER:HB3	1.70	0.73
1:D:694:ARG:HD3	3:D:1386:HOH:O	1.87	0.72
1:D:613:TYR:OH	1:D:616:LYS:HE2	1.89	0.72
1:C:402:LYS:HD2	1:C:405:GLU:HB2	1.72	0.72
1:B:295:ILE:HD13	1:B:300:ILE:HA	1.73	0.71
1:A:18:LYS:HB2	3:A:1504:HOH:O	1.90	0.71
1:B:345:GLU:OE1	1:B:345:GLU:CA	2.31	0.71
1:B:296:LYS:HD3	1:B:297:ARG:HD3	1.72	0.71
1:B:301:ASN:HA	3:B:1595:HOH:O	1.90	0.70
1:D:681:ASN:O	1:D:685:GLN:HG2	1.92	0.70
1:A:13:TYR:HB2	1:A:130:LEU:HD11	1.73	0.70
1:C:402:LYS:HD2	1:C:405:GLU:H	1.56	0.70
1:D:629:SER:OG	1:D:695:ILE:HG13	1.92	0.70
1:C:413:TYR:HA	3:C:1510:HOH:O	1.92	0.69
1:D:670:LEU:HD21	1:D:743:ILE:O	1.93	0.69
1:A:135:PHE:O	1:A:139:ILE:HG13	1.93	0.69
1:C:502:GLU:HG2	3:C:1097:HOH:O	1.91	0.69
1:B:294:ARG:HD3	3:B:1214:HOH:O	1.93	0.68
1:A:43:GLY:O	1:A:47:VAL:HG23	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:661:ASN:ND2	1:D:663:ARG:H	1.90	0.68
1:A:79:PHE:CZ	1:A:83:LEU:HD21	2.29	0.68
1:B:206:GLN:HG3	1:B:209:LYS:HE2	1.76	0.68
1:D:693:ILE:HG22	1:D:695:ILE:HG22	1.75	0.68
1:C:408:GLU:HG2	1:C:414:THR:HA	1.76	0.68
1:A:96:LYS:HG2	1:A:97:ARG:HD2	1.77	0.67
1:A:59:SER:O	1:A:62:LYS:HE3	1.94	0.67
1:C:453:ASP:O	1:C:457:GLN:HG3	1.94	0.67
1:B:203:MET:HG3	1:B:204:LEU:H	1.59	0.67
1:B:347:ARG:HB2	3:B:1291:HOH:O	1.94	0.67
1:B:204:LEU:HG	3:B:1337:HOH:O	1.94	0.66
1:D:658:TYR:O	1:D:743:ILE:HG21	1.96	0.66
1:A:56:VAL:HG21	1:B:242:LEU:HB2	1.78	0.66
1:D:700:ILE:CG2	1:D:701:ASN:H	1.90	0.66
1:D:700:ILE:O	1:D:701:ASN:HB2	1.96	0.66
1:B:253:ASP:O	1:B:257:GLN:HG3	1.96	0.65
1:C:401:MET:O	1:C:401:MET:HE2	1.97	0.65
1:C:405:GLU:HG3	3:C:1084:HOH:O	1.95	0.65
1:A:82:LEU:HD11	3:A:1634:HOH:O	1.97	0.65
1:B:236:TYR:OH	1:B:304:ILE:HG13	1.97	0.64
1:A:147:ARG:HA	3:A:1437:HOH:O	1.97	0.64
1:A:9:LYS:HE3	1:A:9:LYS:O	1.98	0.64
1:D:739:ILE:O	1:D:743:ILE:HD12	1.98	0.64
1:A:61:ASN:HB3	1:A:66:PHE:CD2	2.33	0.63
1:B:271:LYS:HE3	3:B:1429:HOH:O	1.99	0.63
1:D:676:SER:HB2	3:D:1389:HOH:O	1.98	0.63
1:D:693:ILE:HD11	1:D:708:VAL:HG11	1.80	0.63
1:A:55:LEU:HD11	1:A:70:LEU:HD13	1.79	0.63
1:A:71:LYS:HE2	1:A:75:ILE:HD13	1.81	0.63
1:B:286:LYS:HG2	3:B:1316:HOH:O	1.98	0.63
1:C:409:LYS:NZ	1:C:410:LYS:HE2	2.14	0.62
1:D:697:ARG:HG2	3:D:1176:HOH:O	1.99	0.62
1:A:22:GLU:HB3	1:A:94:ARG:HH21	1.65	0.62
1:B:300:ILE:HG13	1:B:304:ILE:HG21	1.82	0.62
1:D:640:GLU:HG3	1:D:641:PHE:N	2.13	0.61
1:A:55:LEU:HD11	1:A:70:LEU:CD1	2.30	0.61
1:C:470:LEU:HD11	1:C:543:ILE:HG23	1.81	0.61
1:A:28:VAL:HB	1:A:35:HIS:CD2	2.35	0.61
3:A:1589:HOH:O	1:B:322:ARG:HD3	1.99	0.61
1:C:470:LEU:HD13	1:C:543:ILE:HG12	1.83	0.61
1:C:477:GLU:OE1	1:C:503:THR:HG22	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:22:GLU:HB3	1:A:94:ARG:NH2	2.16	0.60
1:C:441:PHE:CZ	1:D:671:LYS:HD2	2.37	0.60
1:C:459:SER:HB3	1:C:462:LYS:HZ3	1.66	0.60
1:D:627:HIS:CE1	1:D:628:VAL:HG23	2.36	0.60
1:D:628:VAL:HG11	3:D:1450:HOH:O	2.01	0.60
1:D:653:ASP:O	1:D:657:GLN:HG3	2.02	0.59
1:D:615:PHE:CD1	1:D:621:LEU:HD12	2.37	0.59
1:B:247:VAL:O	1:B:251:ILE:HD13	2.02	0.59
1:B:203:MET:HG3	1:B:204:LEU:N	2.17	0.58
1:D:661:ASN:OD1	1:D:663:ARG:HG3	2.04	0.58
1:A:30:TYR:CE1	1:A:94:ARG:HD2	2.38	0.58
1:C:450:PHE:CD1	1:C:528:ARG:HG3	2.39	0.58
1:C:475:ILE:HA	1:C:480:PHE:CE1	2.38	0.58
1:C:416:LYS:NZ	1:C:520:SER:HA	2.18	0.58
1:C:443:GLY:HA3	1:C:510:GLU:O	2.03	0.58
1:C:466:PHE:O	1:C:469:PRO:HD2	2.04	0.58
1:D:660:PRO:HD2	1:D:666:PHE:CE2	2.39	0.58
1:D:686:LYS:HE3	1:D:738:ASP:OD2	2.03	0.58
1:D:601:MET:O	1:D:602:LYS:HG3	2.04	0.57
1:D:732:TYR:O	1:D:736:LYS:HB2	2.04	0.57
1:B:295:ILE:CD1	1:B:300:ILE:HA	2.34	0.57
1:C:455:LEU:CD2	1:C:474:LEU:HD12	2.33	0.57
1:A:20:LEU:HD23	1:A:119:ASP:HB2	1.86	0.57
1:D:701:ASN:ND2	3:D:1566:HOH:O	2.38	0.57
1:A:97:ARG:HD2	1:A:97:ARG:H	1.68	0.57
1:B:280:PHE:HA	1:B:283:LEU:HD12	1.86	0.57
1:A:1:MET:HE3	1:A:4:LEU:CG	2.24	0.57
1:B:201:MET:O	1:B:202:LYS:HB2	2.04	0.57
1:D:602:LYS:HB3	1:D:606:GLN:HG3	1.87	0.57
1:D:747:ARG:HA	3:D:1148:HOH:O	2.05	0.57
1:A:0:GLY:HA2	3:A:1301:HOH:O	2.05	0.56
1:A:71:LYS:HD2	3:A:1370:HOH:O	2.04	0.56
1:B:227:HIS:CE1	1:B:228:VAL:HG23	2.40	0.56
1:C:441:PHE:HZ	1:D:671:LYS:HD2	1.71	0.56
1:B:208:GLU:HB3	1:B:213:TYR:O	2.04	0.56
1:D:658:TYR:CD2	1:D:740:LEU:HD11	2.41	0.56
1:C:402:LYS:CD	1:C:405:GLU:HB2	2.35	0.56
1:B:347:ARG:O	1:B:348:HIS:HB2	2.04	0.55
1:C:514:ALA:O	1:C:518:ILE:HG13	2.05	0.55
1:D:654:LEU:HD13	1:D:732:TYR:CZ	2.42	0.55
1:A:70:LEU:O	1:A:74:LEU:HG	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:661:ASN:HB3	1:D:666:PHE:CG	2.41	0.55
1:D:602:LYS:HD3	1:D:606:GLN:HG3	1.89	0.55
1:A:89:LEU:O	1:A:93:ILE:HG13	2.06	0.55
1:C:467:LEU:HB3	1:D:641:PHE:CZ	2.41	0.55
1:B:218:LYS:O	1:B:222:GLU:HG3	2.06	0.55
1:D:679:PHE:CE2	1:D:683:LEU:HD11	2.41	0.55
1:A:33:LYS:HB2	3:A:1171:HOH:O	2.07	0.55
1:B:333:LYS:HD2	3:B:1264:HOH:O	2.07	0.54
1:D:701:ASN:O	1:D:705:ILE:HG13	2.07	0.54
1:D:605:GLU:O	1:D:608:GLU:HG3	2.08	0.54
1:D:661:ASN:HD21	1:D:663:ARG:CB	2.20	0.54
1:B:237:GLU:HB3	3:B:1231:HOH:O	2.07	0.54
1:B:279:PHE:CE2	1:B:283:LEU:HD11	2.44	0.53
1:B:312:LEU:O	1:B:316:VAL:HG23	2.08	0.53
1:D:700:ILE:CG2	1:D:701:ASN:N	2.54	0.53
1:B:275:ILE:HA	1:B:280:PHE:CE1	2.42	0.53
1:D:686:LYS:CE	1:D:738:ASP:OD2	2.56	0.53
1:C:404:LEU:O	1:C:407:LEU:HB3	2.08	0.53
1:C:409:LYS:HZ2	1:C:410:LYS:HE2	1.71	0.53
1:B:279:PHE:CE1	1:B:282:LEU:HD22	2.44	0.53
1:B:226:THR:CG2	1:B:231:SER:HB3	2.38	0.53
1:B:275:ILE:HG13	1:B:275:ILE:O	2.08	0.53
1:C:410:LYS:HE3	1:C:488:GLU:OE2	2.09	0.53
1:C:433:LYS:O	1:C:434:GLU:HG3	2.09	0.52
3:A:1068:HOH:O	1:D:696:LYS:HD3	2.10	0.52
1:A:71:LYS:O	1:A:75:ILE:HG12	2.09	0.52
1:C:466:PHE:C	1:C:469:PRO:HD2	2.35	0.52
1:A:7:LEU:HD23	1:A:25:LEU:HD11	1.91	0.52
1:C:481:ASN:CG	1:C:502:GLU:HG3	2.35	0.52
1:D:661:ASN:HD22	1:D:666:PHE:HB3	1.75	0.52
1:D:661:ASN:CG	1:D:663:ARG:HG3	2.35	0.51
1:B:277:GLU:HG3	1:B:302:GLU:O	2.10	0.51
1:D:630:TYR:HB2	1:D:695:ILE:HA	1.92	0.51
1:D:675:ILE:HA	1:D:680:PHE:CE1	2.44	0.51
1:D:689:LEU:O	1:D:693:ILE:HG12	2.10	0.51
1:B:270:LEU:HD11	1:B:346:GLY:HA2	1.92	0.51
1:B:277:GLU:OE2	1:B:302:GLU:HB3	2.10	0.51
1:C:540:LEU:O	1:C:544:LYS:HG2	2.11	0.51
1:A:55:LEU:HD13	1:A:74:LEU:HD12	1.93	0.51
1:D:663:ARG:HG2	3:D:1303:HOH:O	2.10	0.51
1:A:88:GLU:HG3	1:A:91:LYS:HE3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:ASN:O	1:B:252:VAL:HG13	2.11	0.51
1:C:401:MET:CE	1:C:403:MET:HG2	2.40	0.51
1:D:661:ASN:HD21	1:D:663:ARG:HB2	1.75	0.51
1:D:693:ILE:CD1	1:D:708:VAL:HG11	2.40	0.51
3:A:1047:HOH:O	1:B:264:GLU:HG3	2.10	0.51
1:C:462:LYS:N	1:C:462:LYS:HD2	2.26	0.50
1:A:0:GLY:H2	1:A:4:LEU:HB3	1.75	0.50
1:A:96:LYS:HG2	1:A:97:ARG:NH1	2.25	0.50
1:A:10:LYS:HE3	1:A:87:LEU:O	2.11	0.50
1:A:64:GLU:HG3	1:A:65:GLY:N	2.26	0.50
1:B:236:TYR:HB2	1:B:311:ALA:CB	2.41	0.50
1:D:699:LYS:O	1:D:700:ILE:O	2.30	0.50
1:B:340:LEU:O	1:B:343:ILE:HB	2.11	0.50
1:C:437:GLU:OE2	1:D:663:ARG:HB3	2.11	0.50
1:A:32:LYS:HE3	3:A:1423:HOH:O	2.11	0.50
1:B:300:ILE:HG13	1:B:304:ILE:CG2	2.42	0.50
1:C:402:LYS:HG3	1:C:405:GLU:HB2	1.93	0.50
1:C:456:VAL:HG11	1:D:642:LEU:HG	1.94	0.50
1:D:602:LYS:HB3	1:D:606:GLN:CG	2.41	0.50
1:C:483:LEU:HB3	1:C:535:PHE:CE1	2.47	0.49
1:A:1:MET:HG3	1:A:4:LEU:H	1.77	0.49
1:C:426:THR:CG2	1:C:430:TYR:HB3	2.42	0.49
1:C:419:SER:HA	1:C:422:GLU:HG3	1.94	0.49
1:A:99:LYS:HD3	1:A:99:LYS:N	2.27	0.49
1:D:661:ASN:ND2	1:D:663:ARG:HG3	2.27	0.49
1:A:10:LYS:HD3	3:A:1300:HOH:O	2.13	0.49
1:A:28:VAL:HG23	1:A:32:LYS:HA	1.95	0.49
1:B:301:ASN:O	1:B:304:ILE:HG22	2.12	0.49
1:B:223:LYS:CG	1:B:234:GLU:HB3	2.43	0.49
1:B:226:THR:O	1:B:236:TYR:HD1	1.95	0.49
3:C:1013:HOH:O	1:D:671:LYS:HE3	2.12	0.48
1:A:49:PHE:CE1	1:B:246:LEU:HD23	2.48	0.48
1:D:616:LYS:HG2	1:D:719:ASP:OD2	2.14	0.48
1:B:255:LEU:HD21	1:B:270:LEU:HD23	1.95	0.48
1:A:0:GLY:C	1:A:5:GLU:HG3	2.38	0.48
1:C:464:GLU:OE1	1:C:464:GLU:HA	2.12	0.48
1:C:415:PHE:CE1	1:C:421:LEU:HG	2.49	0.48
1:B:215:PHE:CE1	1:B:221:LEU:HG	2.48	0.48
1:D:685:GLN:HG2	1:D:685:GLN:H	1.38	0.48
1:D:707:ASP:O	1:D:710:GLU:HB2	2.14	0.48
1:C:487:LEU:O	1:C:488:GLU:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:ALA:O	1:A:118:ILE:HG13	2.14	0.47
1:D:738:ASP:O	1:D:739:ILE:C	2.57	0.47
1:C:455:LEU:HD11	1:C:470:LEU:HD13	1.96	0.47
1:C:415:PHE:CD1	1:C:421:LEU:HG	2.49	0.47
1:C:459:SER:HB3	1:C:462:LYS:NZ	2.30	0.47
1:C:470:LEU:O	1:C:474:LEU:HG	2.14	0.47
1:D:681:ASN:CG	1:D:702:GLU:HG2	2.40	0.47
1:C:447:VAL:O	1:C:451:ILE:HG13	2.14	0.47
1:C:451:ILE:O	1:C:455:LEU:HB2	2.15	0.47
1:D:626:THR:O	1:D:636:TYR:HD2	1.97	0.47
1:D:669:PRO:O	1:D:672:ALA:HB3	2.15	0.47
1:B:255:LEU:CD1	1:B:267:LEU:HD22	2.34	0.47
1:C:416:LYS:HZ1	1:C:520:SER:HA	1.79	0.47
1:D:661:ASN:HB3	1:D:666:PHE:CB	2.45	0.47
1:B:273:TYR:HB2	1:B:348:HIS:HB2	1.96	0.46
1:D:654:LEU:HD22	1:D:732:TYR:CE1	2.50	0.46
1:A:13:TYR:HB2	1:A:130:LEU:CD1	2.44	0.46
1:C:443:GLY:O	1:C:447:VAL:HG23	2.16	0.46
1:D:629:SER:HG	1:D:695:ILE:HG13	1.81	0.46
1:D:689:LEU:CD2	1:D:708:VAL:HG12	2.45	0.46
1:C:461:ASN:OD1	1:C:463:ARG:NH2	2.48	0.46
1:A:67:LEU:HA	1:A:70:LEU:HD11	1.97	0.46
1:B:285:GLN:HB3	3:B:1196:HOH:O	2.15	0.46
1:D:626:THR:CG2	1:D:631:SER:HB3	2.46	0.46
1:A:23:LYS:HD3	3:A:1025:HOH:O	2.16	0.45
1:D:737:GLU:OE1	1:D:737:GLU:HA	2.08	0.45
1:A:0:GLY:O	1:A:1:MET:HG3	2.16	0.45
1:C:468:SER:HB2	1:C:469:PRO:HD3	1.98	0.45
1:C:490:HIS:HB2	1:C:500:ILE:HD11	1.98	0.45
1:B:277:GLU:HB2	3:B:1255:HOH:O	2.17	0.45
1:B:324:ALA:O	1:B:328:ARG:HB2	2.17	0.45
1:A:137:GLU:N	3:A:1366:HOH:O	2.48	0.45
1:B:297:ARG:HD2	1:B:297:ARG:HA	1.73	0.45
1:A:68:SER:HB2	1:A:69:PRO:HD3	1.98	0.45
1:A:82:LEU:O	1:A:86:LYS:NZ	2.46	0.45
1:C:517:TYR:OH	1:D:728:ARG:NH2	2.49	0.45
1:C:528:ARG:NH1	1:D:717:TYR:OH	2.50	0.45
1:D:604:LEU:HB3	1:D:605:GLU:H	1.69	0.45
1:D:626:THR:OG1	1:D:694:ARG:NH2	2.50	0.45
1:D:677:GLU:OE2	1:D:702:GLU:HB3	2.16	0.45
1:C:461:ASN:HD22	1:C:461:ASN:H	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:LEU:HD22	1:A:92:PHE:CG	2.52	0.45
1:B:297:ARG:NH2	3:B:1129:HOH:O	2.50	0.45
1:A:104:ILE:O	1:A:108:VAL:HG23	2.17	0.45
1:B:293:ILE:HG22	1:B:295:ILE:HG22	1.99	0.45
1:D:628:VAL:HG22	3:D:1127:HOH:O	2.16	0.45
1:C:400:GLY:HA2	1:C:422:GLU:OE2	2.17	0.45
1:C:405:GLU:HA	1:C:408:GLU:HB2	1.99	0.45
1:D:689:LEU:HD21	1:D:708:VAL:HG12	1.98	0.45
1:C:426:THR:HG23	1:C:430:TYR:HB3	1.99	0.45
1:A:1:MET:HG2	1:A:4:LEU:HB2	1.99	0.44
1:D:656:VAL:O	1:D:662:LYS:NZ	2.50	0.44
1:B:209:LYS:O	1:B:209:LYS:HG2	2.16	0.44
1:C:470:LEU:CD1	1:C:543:ILE:HG23	2.47	0.44
1:C:497:ARG:NH2	3:C:1186:HOH:O	2.50	0.44
1:C:402:LYS:HE3	1:C:405:GLU:OE1	2.17	0.44
1:C:406:GLN:O	1:C:410:LYS:HG2	2.18	0.44
1:D:734:LEU:HB3	1:D:735:PHE:CE1	2.53	0.44
1:D:744:LYS:HA	1:D:744:LYS:HD3	1.45	0.44
1:A:96:LYS:HG2	1:A:97:ARG:CD	2.46	0.44
1:C:490:HIS:CE1	1:C:491:LYS:HG3	2.53	0.44
1:D:610:LYS:HD2	1:D:610:LYS:HA	1.72	0.44
1:A:30:TYR:CZ	1:A:94:ARG:HD2	2.53	0.43
1:A:62:LYS:HD2	1:A:62:LYS:HA	1.73	0.43
1:C:403:MET:HE3	1:C:492:PHE:CD2	2.53	0.43
1:D:626:THR:HG21	1:D:631:SER:HB3	2.00	0.43
1:D:636:TYR:HB2	1:D:711:ALA:CB	2.48	0.43
1:D:739:ILE:HG22	1:D:743:ILE:CD1	2.47	0.43
1:A:9:LYS:HA	1:A:9:LYS:HD2	1.49	0.43
1:B:302:GLU:HB2	3:C:1106:HOH:O	2.18	0.43
1:B:340:LEU:HD23	1:B:340:LEU:N	2.32	0.43
1:C:427:HIS:HD2	1:C:436:TYR:OH	2.01	0.43
1:D:739:ILE:HG22	1:D:743:ILE:HD11	1.99	0.43
1:A:23:LYS:O	1:A:23:LYS:HG2	2.16	0.43
1:A:81:ASN:O	1:A:85:GLN:HG3	2.19	0.43
1:C:533:LYS:HE2	1:C:533:LYS:HB2	1.75	0.43
1:D:682:LEU:HD23	1:D:682:LEU:HA	1.73	0.43
1:A:122:ARG:O	1:B:328:ARG:NH2	2.50	0.43
1:C:421:LEU:HD22	1:C:425:LEU:CD2	2.49	0.43
1:C:461:ASN:HD22	1:C:461:ASN:N	2.17	0.43
1:C:442:LEU:HD23	1:C:514:ALA:HB1	1.99	0.43
1:D:729:GLU:HG3	3:D:1508:HOH:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:VAL:HB	1:A:35:HIS:CG	2.54	0.43
1:D:747:ARG:HA	1:D:747:ARG:HD3	1.60	0.42
1:C:402:LYS:HD3	1:C:402:LYS:HA	1.40	0.42
1:C:470:LEU:HD23	1:C:470:LEU:HA	1.80	0.42
1:D:613:TYR:HB2	1:D:730:LEU:HD11	1.99	0.42
1:C:493:ILE:HD13	1:C:508:VAL:HG21	2.01	0.42
1:A:43:GLY:N	1:A:114:ALA:HB2	2.34	0.42
1:A:97:ARG:H	1:A:97:ARG:CD	2.32	0.42
1:A:62:LYS:NZ	3:A:1114:HOH:O	2.50	0.42
1:A:10:LYS:HE3	1:A:87:LEU:C	2.44	0.42
1:C:408:GLU:HG2	1:C:413:TYR:O	2.20	0.42
1:A:26:THR:HA	1:A:94:ARG:HB2	2.02	0.42
1:A:55:LEU:HD13	1:A:74:LEU:CD1	2.49	0.42
1:A:59:SER:HA	1:A:60:PRO:HD3	1.83	0.42
1:D:679:PHE:HA	1:D:682:LEU:HB2	2.01	0.42
1:A:23:LYS:HD2	1:A:39:LEU:HD11	2.02	0.41
1:D:654:LEU:HD12	1:D:654:LEU:HA	1.85	0.41
1:D:703:THR:HG22	1:D:704:ILE:N	2.33	0.41
1:C:483:LEU:HB3	1:C:535:PHE:CD1	2.54	0.41
1:C:541:SER:OG	1:C:542:ALA:N	2.52	0.41
1:A:0:GLY:O	1:A:5:GLU:HG3	2.19	0.41
1:C:415:PHE:O	1:C:418:LYS:NZ	2.49	0.41
1:D:668:SER:N	1:D:669:PRO:HD2	2.34	0.41
1:C:429:SER:O	1:C:496:LYS:HE2	2.21	0.41
1:D:730:LEU:HD23	1:D:730:LEU:HA	1.94	0.41
1:B:227:HIS:HA	1:B:236:TYR:CE1	2.56	0.41
1:A:83:LEU:N	1:A:83:LEU:HD23	2.36	0.41
1:D:627:HIS:HD2	1:D:636:TYR:OH	2.03	0.41
1:A:71:LYS:CE	1:A:75:ILE:HD13	2.50	0.41
1:B:203:MET:HG3	1:B:204:LEU:HD23	2.03	0.41
1:B:207:LEU:O	1:B:211:LEU:HG	2.21	0.41
1:B:238:THR:HB	3:B:1239:HOH:O	2.20	0.41
1:B:288:GLU:HA	1:B:290:HIS:CE1	2.56	0.41
1:C:448:ASN:O	1:C:452:VAL:HG23	2.21	0.41
1:D:733:LYS:NZ	3:D:1447:HOH:O	2.52	0.41
1:A:140:LEU:HD23	1:A:140:LEU:HA	1.90	0.40
1:C:404:LEU:O	1:C:407:LEU:N	2.54	0.40
1:D:663:ARG:NE	3:D:1303:HOH:O	2.53	0.40
1:C:416:LYS:HZ2	1:C:520:SER:HA	1.85	0.40
1:C:441:PHE:O	1:C:444:ASP:HB3	2.21	0.40
1:A:1:MET:HG2	1:A:4:LEU:HG	2.04	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	146/154 (95%)	134 (92%)	9 (6%)	3 (2%)	5	4
1	B	149/154 (97%)	132 (89%)	14 (9%)	3 (2%)	6	5
1	C	147/154 (96%)	136 (92%)	11 (8%)	0	100	100
1	D	146/154 (95%)	123 (84%)	16 (11%)	7 (5%)	2	1
All	All	588/616 (96%)	525 (89%)	50 (8%)	13 (2%)	5	4

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	97	ARG
1	B	206	GLN
1	D	700	ILE
1	D	701	ASN
1	A	3	MET
1	D	601	MET
1	D	602	LYS
1	D	660	PRO
1	D	746	GLY
1	B	262	LYS
1	D	745	GLU
1	A	69	PRO
1	B	346	GLY

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	131/137 (96%)	109 (83%)	22 (17%)	2	2
1	B	134/137 (98%)	98 (73%)	36 (27%)	0	0
1	C	132/137 (96%)	104 (79%)	28 (21%)	1	1
1	D	131/137 (96%)	101 (77%)	30 (23%)	1	1
All	All	528/548 (96%)	412 (78%)	116 (22%)	1	1

All (116) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	MET
1	A	6	GLN
1	A	9	LYS
1	A	10	LYS
1	A	18	LYS
1	A	32	LYS
1	A	33	LYS
1	A	42	LEU
1	A	46	LEU
1	A	51	ILE
1	A	62	LYS
1	A	64	GLU
1	A	70	LEU
1	A	77	GLU
1	A	86	LYS
1	A	87	LEU
1	A	88	GLU
1	A	89	LEU
1	A	96	LYS
1	A	99	LYS
1	A	130	LEU
1	A	144	LYS
1	B	201	MET
1	B	202	LYS
1	B	204	LEU
1	B	205[A]	GLU
1	B	205[B]	GLU
1	B	206	GLN
1	B	220	LEU
1	B	221	LEU

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Mol	Chain	Res	Type
1	B	223	LYS
1	B	228	VAL
1	B	233	LYS
1	B	237	GLU
1	B	240	GLU
1	B	246	LEU
1	B	252	VAL
1	B	255	LEU
1	B	262	LYS
1	B	264	GLU
1	B	271	LYS
1	B	277	GLU
1	B	289	LEU
1	B	295	ILE
1	B	296	LYS
1	B	297	ARG
1	B	299[A]	LYS
1	B	299[B]	LYS
1	B	300	ILE
1	B	305	ILE
1	B	322	ARG
1	B	328	ARG
1	B	333	LYS
1	B	335	PHE
1	B	339	ILE
1	B	341	SER
1	B	343	ILE
1	B	345	GLU
1	C	402	LYS
1	C	405	GLU
1	C	409	LYS
1	C	410	LYS
1	C	421	LEU
1	C	425	LEU
1	C	432	LYS
1	C	433	LYS
1	C	451	ILE
1	C	455	LEU
1	C	461	ASN
1	C	463	ARG
1	C	471	LYS
1	C	478	GLU

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Mol	Chain	Res	Type
1	C	482	LEU
1	C	486	LYS
1	C	493	ILE
1	C	496	LYS
1	C	497	ARG
1	C	499	LYS
1	C	502	GLU
1	C	503	THR
1	C	518	ILE
1	C	533	LYS
1	C	541	SER
1	C	544	LYS
1	C	545	GLU
1	C	547	ARG
1	D	604	LEU
1	D	606	GLN
1	D	609	LYS
1	D	610	LYS
1	D	618	LYS
1	D	628	VAL
1	D	633	LYS
1	D	640	GLU
1	D	642	LEU
1	D	644	ASP
1	D	646	LEU
1	D	654	LEU
1	D	662	LYS
1	D	663	ARG
1	D	664	GLU
1	D	674	LEU
1	D	682	LEU
1	D	685	GLN
1	D	694	ARG
1	D	696	LYS
1	D	703	THR
1	D	704	ILE
1	D	733	LYS
1	D	737	GLU
1	D	739	ILE
1	D	740	LEU
1	D	741	SER
1	D	743	ILE

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Mol	Chain	Res	Type
1	D	744	LYS
1	D	747	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	HIS
1	A	85	GLN
1	B	261	ASN
1	B	290	HIS
1	B	348	HIS
1	C	435	HIS
1	C	485	GLN
1	D	661	ASN
1	D	701	ASN

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 4 ligands modelled in this entry, 4 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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	148/154 (96%)	-1.55	0 100 100	15, 25, 55, 88	0
1	B	149/154 (96%)	-1.45	0 100 100	14, 32, 73, 118	2 (1%)
1	C	149/154 (96%)	-1.53	0 100 100	13, 26, 64, 79	0
1	D	148/154 (96%)	-1.49	0 100 100	17, 32, 68, 92	0
All	All	594/616 (96%)	-1.51	0 100 100	13, 28, 67, 118	2 (0%)

There are no RSRZ outliers to report.

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(Å ²)	Q<0.9
2	MG	D	764	1/1	0.99	0.03	24,24,24,24	0
2	MG	B	762	1/1	1.00	0.01	19,19,19,19	0
2	MG	C	763	1/1	1.00	0.03	15,15,15,15	0
2	MG	A	761	1/1	1.00	0.02	19,19,19,19	0

6.5 Other polymers [i](#)

There are no such residues in this entry.