



Full wwPDB X-ray Structure Validation Report ⓘ

Jan 31, 2016 – 10:04 PM GMT

PDB ID : 1S0P
Title : Structure of the N-Terminal Domain of the Adenylyl Cyclase-Associated Protein (CAP) from Dictyostelium discoideum.
Authors : Ksiazek, D.; Brandstetter, H.; Israel, L.; Bourenkov, G.P.; Katchalova, G.; Janssen, K.P.; Bartunik, H.D.; Noegel, A.A.; Schleicher, M.; Holak, T.A.
Deposited on : 2004-01-01
Resolution : 1.40 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
<http://wwpdb.org/validation/2016/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
Mogul : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : **NOT EXECUTED**
EDS : **NOT EXECUTED**
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

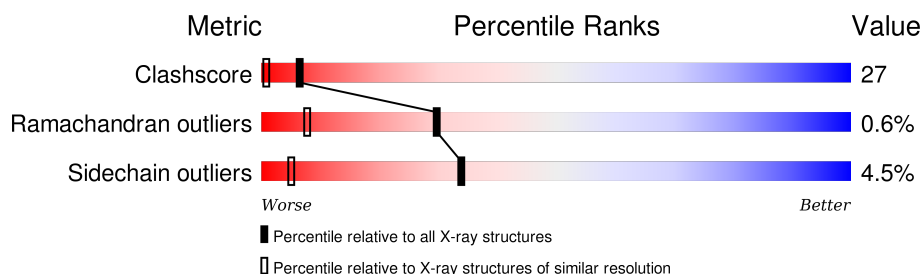
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.40 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	102246	1295 (1.40-1.40)
Ramachandran outliers	100387	1259 (1.40-1.40)
Sidechain outliers	100360	1258 (1.40-1.40)

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. 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.

Note EDS was not executed.

Mol	Chain	Length	Quality of chain
1	A	176	 66% 31% .
1	B	176	 69% 29% ..

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3379 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 Adenylyl cyclase-associated protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	176	Total	C	N	O	S	47	0	0
			1390	886	236	267	1			
1	B	176	Total	C	N	O	S	38	0	0
			1390	886	236	267	1			

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 3 is water.

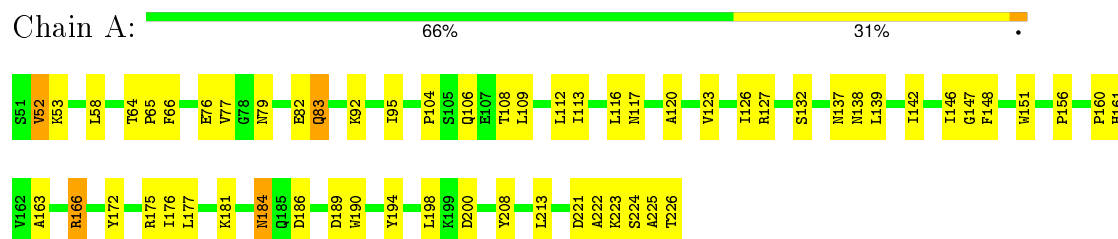
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	293	Total	O	0	0
			293	293		
3	B	305	Total	O	0	0
			305	305		

3 Residue-property plots

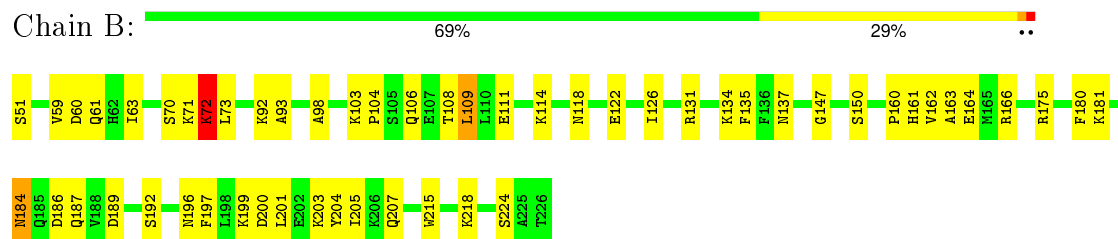
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according 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 ($\text{RSRZ} > 2$). 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.

Note EDS was not executed.

- Molecule 1: Adenylyl cyclase-associated protein



- Molecule 1: Adenylyl cyclase-associated protein



4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section will therefore be incomplete.

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	37.52Å 42.13Å 53.74Å 97.42° 105.09° 97.15°	Depositor
Resolution (Å)	1.80 – 1.40	Depositor
% Data completeness (in resolution range)	(Not available) (1.80-1.40)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
Refinement program	CNS	Depositor
R, R_{free}	0.180 , 0.210	Depositor
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	3379	wwPDB-VP
Average B, all atoms (Å ²)	16.0	wwPDB-VP

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	1.07	3/1419 (0.2%)	1.06	4/1920 (0.2%)
1	B	0.99	0/1419	1.02	5/1920 (0.3%)
All	All	1.03	3/2838 (0.1%)	1.04	9/3840 (0.2%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	208	TYR	CE2-CZ	-5.33	1.31	1.38
1	A	76	GLU	CD-OE2	-5.24	1.19	1.25
1	A	148	PHE	CE1-CZ	5.01	1.46	1.37

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	83	GLN	CA-CB-CG	-11.50	88.09	113.40
1	B	166	ARG	NE-CZ-NH2	-7.15	116.73	120.30
1	B	189	ASP	CB-CG-OD1	-6.73	112.24	118.30
1	B	60	ASP	CB-CG-OD2	6.19	123.88	118.30
1	B	72	LYS	CD-CE-NZ	-5.91	98.10	111.70
1	A	127	ARG	NE-CZ-NH1	-5.82	117.39	120.30
1	A	189	ASP	CB-CG-OD1	-5.80	113.08	118.30
1	B	166	ARG	NE-CZ-NH1	5.54	123.07	120.30
1	A	76	GLU	OE1-CD-OE2	-5.22	117.03	123.30

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	1390	0	1390	81	0
1	B	1390	0	1390	68	1
2	A	1	0	0	0	0
3	A	293	0	0	31	5
3	B	305	0	0	34	9
All	All	3379	0	2780	147	10

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 27.

All (147) 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:184:ASN:HB3	3:B:1090:HOH:O	1.13	1.24
1:B:199:LYS:HB2	3:B:1092:HOH:O	1.35	1.21
1:A:138:ASN:O	3:A:707:HOH:O	1.57	1.21
1:A:142:ILE:HG13	3:A:707:HOH:O	1.39	1.19
1:A:83:GLN:HB2	3:A:713:HOH:O	1.47	1.14
1:B:63:ILE:HD11	1:B:197:PHE:CD1	1.84	1.12
1:B:161:HIS:O	3:B:1084:HOH:O	1.70	1.10
1:B:175:ARG:NH2	3:B:1087:HOH:O	1.85	1.09
1:B:192:SER:HB3	3:B:1091:HOH:O	0.91	1.07
1:A:64:THR:HG23	3:A:1066:HOH:O	1.54	1.07
1:B:131:ARG:HD2	3:B:605:HOH:O	1.55	1.05
1:A:166:ARG:HB3	1:A:166:ARG:HH11	1.21	1.04
1:B:161:HIS:C	3:B:1084:HOH:O	1.99	1.01
1:B:63:ILE:HD11	1:B:197:PHE:CE1	1.99	0.97
1:A:166:ARG:CB	1:A:166:ARG:HH11	1.78	0.97
1:B:196:ASN:O	3:B:1092:HOH:O	1.82	0.97
1:B:59:VAL:HA	1:B:63:ILE:HD13	1.47	0.95
1:A:166:ARG:HB3	1:A:166:ARG:NH1	1.83	0.94
1:B:201:LEU:O	1:B:205:ILE:HD13	1.67	0.94
1:A:117:ASN:HB3	1:B:131:ARG:HD3	1.48	0.93
1:A:132:SER:C	3:A:979:HOH:O	2.05	0.93
1:A:64:THR:CG2	3:A:1066:HOH:O	2.14	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:LEU:HB3	3:B:974:HOH:O	1.73	0.87
1:A:64:THR:CB	3:A:1066:HOH:O	2.23	0.85
1:B:180:PHE:HB3	3:B:1090:HOH:O	1.74	0.84
1:B:207:GLN:HG3	3:B:939:HOH:O	1.75	0.84
1:B:134:LYS:HG3	1:B:135:PHE:CE1	2.11	0.84
1:B:164:GLU:N	3:B:1084:HOH:O	1.89	0.83
1:B:122:GLU:O	1:B:126:ILE:HD13	1.84	0.77
1:A:64:THR:HG22	1:A:65:PRO:HD3	1.67	0.76
1:B:180:PHE:CG	3:B:1090:HOH:O	2.39	0.75
1:A:95:ILE:HD13	1:A:213:LEU:CD1	2.16	0.75
1:A:172:TYR:CE2	3:A:1051:HOH:O	2.40	0.75
1:A:132:SER:O	3:A:979:HOH:O	2.02	0.73
1:A:95:ILE:HD13	1:A:213:LEU:HD11	1.68	0.73
1:B:163:ALA:N	3:B:1084:HOH:O	2.22	0.72
1:A:163:ALA:HA	1:A:166:ARG:HH12	1.54	0.71
1:B:59:VAL:HA	1:B:63:ILE:CD1	2.18	0.71
1:A:120:ALA:HA	1:A:146:ILE:HD13	1.70	0.71
1:B:162:VAL:C	3:B:1084:HOH:O	2.29	0.70
1:B:180:PHE:CD2	3:B:1090:HOH:O	2.44	0.69
1:A:181:LYS:HG2	3:A:1048:HOH:O	1.91	0.69
1:A:108:THR:O	1:A:112:LEU:HD13	1.93	0.69
1:A:64:THR:HG22	1:A:65:PRO:CD	2.23	0.68
1:A:113:ILE:HD12	1:A:116:LEU:HD22	1.74	0.68
1:A:166:ARG:NE	3:A:728:HOH:O	2.28	0.67
1:A:64:THR:CG2	1:A:65:PRO:HD3	2.25	0.67
1:A:176:ILE:HD13	3:A:546:HOH:O	1.95	0.67
1:A:120:ALA:HA	1:A:146:ILE:CD1	2.24	0.67
1:A:190:TRP:HH2	3:A:707:HOH:O	1.78	0.66
1:A:123:VAL:HG11	1:A:146:ILE:HD12	1.78	0.66
1:A:184:ASN:C	1:A:184:ASN:HD22	2.00	0.64
1:B:160:PRO:O	3:B:1084:HOH:O	2.15	0.63
1:B:184:ASN:C	1:B:184:ASN:HD22	1.98	0.63
1:A:64:THR:HB	1:A:65:PRO:CD	2.29	0.62
1:A:161:HIS:HD2	3:B:532:HOH:O	1.83	0.61
1:A:104:PRO:HB3	1:A:222:ALA:HB3	1.82	0.60
1:A:64:THR:HG22	1:A:65:PRO:N	2.16	0.60
1:A:52:VAL:HG13	1:A:92:LYS:HE3	1.84	0.60
1:A:64:THR:CB	1:A:65:PRO:CD	2.79	0.60
1:B:118:ASN:OD1	3:B:1080:HOH:O	2.16	0.59
1:A:117:ASN:HB3	1:B:131:ARG:CD	2.30	0.59
1:A:163:ALA:HA	1:A:166:ARG:NH1	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:204:TYR:HD2	1:B:205:ILE:HD12	1.68	0.59
1:B:126:ILE:HD12	1:B:126:ILE:N	2.18	0.58
1:A:83:GLN:CB	3:A:713:HOH:O	2.23	0.58
1:B:63:ILE:CD1	1:B:197:PHE:CD1	2.73	0.58
1:B:150:SER:HB2	3:B:1083:HOH:O	2.03	0.57
1:B:200:ASP:N	3:B:1092:HOH:O	2.38	0.56
1:A:166:ARG:NH1	3:A:513:HOH:O	2.37	0.56
1:B:72:LYS:CE	3:B:927:HOH:O	2.52	0.56
1:B:147:GLY:O	1:B:161:HIS:HE1	1.89	0.56
1:A:147:GLY:O	1:A:161:HIS:HE1	1.88	0.56
1:A:166:ARG:CB	1:A:166:ARG:NH1	2.55	0.56
3:A:524:HOH:O	1:B:161:HIS:HD2	1.89	0.55
1:A:166:ARG:NH1	3:A:654:HOH:O	2.40	0.54
1:A:222:ALA:O	1:A:224:SER:N	2.31	0.54
1:A:116:LEU:HD12	1:A:116:LEU:N	2.22	0.54
1:A:172:TYR:CZ	3:A:1051:HOH:O	2.33	0.53
1:A:123:VAL:CB	1:A:146:ILE:HD12	2.38	0.53
1:B:137:ASN:HD21	1:B:175:ARG:HH21	1.57	0.53
1:B:93:ALA:HB3	3:B:928:HOH:O	2.08	0.53
1:B:61:GLN:NE2	3:B:701:HOH:O	2.38	0.52
1:A:58:LEU:CD2	1:A:200:ASP:HB3	2.39	0.52
1:B:224:SER:C	3:B:780:HOH:O	2.48	0.52
1:B:205:ILE:HD12	1:B:205:ILE:N	2.25	0.52
1:A:184:ASN:HD21	1:A:186:ASP:HB2	1.76	0.51
1:B:134:LYS:HG3	1:B:135:PHE:CD1	2.44	0.51
1:B:134:LYS:HG2	3:B:787:HOH:O	2.11	0.51
1:A:123:VAL:CG1	1:A:146:ILE:HD12	2.39	0.51
1:B:196:ASN:HA	3:B:1092:HOH:O	2.10	0.50
1:A:95:ILE:HD11	1:A:151:TRP:CH2	2.46	0.50
1:A:137:ASN:HD21	1:A:175:ARG:HH21	1.59	0.50
1:A:95:ILE:CD1	1:A:213:LEU:CD1	2.88	0.50
1:A:83:GLN:HG3	3:A:776:HOH:O	2.10	0.50
1:B:72:LYS:NZ	3:B:927:HOH:O	2.44	0.50
1:A:82:GLU:HG2	3:A:1035:HOH:O	2.12	0.50
1:A:104:PRO:HB2	1:A:108:THR:HB	1.94	0.49
1:B:181:LYS:NZ	3:B:1088:HOH:O	2.44	0.49
1:A:52:VAL:HG13	1:A:92:LYS:CE	2.43	0.49
1:B:204:TYR:CD2	1:B:205:ILE:HD12	2.47	0.48
1:B:70:SER:O	1:B:72:LYS:N	2.46	0.48
1:A:64:THR:CG2	1:A:65:PRO:CD	2.87	0.48
1:B:203:LYS:HE3	1:B:207:GLN:HE22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:187:GLN:HB2	3:B:1090:HOH:O	2.13	0.48
1:A:176:ILE:CD1	3:A:517:HOH:O	2.62	0.47
1:A:79:ASN:HD22	1:A:126:ILE:HD12	1.80	0.47
1:A:53:LYS:NZ	3:A:868:HOH:O	2.35	0.47
1:B:51:SER:N	1:B:204:TYR:HH	2.12	0.46
1:B:70:SER:O	1:B:71:LYS:C	2.54	0.46
1:B:205:ILE:N	1:B:205:ILE:CD1	2.78	0.46
1:A:222:ALA:C	1:A:224:SER:H	2.14	0.46
1:B:63:ILE:HD12	1:B:63:ILE:H	1.80	0.46
1:B:61:GLN:HG3	3:B:955:HOH:O	2.15	0.46
1:B:103:LYS:HD2	1:B:215:TRP:CD1	2.50	0.46
1:A:77:VAL:HG13	3:A:859:HOH:O	2.14	0.46
1:B:70:SER:O	1:B:73:LEU:N	2.46	0.45
1:B:184:ASN:HD21	1:B:186:ASP:HB2	1.81	0.45
1:A:64:THR:CG2	3:A:1064:HOH:O	2.65	0.45
1:A:64:THR:HB	1:A:65:PRO:HD3	1.96	0.45
1:A:177:LEU:O	1:A:181:LYS:HB2	2.16	0.45
1:B:98:ALA:HA	1:B:215:TRP:CE3	2.52	0.45
1:A:66:PHE:CE1	1:A:194:TYR:HB2	2.52	0.45
1:A:160:PRO:HD3	3:A:1052:HOH:O	2.17	0.45
1:A:137:ASN:ND2	1:A:175:ARG:HH21	2.14	0.44
1:B:126:ILE:CD1	1:B:126:ILE:N	2.79	0.44
1:A:116:LEU:N	1:A:116:LEU:CD1	2.80	0.44
1:B:137:ASN:ND2	1:B:175:ARG:HH21	2.15	0.44
1:A:64:THR:HG22	3:A:1064:HOH:O	2.18	0.44
1:A:222:ALA:C	1:A:224:SER:N	2.72	0.44
1:B:92:LYS:NZ	3:B:624:HOH:O	2.45	0.44
1:A:64:THR:HG21	3:A:1034:HOH:O	2.17	0.43
1:B:199:LYS:CA	3:B:1092:HOH:O	2.63	0.43
1:B:175:ARG:HD3	3:B:1087:HOH:O	2.18	0.43
1:B:181:LYS:HE3	1:B:181:LYS:HB2	1.83	0.43
1:A:83:GLN:NE2	3:A:855:HOH:O	2.53	0.42
1:A:64:THR:CB	1:A:65:PRO:HD3	2.47	0.42
1:B:111:GLU:OE2	1:B:114:LYS:NZ	2.49	0.42
1:A:160:PRO:HA	3:A:933:HOH:O	2.20	0.42
1:A:83:GLN:CG	3:A:713:HOH:O	2.63	0.41
1:A:181:LYS:HE3	3:A:1048:HOH:O	2.20	0.41
1:A:120:ALA:HA	1:A:146:ILE:HD11	2.02	0.41
1:A:137:ASN:HB2	1:A:176:ILE:HD11	2.02	0.41
1:B:63:ILE:HD12	1:B:63:ILE:N	2.35	0.41
1:A:123:VAL:HG21	1:A:146:ILE:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:PRO:HB2	1:B:108:THR:HB	2.03	0.41
1:A:116:LEU:H	1:A:116:LEU:CD1	2.34	0.40

All (10) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:795:HOH:O	3:B:1075:HOH:O[1_565]	1.50	0.70
3:A:1052:HOH:O	3:A:1057:HOH:O[1_455]	1.55	0.65
3:A:1053:HOH:O	3:B:1058:HOH:O[1_455]	1.66	0.54
3:A:863:HOH:O	3:B:624:HOH:O[1_454]	1.72	0.48
3:A:1098:HOH:O	3:B:1077:HOH:O[1_454]	1.86	0.34
3:B:987:HOH:O	3:B:998:HOH:O[1_445]	1.89	0.31
3:A:992:HOH:O	3:B:1081:HOH:O[1_565]	2.06	0.14
3:B:851:HOH:O	3:B:866:HOH:O[1_455]	2.12	0.08
3:B:779:HOH:O	3:B:795:HOH:O[1_545]	2.13	0.07
1:B:218:LYS:O	3:B:987:HOH:O[1_665]	2.19	0.01

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	174/176 (99%)	168 (97%)	4 (2%)	2 (1%)	17	2
1	B	174/176 (99%)	168 (97%)	6 (3%)	0	100	100
All	All	348/352 (99%)	336 (97%)	10 (3%)	2 (1%)	30	8

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	225	ALA
1	A	223	LYS

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	154/154 (100%)	144 (94%)	10 (6%)	21	2
1	B	154/154 (100%)	150 (97%)	4 (3%)	54	16
All	All	308/308 (100%)	294 (96%)	14 (4%)	34	5

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	52	VAL
1	A	106	GLN
1	A	109	LEU
1	A	139	LEU
1	A	156	PRO
1	A	166	ARG
1	A	184	ASN
1	A	198	LEU
1	A	221	ASP
1	A	226	THR
1	B	72	LYS
1	B	106	GLN
1	B	109	LEU
1	B	184	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (26) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	56	GLN
1	A	61	GLN
1	A	79	ASN
1	A	83	GLN
1	A	100	GLN
1	A	117	ASN
1	A	137	ASN
1	A	138	ASN

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Mol	Chain	Res	Type
1	A	161	HIS
1	A	174	ASN
1	A	184	ASN
1	A	185	GLN
1	A	193	ASN
1	A	196	ASN
1	B	56	GLN
1	B	117	ASN
1	B	130	ASN
1	B	137	ASN
1	B	138	ASN
1	B	161	HIS
1	B	174	ASN
1	B	184	ASN
1	B	185	GLN
1	B	193	ASN
1	B	196	ASN
1	B	207	GLN

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 1 ligands modelled in this entry, 1 is 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](#)

EDS was not executed - this section will therefore be empty.

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

EDS was not executed - this section will therefore be empty.

6.3 Carbohydrates [i](#)

EDS was not executed - this section will therefore be empty.

6.4 Ligands [i](#)

EDS was not executed - this section will therefore be empty.

6.5 Other polymers [i](#)

EDS was not executed - this section will therefore be empty.