



Full wwPDB X-ray Structure Validation Report ⓘ

May 28, 2020 – 08:27 pm BST

PDB ID : 1S55
Title : Mouse RANKL Structure at 1.9A Resolution
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Deposited on : 2004-01-19
Resolution : 1.90 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

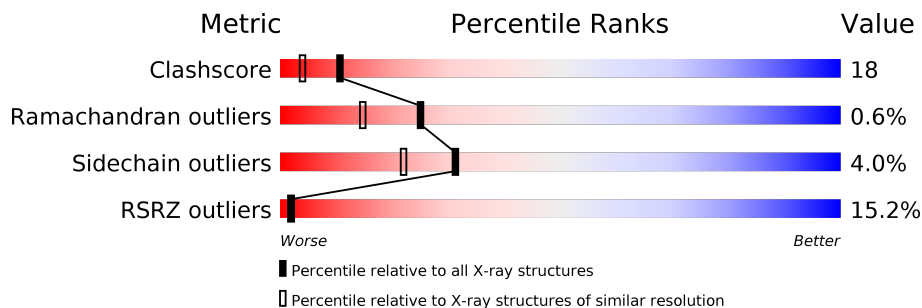
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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))
Clashscore	141614	6847 (1.90-1.90)
Ramachandran outliers	138981	6760 (1.90-1.90)
Sidechain outliers	138945	6760 (1.90-1.90)
RSRZ outliers	127900	6082 (1.90-1.90)

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 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	156	
1	B	156	
1	C	156	

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 3917 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 Tumor necrosis factor ligand superfamily member 11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	156	1233	787	210	232	4	0	0	0
1	B	156	1233	787	210	232	4	0	0	0
1	C	156	1233	787	210	232	4	0	0	0

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Cl	0	0
			1	1		
2	A	2	Total	Cl	0	0
			2	2		

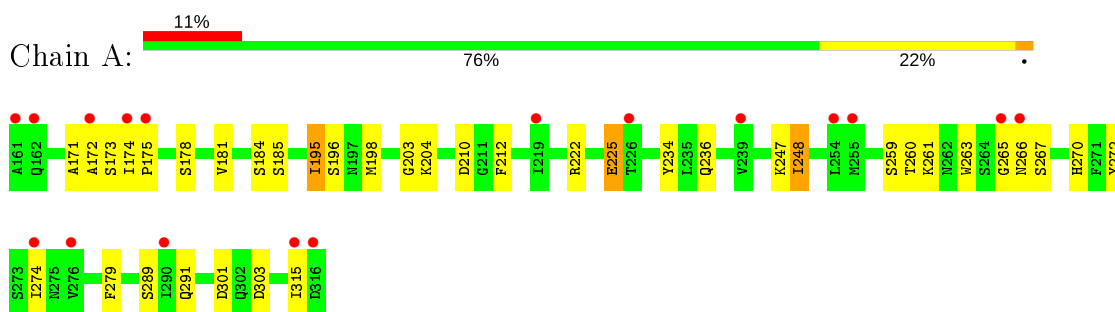
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	110	Total	O	0	0
			110	110		
3	B	45	Total	O	0	0
			45	45		
3	C	60	Total	O	0	0
			60	60		

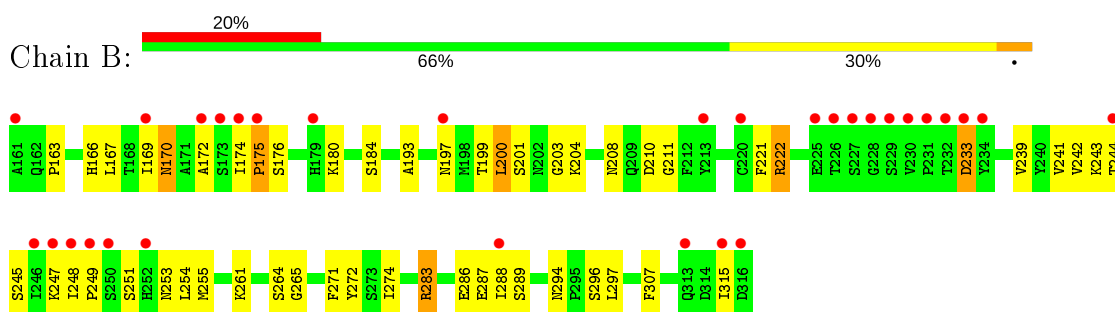
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

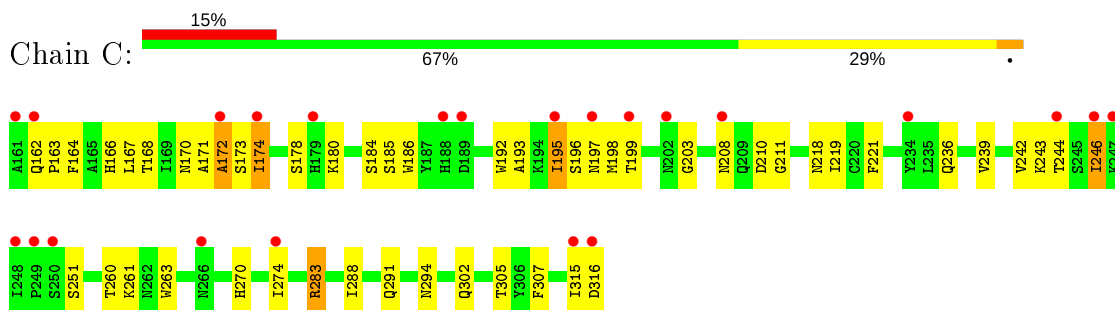
- Molecule 1: Tumor necrosis factor ligand superfamily member 11



- Molecule 1: Tumor necrosis factor ligand superfamily member 11



- Molecule 1: Tumor necrosis factor ligand superfamily member 11



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	65.53Å 81.32Å 99.81Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.43 – 1.90 45.43 – 1.90	Depositor EDS
% Data completeness (in resolution range)	83.9 (45.43-1.90) 91.6 (45.43-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 1.89Å)	Xtrriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.230 , 0.252 0.220 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	38.6	Xtrriage
Anisotropy	0.304	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 51.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	3917	wwPDB-VP
Average B, all atoms (Å ²)	49.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.11% of the height of the origin peak. No significant pseudotranslation is detected.*

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:
CL

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	0.42	0/1268	0.65	0/1718
1	B	0.36	0/1268	0.60	0/1718
1	C	0.36	0/1268	0.57	0/1718
All	All	0.38	0/3804	0.61	0/5154

There are no bond length outliers.

There are no bond angle outliers.

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	1233	0	1182	45	0
1	B	1233	0	1182	51	0
1	C	1233	0	1182	54	0
2	A	2	0	0	0	0
2	B	1	0	0	0	0
3	A	110	0	0	4	0
3	B	45	0	0	2	0
3	C	60	0	0	1	0
All	All	3917	0	3546	133	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 18.

All (133) 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:195:ILE:HD11	1:A:198:MET:HB2	1.39	1.04
1:C:246:ILE:H	1:C:246:ILE:HD13	1.36	0.86
1:C:210:ASP:HB3	1:C:315:ILE:HD12	1.59	0.84
1:A:195:ILE:HD13	1:A:196:SER:N	1.94	0.82
1:C:174:ILE:O	1:C:174:ILE:HD13	1.81	0.81
1:C:171:ALA:HA	1:C:174:ILE:HG23	1.63	0.81
1:B:163:PRO:HB3	1:B:197:ASN:HB3	1.65	0.79
1:C:195:ILE:HD11	1:C:198:MET:HB2	1.65	0.77
1:A:261:LYS:NZ	1:C:261:LYS:NZ	2.34	0.76
1:A:195:ILE:HD11	1:A:198:MET:CB	2.17	0.73
1:B:176:SER:HA	1:B:296:SER:HB3	1.69	0.73
1:A:248:ILE:HD13	1:A:248:ILE:H	1.54	0.71
1:C:199:THR:HG23	1:C:208:ASN:HD21	1.55	0.71
1:A:247:LYS:HE2	3:A:409:HOH:O	1.90	0.70
1:C:195:ILE:HD13	1:C:196:SER:H	1.56	0.69
1:C:174:ILE:HD12	1:C:174:ILE:H	1.58	0.69
1:A:261:LYS:HZ1	1:C:261:LYS:HZ1	1.42	0.66
1:B:233:ASP:HA	1:B:264:SER:HB3	1.77	0.65
1:A:195:ILE:CD1	1:A:198:MET:HB2	2.23	0.65
1:A:195:ILE:HD13	1:A:196:SER:H	1.61	0.65
1:C:174:ILE:N	1:C:174:ILE:HD12	2.12	0.65
1:C:242:VAL:HG11	1:C:251:SER:HB3	1.79	0.65
1:B:170:ASN:HD21	1:B:172:ALA:HB2	1.61	0.64
1:C:195:ILE:CD1	1:C:198:MET:HB2	2.30	0.61
1:B:210:ASP:OD2	1:B:283:ARG:HG3	2.00	0.61
1:C:219:ILE:HD13	1:C:239:VAL:HG21	1.82	0.61
1:C:246:ILE:H	1:C:246:ILE:CD1	2.01	0.61
1:B:211:GLY:HA2	1:B:315:ILE:HG13	1.83	0.60
1:B:199:THR:HG23	1:B:208:ASN:HD21	1.66	0.60
1:C:184:SER:HA	1:C:203:GLY:HA3	1.83	0.60
1:C:170:ASN:HB3	1:C:185:SER:OG	2.01	0.60
1:B:174:ILE:N	1:B:175:PRO:HD3	2.17	0.59
1:A:261:LYS:NZ	1:C:261:LYS:HZ3	1.99	0.59
1:B:242:VAL:HG11	1:B:251:SER:HB3	1.85	0.59
1:A:210:ASP:HB3	1:A:315:ILE:HD12	1.84	0.59
1:A:261:LYS:NZ	1:B:261:LYS:NZ	2.50	0.58
1:C:236:GLN:HG2	1:C:260:THR:HG22	1.85	0.58
1:A:261:LYS:HZ3	1:C:261:LYS:HZ3	1.51	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:195:ILE:HD13	1:C:196:SER:N	2.19	0.57
1:B:294:ASN:HB3	1:B:297:LEU:HD12	1.87	0.57
1:C:174:ILE:N	1:C:174:ILE:CD1	2.67	0.57
1:B:261:LYS:HZ3	1:C:261:LYS:NZ	2.04	0.56
1:A:181:VAL:HG12	3:A:388:HOH:O	2.05	0.55
1:C:180:LYS:HE2	1:C:291:GLN:OE1	2.06	0.55
1:A:204:LYS:HG2	1:A:289:SER:HB3	1.89	0.55
1:B:210:ASP:HB3	1:B:315:ILE:HD12	1.89	0.55
1:A:171:ALA:HA	1:A:174:ILE:CD1	2.37	0.55
1:C:246:ILE:HD13	1:C:246:ILE:N	2.16	0.54
1:A:184:SER:HA	1:A:203:GLY:HA3	1.89	0.54
1:A:274:ILE:N	1:A:274:ILE:HD12	2.23	0.53
1:A:261:LYS:NZ	1:C:261:LYS:HZ1	2.01	0.53
1:B:245:SER:HB3	1:B:248:ILE:HG23	1.90	0.53
1:B:243:LYS:HB2	1:B:254:LEU:HD11	1.92	0.52
1:B:261:LYS:NZ	1:C:261:LYS:NZ	2.58	0.52
1:A:259:SER:HB3	1:B:272:TYR:HA	1.92	0.52
1:B:222:ARG:HH11	1:B:222:ARG:HG3	1.76	0.51
1:B:204:LYS:HD3	1:B:289:SER:HB3	1.92	0.51
1:C:174:ILE:CD1	1:C:174:ILE:H	2.24	0.51
1:A:171:ALA:HA	1:A:174:ILE:HD12	1.93	0.50
1:C:178:SER:HA	1:C:294:ASN:HA	1.93	0.50
1:C:244:THR:HG22	3:C:331:HOH:O	2.12	0.50
1:C:211:GLY:HA2	1:C:315:ILE:HG13	1.94	0.50
1:B:174:ILE:HG13	1:B:174:ILE:O	2.11	0.50
1:B:170:ASN:ND2	1:B:172:ALA:HB2	2.26	0.50
1:C:166:HIS:O	1:C:193:ALA:HA	2.12	0.50
1:C:163:PRO:HG3	1:C:197:ASN:CG	2.32	0.50
1:B:199:THR:HG23	1:B:208:ASN:ND2	2.28	0.49
1:B:167:LEU:HD12	1:B:307:PHE:CZ	2.48	0.49
1:B:265:GLY:HA3	3:B:329:HOH:O	2.13	0.49
1:B:283:ARG:HG3	1:B:283:ARG:HH11	1.78	0.49
1:C:167:LEU:HD12	1:C:307:PHE:CE2	2.48	0.49
1:B:288:ILE:HD12	1:B:288:ILE:N	2.27	0.48
1:C:288:ILE:HD12	1:C:288:ILE:N	2.28	0.48
1:B:184:SER:HA	1:B:203:GLY:HA3	1.95	0.48
1:C:171:ALA:C	1:C:173:SER:H	2.17	0.48
1:B:261:LYS:NZ	1:C:261:LYS:HZ1	2.12	0.48
1:A:259:SER:HB2	1:B:271:PHE:O	2.14	0.47
1:A:236:GLN:HG2	1:A:260:THR:HG22	1.96	0.47
1:A:173:SER:HB2	1:A:185:SER:OG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:186:TRP:CD1	1:C:203:GLY:HA2	2.50	0.47
1:C:170:ASN:OD1	1:C:172:ALA:HB3	2.15	0.47
1:B:221:PHE:HE1	1:B:274:ILE:HD12	1.79	0.47
1:C:168:THR:HG21	1:C:302:GLN:HB2	1.98	0.46
1:A:266:ASN:HB3	1:A:267:SER:H	1.59	0.46
1:A:173:SER:O	1:A:174:ILE:HG13	2.15	0.46
1:C:167:LEU:HD12	1:C:307:PHE:CZ	2.51	0.46
1:B:248:ILE:HG12	1:B:248:ILE:O	2.16	0.46
1:A:234:TYR:CE2	1:A:260:THR:HB	2.51	0.45
1:A:301:ASP:HB3	1:A:303:ASP:OD1	2.16	0.45
1:B:222:ARG:NH1	1:B:222:ARG:HG3	2.31	0.45
1:C:195:ILE:HD12	1:C:198:MET:O	2.15	0.45
1:A:225:GLU:HA	1:A:225:GLU:OE1	2.16	0.45
1:A:261:LYS:HZ1	1:B:261:LYS:HZ1	1.63	0.45
1:B:244:THR:HG22	3:B:352:HOH:O	2.16	0.45
1:B:242:VAL:HG12	1:B:243:LYS:N	2.32	0.45
1:B:247:LYS:O	1:B:248:ILE:C	2.55	0.45
1:A:261:LYS:HZ3	1:B:261:LYS:NZ	2.15	0.44
1:A:272:TYR:CE2	1:A:274:ILE:HG13	2.52	0.44
1:C:221:PHE:HE1	1:C:274:ILE:HD12	1.83	0.44
1:B:248:ILE:N	1:B:249:PRO:CD	2.80	0.44
1:A:261:LYS:HZ1	1:C:261:LYS:NZ	2.02	0.44
1:A:181:VAL:O	1:A:291:GLN:HA	2.18	0.44
1:B:174:ILE:HG23	1:B:174:ILE:O	2.18	0.44
1:C:186:TRP:HD1	1:C:203:GLY:HA2	1.82	0.43
1:A:171:ALA:O	1:A:172:ALA:C	2.55	0.43
1:B:239:VAL:HG12	1:B:274:ILE:HG21	2.00	0.43
1:A:178:SER:HA	3:A:393:HOH:O	2.19	0.43
1:A:248:ILE:HD13	1:A:248:ILE:N	2.30	0.42
1:A:261:LYS:NZ	1:B:261:LYS:HZ1	2.15	0.42
1:B:287:GLU:C	1:B:288:ILE:HD12	2.39	0.42
1:A:212:PHE:HE1	1:A:315:ILE:HA	1.84	0.42
1:B:254:LEU:HD23	1:C:192:TRP:CE2	2.54	0.42
1:B:242:VAL:HG22	1:B:253:ASN:OD1	2.19	0.42
1:A:178:SER:HB2	3:A:350:HOH:O	2.19	0.42
1:A:212:PHE:CE1	1:A:315:ILE:HA	2.55	0.42
1:A:212:PHE:HB3	1:A:279:PHE:CZ	2.55	0.42
1:B:211:GLY:CA	1:B:315:ILE:HG13	2.50	0.42
1:C:283:ARG:HH11	1:C:283:ARG:HG3	1.85	0.42
1:C:218:ASN:O	1:C:305:THR:HA	2.20	0.42
1:B:245:SER:HB2	1:B:286:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:TRP:CE2	1:C:270:HIS:HB3	2.55	0.41
1:C:242:VAL:HG12	1:C:243:LYS:N	2.36	0.41
1:B:166:HIS:O	1:B:193:ALA:HA	2.21	0.41
1:B:170:ASN:ND2	1:B:172:ALA:H	2.18	0.41
1:C:164:PHE:C	1:C:164:PHE:CD1	2.94	0.41
1:A:175:PRO:HG2	1:A:181:VAL:HG21	2.03	0.41
1:A:195:ILE:HD11	1:A:198:MET:CA	2.50	0.41
1:A:263:TRP:CD2	1:A:270:HIS:HB3	2.56	0.41
1:B:200:LEU:HD23	1:B:201:SER:N	2.37	0.40
1:C:196:SER:C	1:C:198:MET:H	2.23	0.40
1:B:261:LYS:HZ1	1:C:261:LYS:HZ1	1.67	0.40
1:C:162:GLN:HA	1:C:163:PRO:HD3	1.90	0.40
1:B:241:VAL:HG21	1:B:255:MET:HE3	2.03	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	154/156 (99%)	149 (97%)	4 (3%)	1 (1%)	25	15
1	B	154/156 (99%)	142 (92%)	11 (7%)	1 (1%)	25	15
1	C	154/156 (99%)	144 (94%)	9 (6%)	1 (1%)	25	15
All	All	462/468 (99%)	435 (94%)	24 (5%)	3 (1%)	25	15

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	265	GLY
1	C	172	ALA
1	B	175	PRO

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	135/135 (100%)	131 (97%)	4 (3%)	41	33
1	B	135/135 (100%)	128 (95%)	7 (5%)	23	14
1	C	135/135 (100%)	130 (96%)	5 (4%)	34	25
All	All	405/405 (100%)	389 (96%)	16 (4%)	31	22

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	195	ILE
1	A	222	ARG
1	A	225	GLU
1	A	248	ILE
1	B	169	ILE
1	B	170	ASN
1	B	180	LYS
1	B	200	LEU
1	B	222	ARG
1	B	233	ASP
1	B	283	ARG
1	C	174	ILE
1	C	195	ILE
1	C	246	ILE
1	C	283	ARG
1	C	316	ASP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	236	GLN
1	A	294	ASN
1	B	170	ASN
1	B	197	ASN
1	B	208	ASN

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Mol	Chain	Res	Type
1	B	209	GLN
1	B	236	GLN
1	B	313	GLN
1	C	197	ASN
1	C	252	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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 3 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	A	156/156 (100%)	0.88	17 (10%) 5 6	23, 35, 65, 75	0
1	B	156/156 (100%)	1.72	31 (19%) 1 1	31, 57, 90, 102	0
1	C	156/156 (100%)	0.93	23 (14%) 2 2	27, 48, 74, 86	0
All	All	468/468 (100%)	1.18	71 (15%) 2 2	23, 46, 82, 102	0

All (71) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	248	ILE	11.9
1	B	229	SER	11.4
1	B	226	THR	9.5
1	B	174	ILE	9.4
1	B	230	VAL	9.3
1	B	231	PRO	9.0
1	B	172	ALA	7.8
1	B	228	GLY	6.9
1	A	316	ASP	6.9
1	B	246	ILE	6.6
1	C	316	ASP	6.5
1	C	161	ALA	6.5
1	A	161	ALA	6.2
1	B	316	ASP	6.1
1	B	234	TYR	5.7
1	C	266	ASN	5.6
1	B	250	SER	5.2
1	C	246	ILE	5.1
1	C	174	ILE	5.1
1	B	173	SER	5.1
1	B	233	ASP	5.1
1	B	161	ALA	4.7
1	B	315	ILE	4.6

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Mol	Chain	Res	Type	RSRZ
1	C	172	ALA	4.4
1	B	247	LYS	4.2
1	C	234	TYR	4.1
1	A	266	ASN	4.1
1	B	232	THR	4.0
1	B	249	PRO	4.0
1	A	172	ALA	3.7
1	B	227	SER	3.5
1	B	213	TYR	3.4
1	A	265	GLY	3.4
1	A	315	ILE	3.3
1	C	315	ILE	3.2
1	B	179	HIS	3.2
1	C	202	ASN	3.2
1	C	162	GLN	3.1
1	C	199	THR	2.9
1	C	189	ASP	2.9
1	B	197	ASN	2.9
1	C	248	ILE	2.8
1	B	288	ILE	2.7
1	B	175	PRO	2.7
1	B	313	GLN	2.6
1	A	274	ILE	2.6
1	C	249	PRO	2.6
1	B	220	CYS	2.6
1	A	276	VAL	2.5
1	A	219	ILE	2.5
1	A	174	ILE	2.5
1	A	290	ILE	2.4
1	A	175	PRO	2.4
1	C	188	HIS	2.4
1	C	247	LYS	2.4
1	B	169	ILE	2.3
1	C	208	ASN	2.3
1	C	195	ILE	2.3
1	A	162	GLN	2.3
1	A	255	MET	2.3
1	B	225	GLU	2.3
1	C	250	SER	2.2
1	A	226	THR	2.1
1	B	244	THR	2.1
1	C	244	THR	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	239	VAL	2.1
1	A	254	LEU	2.1
1	B	252	HIS	2.1
1	C	179	HIS	2.1
1	C	274	ILE	2.1
1	C	197	ASN	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 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. 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	CL	B	317	1/1	0.93	0.08	61,61,61,61	0
2	CL	A	317	1/1	0.99	0.12	33,33,33,33	0
2	CL	A	318	1/1	0.99	0.11	38,38,38,38	0

6.5 Other polymers [i](#)

There are no such residues in this entry.