



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 05:49 PM UTC

PDB ID : 5CXK / pdb_00005cxk
Title : Crystal structure of beta carbonic anhydrase from *Vibrio cholerae*
Authors : Ferraroni, M.; Supuran, C.
Deposited on : 2015-07-29
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 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
Mogul	:	2022.3.0, CSD as543be (2022)
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

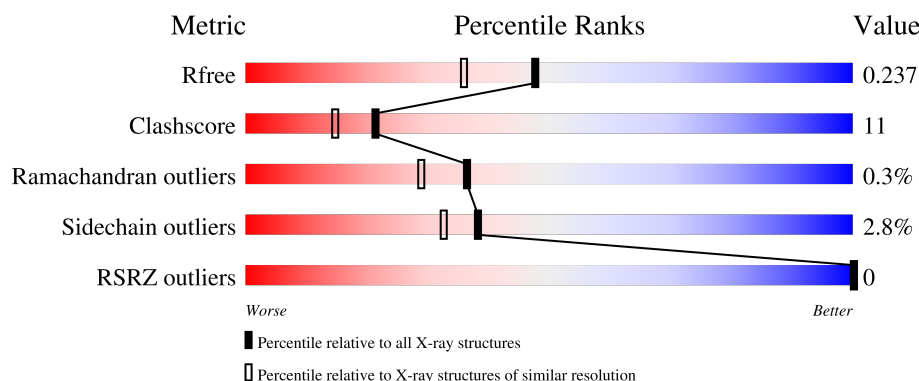
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

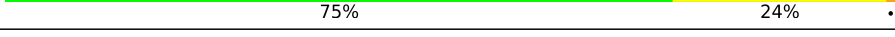
The reported resolution of this entry is 1.90 Å.

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))
R_{free}	180053	7789 (1.90-1.90)
Clashscore	190562	8410 (1.90-1.90)
Ramachandran outliers	187476	8333 (1.90-1.90)
Sidechain outliers	187428	8333 (1.90-1.90)
RSRZ outliers	180081	7790 (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 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	222	
1	B	222	
1	C	222	
1	D	222	
1	E	222	

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Mol	Chain	Length	Quality of chain
1	F	222	 74% 26%
1	G	222	 72% 27% •
1	H	222	 77% 22% •

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 14953 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 Carbonic anhydrase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	222	Total	C	N	O	S	0	0	0
			1759	1114	312	325	8			
1	B	222	Total	C	N	O	S	0	0	0
			1759	1114	312	325	8			
1	H	222	Total	C	N	O	S	0	0	0
			1759	1114	312	325	8			
1	G	222	Total	C	N	O	S	0	1	0
			1765	1119	313	325	8			
1	D	222	Total	C	N	O	S	0	0	0
			1759	1114	312	325	8			
1	C	222	Total	C	N	O	S	0	0	0
			1759	1114	312	325	8			
1	F	222	Total	C	N	O	S	0	0	0
			1763	1116	312	327	8			
1	E	222	Total	C	N	O	S	0	1	0
			1763	1118	312	325	8			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	16	ALA	GLU	conflict	UNP A0A086SLX8
A	136	LYS	GLN	conflict	UNP A0A086SLX8
B	16	ALA	GLU	conflict	UNP A0A086SLX8
B	136	LYS	GLN	conflict	UNP A0A086SLX8
H	16	ALA	GLU	conflict	UNP A0A086SLX8
H	136	LYS	GLN	conflict	UNP A0A086SLX8
G	16	ALA	GLU	conflict	UNP A0A086SLX8
G	136	LYS	GLN	conflict	UNP A0A086SLX8
D	16	ALA	GLU	conflict	UNP A0A086SLX8
D	136	LYS	GLN	conflict	UNP A0A086SLX8
C	16	ALA	GLU	conflict	UNP A0A086SLX8
C	136	LYS	GLN	conflict	UNP A0A086SLX8
F	16	ALA	GLU	conflict	UNP A0A086SLX8

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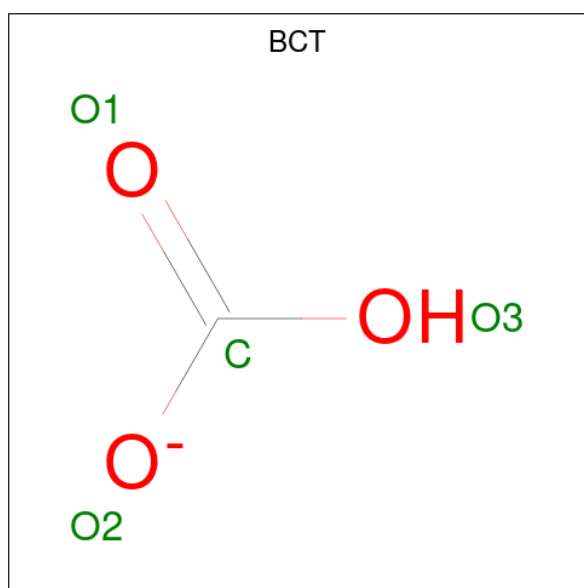
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Chain	Residue	Modelled	Actual	Comment	Reference
F	136	LYS	GLN	conflict	UNP A0A086SLX8
E	16	ALA	GLU	conflict	UNP A0A086SLX8
E	136	LYS	GLN	conflict	UNP A0A086SLX8

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

- Molecule 3 is BICARBONATE ION (CCD ID: BCT) (formula: CHO_3).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 4 1 3	0	0
3	B	1	Total C O 4 1 3	0	0
3	H	1	Total C O 4 1 3	0	0
3	G	1	Total C O 4 1 3	0	0
3	D	1	Total C O 4 1 3	0	0
3	C	1	Total C O 4 1 3	0	0

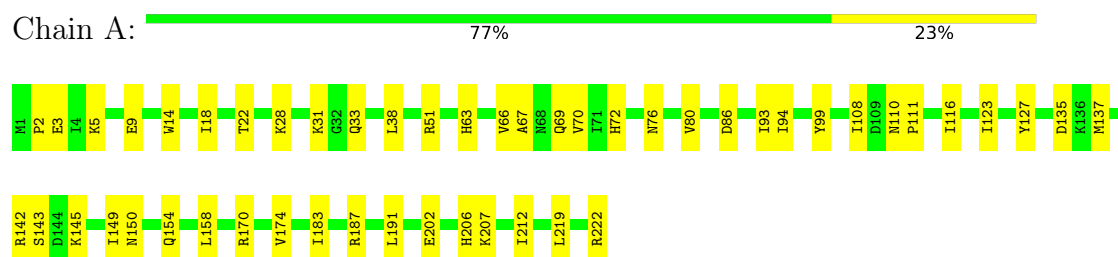
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	135	Total O 135 135	0	0
4	B	139	Total O 139 139	0	0
4	H	126	Total O 126 126	0	0
4	G	129	Total O 129 129	0	0
4	D	66	Total O 66 66	0	0
4	C	76	Total O 76 76	0	0
4	F	80	Total O 80 80	0	0
4	E	84	Total O 84 84	0	0

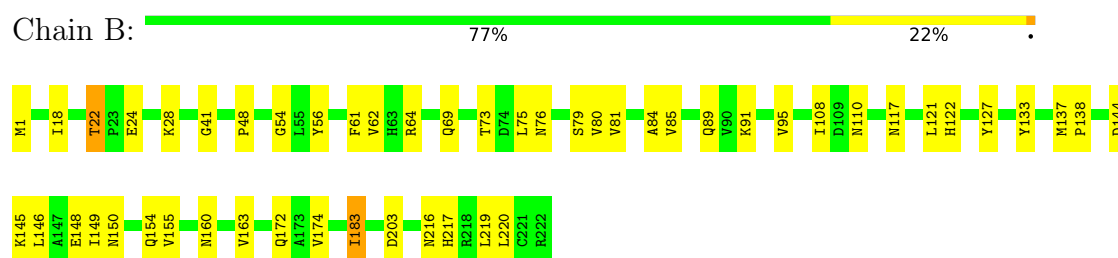
3 Residue-property plots

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.

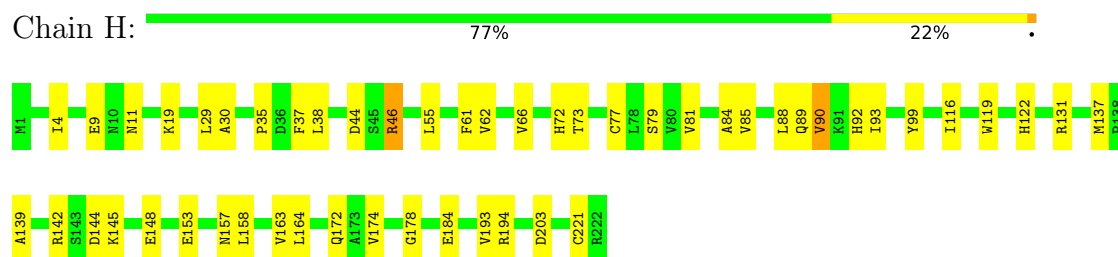
• Molecule 1: Carbonic anhydrase



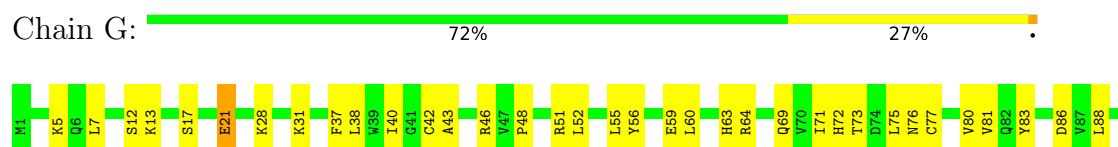
• Molecule 1: Carbonic anhydrase



• Molecule 1: Carbonic anhydrase



• Molecule 1: Carbonic anhydrase





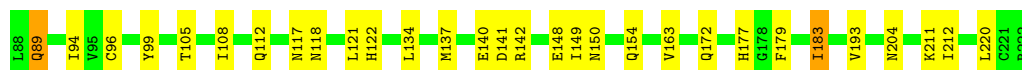
- Molecule 1: Carbonic anhydrase

Chain D: 75% 24%



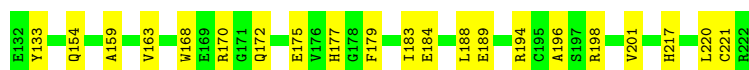
- Molecule 1: Carbonic anhydrase

Chain C: 70% 28%



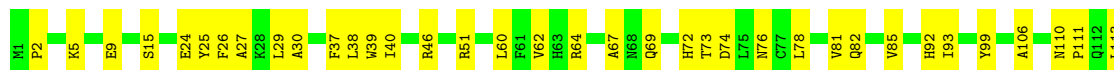
- Molecule 1: Carbonic anhydrase

Chain F: 74% 26%



- Molecule 1: Carbonic anhydrase

Chain E: 70% 30%



4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	84.09Å 84.09Å 316.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.53 – 1.90 47.53 – 1.90	Depositor EDS
% Data completeness (in resolution range)	97.1 (47.53-1.90) 97.1 (47.53-1.90)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 1.90Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
R, R_{free}	0.183 , 0.238 0.183 , 0.237	Depositor DCC
R_{free} test set	8264 reflections (4.81%)	wwPDB-VP
Wilson B-factor (Å ²)	22.7	Xtriage
Anisotropy	0.059	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 26.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.39$, $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	0.478 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	14953	wwPDB-VP
Average B, all atoms (Å ²)	22.0	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 20.03 % 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 9.5161e-03.*

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: ZN, BCT

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	0.58	0/1798	0.98	0/2443
1	B	0.61	0/1798	1.02	4/2443 (0.2%)
1	C	0.57	0/1798	0.93	1/2443 (0.0%)
1	D	0.60	0/1798	0.93	0/2443
1	E	0.53	0/1805	0.94	1/2453 (0.0%)
1	F	0.55	0/1802	0.94	0/2448
1	G	0.60	0/1807	0.98	1/2454 (0.0%)
1	H	0.60	0/1798	0.97	1/2443 (0.0%)
All	All	0.58	0/14404	0.96	8/19570 (0.0%)

There are no bond length outliers.

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	62	VAL	N-CA-C	6.00	116.72	107.78
1	B	62	VAL	N-CA-C	5.95	116.44	107.75
1	G	142	ARG	N-CA-C	5.59	117.82	111.11
1	B	110	ASN	CA-C-N	-5.50	114.92	120.31
1	B	110	ASN	C-N-CA	-5.50	114.92	120.31
1	H	62	VAL	N-CA-C	5.39	115.75	107.77
1	B	149	ILE	N-CA-C	-5.23	105.28	110.62
1	E	121	LEU	N-CA-C	5.07	117.46	111.33

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	1759	0	1714	34	0
1	B	1759	0	1714	37	0
1	C	1759	0	1714	52	0
1	D	1759	0	1714	47	0
1	E	1763	0	1723	50	0
1	F	1763	0	1718	46	0
1	G	1765	0	1727	44	0
1	H	1759	0	1714	39	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
2	E	1	0	0	0	0
2	F	1	0	0	0	0
2	G	1	0	0	0	0
2	H	1	0	0	0	0
3	A	4	0	0	0	0
3	B	4	0	0	0	0
3	C	4	0	0	0	0
3	D	4	0	0	0	0
3	G	4	0	0	1	0
3	H	4	0	0	0	0
4	A	135	0	0	5	0
4	B	139	0	0	8	0
4	C	76	0	0	10	0
4	D	66	0	0	5	0
4	E	84	0	0	10	0
4	F	80	0	0	0	0
4	G	129	0	0	9	0
4	H	126	0	0	8	0
All	All	14953	0	13738	304	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 11.

All (304) 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:D:17:SER:O	1:D:21:GLU:HB3	1.57	1.03
1:C:18:ILE:HB	4:C:433:HOH:O	1.75	0.85
1:H:99:TYR:CE2	1:H:221:CYS:HB2	2.17	0.79
1:D:183:ILE:HD11	1:C:29:LEU:HB3	1.62	0.79
1:D:183:ILE:HB	4:D:403:HOH:O	1.84	0.75
1:D:17:SER:O	1:D:21:GLU:CB	2.35	0.75
1:A:86:ASP:OD1	1:A:170:ARG:NH2	2.20	0.74
1:D:172:GLN:HG2	1:D:174:VAL:HG23	1.69	0.74
1:F:183:ILE:CG1	1:E:29:LEU:HB3	2.18	0.74
1:F:1:MET:HG3	1:E:175:GLU:OE1	1.90	0.72
1:D:86:ASP:OD1	1:D:170:ARG:NH2	2.24	0.71
1:C:117:ASN:OD1	4:C:401:HOH:O	2.09	0.71
1:A:69:GLN:HG2	4:A:463:HOH:O	1.90	0.71
1:E:216:ASN:HB2	4:E:459:HOH:O	1.91	0.71
1:H:37:PHE:HD1	1:H:92:HIS:HB2	1.55	0.70
1:H:84:ALA:O	1:H:90:VAL:HG13	1.91	0.70
1:G:55:LEU:HB3	1:G:59:GLU:OE1	1.95	0.67
1:C:60:LEU:HG	4:C:449:HOH:O	1.93	0.67
1:G:17:SER:O	1:G:21:GLU:HB2	1.94	0.67
1:H:99:TYR:OH	1:H:148:GLU:OE2	2.12	0.67
1:F:183:ILE:HG13	1:E:29:LEU:HB3	1.77	0.66
1:F:75:LEU:O	1:F:79:SER:OG	2.06	0.66
1:E:15:SER:HA	4:E:452:HOH:O	1.96	0.66
1:B:145:LYS:HE2	1:B:219:LEU:HD23	1.78	0.66
1:A:149:ILE:HG13	1:A:212:ILE:HG21	1.79	0.65
1:G:72:HIS:ND1	4:G:402:HOH:O	2.27	0.65
1:F:53:THR:HG22	4:E:477:HOH:O	1.97	0.63
1:E:110:ASN:N	1:E:111:PRO:HD3	2.13	0.63
1:D:53:THR:HB	1:C:7:LEU:HD22	1.80	0.63
1:C:55:LEU:HB2	4:C:449:HOH:O	1.97	0.63
1:G:37:PHE:HB3	4:G:403:HOH:O	1.97	0.63
1:A:63:HIS:HB2	1:A:80:VAL:HG11	1.79	0.63
1:C:51:ARG:HD3	1:C:56:TYR:OH	1.99	0.62
1:C:59:GLU:HB2	4:C:449:HOH:O	1.99	0.62
1:F:69:GLN:HA	1:F:154:GLN:HG3	1.82	0.62
1:D:137:MET:HE1	1:D:145:LYS:HE2	1.81	0.62
1:C:183:ILE:HG22	1:C:183:ILE:O	1.99	0.61
1:G:187:ARG:HG2	1:G:187:ARG:HH11	1.65	0.61
1:B:75:LEU:HD23	1:C:73:THR:HA	1.83	0.61
1:H:131:ARG:HD3	4:H:514:HOH:O	1.99	0.61
1:E:69:GLN:HE22	1:E:122:HIS:HB2	1.66	0.61
1:H:81:VAL:HG12	1:H:163:VAL:HG11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:52:LEU:O	1:C:11:ASN:HB2	2.01	0.60
1:G:64:ARG:HH12	3:G:302:BCT:C	2.13	0.60
1:B:203:ASP:HB2	4:B:443:HOH:O	2.00	0.60
1:F:18:ILE:HG23	1:F:22:THR:HG23	1.83	0.60
1:E:67:ALA:HB3	1:E:123:ILE:HD11	1.84	0.60
1:A:202:GLU:HG3	1:A:206:HIS:CE1	2.37	0.59
1:F:84:ALA:HA	1:F:88:LEU:HD12	1.85	0.59
1:F:38:LEU:HD13	1:F:61:PHE:HD2	1.65	0.59
1:G:117:ASN:HA	1:G:120:LEU:HD12	1.84	0.59
1:D:3:GLU:OE1	1:D:3:GLU:N	2.30	0.59
1:E:191:LEU:HD13	1:E:212:ILE:HD11	1.83	0.59
1:C:28:LYS:HE2	4:C:471:HOH:O	2.02	0.59
1:H:77:CYS:O	1:H:81:VAL:HG23	2.02	0.59
1:F:183:ILE:HG12	1:E:29:LEU:HB3	1.85	0.59
1:C:51:ARG:CD	1:C:56:TYR:OH	2.51	0.58
1:F:64:ARG:HD2	1:E:62:VAL:HB	1.85	0.58
1:G:37:PHE:HB2	1:G:60:LEU:HD23	1.83	0.58
1:C:31:LYS:HD2	1:C:33:GLN:HE21	1.69	0.58
1:C:183:ILE:O	1:C:183:ILE:CG2	2.52	0.58
1:D:138:PRO:HG2	1:D:141:ASP:HB2	1.86	0.58
1:H:99:TYR:HB2	4:H:438:HOH:O	2.04	0.57
1:F:51:ARG:HD3	4:E:401:HOH:O	2.04	0.57
1:G:137:MET:SD	1:G:145:LYS:HG2	2.44	0.57
1:D:74:ASP:O	1:D:78:LEU:HG	2.05	0.57
1:C:39:TRP:HB3	1:C:62:VAL:HG22	1.87	0.57
1:A:67:ALA:CB	1:A:123:ILE:HD11	2.34	0.56
1:F:47:VAL:HG13	4:E:401:HOH:O	2.05	0.56
1:F:115:LEU:HB3	1:E:82:GLN:HG3	1.87	0.56
1:B:54:GLY:HA2	1:B:56:TYR:CE2	2.41	0.56
1:H:178:GLY:N	4:H:405:HOH:O	2.38	0.56
1:C:149:ILE:HG13	1:C:212:ILE:HG21	1.87	0.56
1:F:47:VAL:HG12	1:F:52:LEU:HG	1.86	0.56
1:F:183:ILE:HG23	1:E:30:ALA:HA	1.88	0.56
1:G:151:VAL:O	1:G:155:VAL:HG23	2.06	0.56
1:E:179:PHE:HE1	1:E:190:TYR:CD2	2.24	0.55
1:D:76:ASN:HD21	1:C:63:HIS:CE1	2.25	0.55
1:B:133:TYR:OH	1:B:217:HIS:HA	2.07	0.55
1:G:187:ARG:HG2	1:G:187:ARG:NH1	2.21	0.55
1:G:131:ARG:NH2	4:G:405:HOH:O	2.40	0.55
1:A:51:ARG:NH2	4:A:401:HOH:O	2.23	0.55
1:B:137:MET:HB2	1:B:138:PRO:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:CYS:HB2	1:D:68:ASN:OD1	2.08	0.54
1:E:67:ALA:CB	1:E:123:ILE:HD11	2.38	0.54
1:G:86:ASP:OD1	1:G:170:ARG:NH2	2.39	0.54
1:F:47:VAL:CG1	1:F:52:LEU:HG	2.38	0.54
1:H:9:GLU:OE1	4:H:401:HOH:O	2.19	0.54
1:D:137:MET:HE1	1:D:145:LYS:CE	2.37	0.54
1:E:99:TYR:CE2	1:E:221:CYS:HB2	2.43	0.54
1:A:66:VAL:HG23	1:B:80:VAL:HG22	1.90	0.53
1:D:99:TYR:HB2	1:D:182:GLY:HA2	1.90	0.53
1:E:2:PRO:HA	1:E:5:LYS:HE2	1.89	0.53
1:H:93:ILE:HG21	1:H:158:LEU:HD21	1.91	0.53
1:H:172:GLN:HG2	1:H:174:VAL:HG23	1.89	0.53
1:A:67:ALA:HB1	1:A:123:ILE:HD11	1.89	0.53
1:D:55:LEU:HD11	1:C:7:LEU:HD21	1.91	0.53
1:D:83:TYR:CE1	1:D:87:VAL:HG11	2.44	0.53
1:E:133:TYR:HE2	1:E:145:LYS:HE3	1.74	0.53
1:A:38:LEU:HD23	1:A:93:ILE:HG23	1.92	0.52
1:B:108:ILE:HG12	1:B:127:TYR:CD1	2.45	0.52
1:B:216:ASN:ND2	4:B:408:HOH:O	2.42	0.52
1:B:61:PHE:CE2	1:B:80:VAL:HG13	2.45	0.52
1:B:122:HIS:NE2	1:D:72:HIS:HB2	2.24	0.52
4:D:447:HOH:O	1:C:51:ARG:HD2	2.10	0.52
1:A:99:TYR:HE2	1:A:222:ARG:HG2	1.74	0.52
1:C:134:LEU:HD22	1:C:142:ARG:HG3	1.92	0.52
1:E:93:ILE:HG21	1:E:158:LEU:HD21	1.92	0.52
1:C:150:ASN:O	1:C:154:GLN:HG2	2.09	0.52
1:B:216:ASN:HB2	4:B:498:HOH:O	2.10	0.52
1:H:144:ASP:O	1:H:148:GLU:HG3	2.10	0.52
1:F:4:ILE:HG13	1:E:177:HIS:CE1	2.45	0.52
1:G:38:LEU:HD23	1:G:93:ILE:HG23	1.92	0.51
1:C:55:LEU:CB	4:C:449:HOH:O	2.56	0.51
1:F:168:TRP:HB2	1:F:198:ARG:HG3	1.93	0.50
1:E:106:ALA:HB1	1:E:113:LEU:HD11	1.93	0.50
1:G:69:GLN:HE21	1:G:119:TRP:CD1	2.29	0.50
1:B:18:ILE:HG23	1:B:22:THR:HG23	1.94	0.50
1:B:69:GLN:HG2	1:B:154:GLN:NE2	2.27	0.50
1:H:66:VAL:HG11	1:H:116:ILE:HD11	1.93	0.50
1:D:99:TYR:CE2	1:D:221:CYS:HB2	2.46	0.50
1:H:122:HIS:CE1	1:E:72:HIS:HB2	2.46	0.50
1:A:2:PRO:O	1:A:5:LYS:HB2	2.11	0.50
1:B:41:GLY:O	1:B:64:ARG:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:133:TYR:OH	1:G:214:ASN:O	2.23	0.50
1:D:127:TYR:O	1:D:131:ARG:HB2	2.11	0.50
1:H:85:VAL:O	1:H:89:GLN:HA	2.12	0.50
1:D:137:MET:HG3	1:D:138:PRO:HD2	1.93	0.50
1:C:99:TYR:OH	1:C:148:GLU:OE2	2.19	0.50
1:G:21:GLU:OE1	4:G:401:HOH:O	2.20	0.49
1:G:71:ILE:HG22	1:G:73:THR:H	1.77	0.49
1:G:183:ILE:HG22	4:G:489:HOH:O	2.12	0.49
1:B:117:ASN:ND2	4:B:412:HOH:O	2.45	0.49
1:F:184:GLU:O	1:E:26:PHE:HB3	2.13	0.49
1:G:40:ILE:O	1:G:95:VAL:HA	2.11	0.49
1:D:85:VAL:O	1:D:89:GLN:HA	2.12	0.49
1:A:22:THR:HG23	1:A:22:THR:O	2.12	0.49
1:F:1:MET:HE3	1:F:3:GLU:OE2	2.11	0.49
1:A:18:ILE:HG23	1:A:22:THR:CG2	2.43	0.49
1:E:175:GLU:HB3	4:E:428:HOH:O	2.12	0.49
1:G:137:MET:HG2	1:G:217:HIS:HB3	1.94	0.49
1:C:118:ASN:HA	1:C:121:LEU:HD12	1.95	0.49
1:C:108:ILE:HD13	1:C:142:ARG:HG2	1.95	0.48
1:H:46:ARG:HG2	4:H:472:HOH:O	2.13	0.48
1:B:73:THR:HG21	1:D:119:TRP:HA	1.95	0.48
1:C:134:LEU:O	1:C:137:MET:HB2	2.13	0.48
1:B:73:THR:CG2	1:D:119:TRP:HA	2.43	0.48
1:F:133:TYR:OH	1:F:217:HIS:HA	2.14	0.48
1:H:37:PHE:CD1	1:H:92:HIS:HB2	2.43	0.48
1:C:193:VAL:HG22	1:C:204:ASN:HA	1.96	0.48
1:F:37:PHE:HD1	1:F:92:HIS:HB2	1.79	0.48
1:E:85:VAL:HG13	1:E:174[B]:VAL:HG11	1.95	0.48
1:G:69:GLN:HE21	1:G:119:TRP:NE1	2.12	0.48
1:B:146:LEU:O	1:B:150:ASN:HB2	2.13	0.48
1:E:74:ASP:O	1:E:78:LEU:HG	2.13	0.48
1:A:145:LYS:HE2	1:A:219:LEU:HD23	1.95	0.48
1:H:72:HIS:HE1	1:H:157:ASN:OD1	1.96	0.47
1:H:137:MET:HE2	1:H:145:LYS:HB2	1.96	0.47
1:E:167:ALA:HA	1:E:170:ARG:CZ	2.43	0.47
1:H:44:ASP:HB3	1:H:46:ARG:HD3	1.95	0.47
1:H:93:ILE:HD12	1:H:164:LEU:HD21	1.97	0.47
1:F:5:LYS:O	1:F:9:GLU:HG2	2.14	0.47
1:A:72:HIS:HB2	1:C:122:HIS:NE2	2.30	0.47
1:F:183:ILE:HD11	1:E:29:LEU:HD13	1.96	0.47
1:H:119:TRP:HA	1:E:73:THR:CG2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:31:LYS:HD2	1:C:33:GLN:NE2	2.29	0.47
1:D:47:VAL:HG11	1:C:14:TRP:CH2	2.49	0.47
1:D:150:ASN:OD1	1:D:154:GLN:NE2	2.47	0.47
1:D:185:ASP:OD1	1:D:185:ASP:N	2.48	0.47
1:H:55:LEU:HD11	1:G:7:LEU:HD22	1.97	0.47
1:G:75:LEU:HD13	4:G:522:HOH:O	2.14	0.47
1:F:159:ALA:HB1	1:F:201:VAL:HG22	1.97	0.47
1:F:63:HIS:HB2	1:F:80:VAL:HG11	1.97	0.47
1:C:41:GLY:C	1:C:68:ASN:HB3	2.40	0.47
1:A:191:LEU:HD13	1:A:212:ILE:HD11	1.96	0.46
1:G:48:PRO:HG2	1:G:51:ARG:HB2	1.98	0.46
1:C:37:PHE:HB2	1:C:60:LEU:HD23	1.98	0.46
1:D:108:ILE:HG23	1:D:127:TYR:CZ	2.50	0.46
1:F:128:LEU:HA	1:F:131:ARG:HB2	1.96	0.46
1:H:73:THR:CG2	1:E:119:TRP:HA	2.46	0.46
1:A:70:VAL:HG11	1:A:158:LEU:HB2	1.97	0.46
1:B:160:ASN:O	1:D:121:LEU:HD11	2.16	0.46
1:D:57:SER:HB2	1:D:59:GLU:OE2	2.16	0.46
1:H:29:LEU:HD11	4:H:403:HOH:O	2.16	0.46
1:A:99:TYR:CE2	1:A:222:ARG:HG2	2.50	0.46
4:A:408:HOH:O	1:B:48:PRO:HG3	2.15	0.46
4:H:502:HOH:O	1:G:56:TYR:HD2	1.99	0.46
1:D:82:GLN:NE2	1:D:86:ASP:OD2	2.33	0.46
1:B:150:ASN:HB3	4:B:402:HOH:O	2.15	0.46
1:H:79:SER:O	1:G:116:ILE:HD13	2.16	0.46
1:A:14:TRP:NE1	1:A:18:ILE:HG13	2.31	0.46
1:G:77:CYS:O	1:G:81:VAL:HG23	2.16	0.46
1:F:119:TRP:CZ3	1:E:76:ASN:HA	2.51	0.46
1:E:144:ASP:O	1:E:148:GLU:HG3	2.16	0.46
1:A:67:ALA:CB	1:A:123:ILE:CD1	2.94	0.45
1:A:150:ASN:ND2	4:A:402:HOH:O	2.31	0.45
1:C:105:THR:HB	4:C:423:HOH:O	2.15	0.45
1:B:1:MET:N	4:B:414:HOH:O	2.47	0.45
1:G:42:CYS:SG	1:G:43:ALA:N	2.89	0.45
1:B:172:GLN:HG2	1:B:174:VAL:HG23	1.99	0.45
1:H:11:ASN:HB2	1:G:52:LEU:O	2.17	0.45
1:H:30:ALA:HA	1:G:183:ILE:CG2	2.47	0.45
1:C:85:VAL:O	1:C:89:GLN:HA	2.15	0.45
1:E:76:ASN:C	1:E:76:ASN:OD1	2.59	0.45
1:C:89:GLN:HG2	1:C:172:GLN:NE2	2.31	0.45
1:F:51:ARG:HA	1:F:56:TYR:OH	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:24:GLU:HA	1:E:27:ALA:HB3	1.97	0.45
1:E:145:LYS:NZ	1:E:212:ILE:O	2.42	0.45
1:E:214:ASN:HB2	4:E:459:HOH:O	2.17	0.45
1:A:76:ASN:C	1:A:76:ASN:OD1	2.59	0.45
1:A:67:ALA:HB1	1:A:123:ILE:CD1	2.46	0.45
1:G:46:ARG:HD2	1:G:46:ARG:HA	1.78	0.45
1:A:38:LEU:O	1:A:94:ILE:N	2.44	0.45
1:A:116:ILE:HD12	1:B:79:SER:HB3	1.98	0.45
1:E:206:HIS:HA	1:E:209:LEU:HB2	1.99	0.45
1:A:150:ASN:O	1:A:154:GLN:HG2	2.17	0.45
1:H:153:GLU:HA	1:H:153:GLU:OE1	2.17	0.45
1:E:39:TRP:HB2	1:E:60:LEU:HD22	1.98	0.45
1:F:32:GLY:HA2	1:E:46:ARG:HH22	1.81	0.44
1:C:65:ASN:HB2	4:C:455:HOH:O	2.16	0.44
1:C:96:CYS:HA	1:C:179:PHE:O	2.17	0.44
1:A:108:ILE:HG23	1:A:127:TYR:CZ	2.51	0.44
1:G:207[A]:LYS:HA	1:G:207[A]:LYS:HD3	1.75	0.44
1:G:52:LEU:HD11	1:G:181:TYR:CE2	2.52	0.44
1:D:184:GLU:O	1:C:19:LYS:NZ	2.46	0.44
1:C:31:LYS:O	1:C:33:GLN:N	2.48	0.44
1:H:139:ALA:HA	1:H:142:ARG:HD2	1.99	0.44
1:D:187:ARG:O	1:D:187:ARG:HG3	2.18	0.44
1:B:144:ASP:O	1:B:148:GLU:HG3	2.18	0.44
1:F:62:VAL:HB	1:E:64:ARG:HD2	1.99	0.44
1:E:99:TYR:CD2	1:E:182:GLY:HA2	2.52	0.44
1:G:51:ARG:HA	1:G:56:TYR:OH	2.18	0.44
1:B:24:GLU:O	1:B:28:LYS:N	2.49	0.44
1:G:28:LYS:HA	1:G:31:LYS:HE2	1.99	0.44
1:D:113:LEU:HD22	1:C:87:VAL:HG22	2.00	0.44
1:D:220:LEU:HD13	4:D:463:HOH:O	2.18	0.43
1:A:110:ASN:N	1:A:111:PRO:CD	2.81	0.43
1:B:76:ASN:OD1	1:B:76:ASN:C	2.60	0.43
1:D:183:ILE:HG22	4:D:459:HOH:O	2.19	0.43
1:H:119:TRP:HA	1:E:73:THR:HG21	2.00	0.43
1:C:211:LYS:HE2	1:C:220:LEU:HD13	2.01	0.43
1:B:61:PHE:CD2	1:B:84:ALA:HB2	2.53	0.43
1:D:41:GLY:O	1:D:64:ARG:HA	2.19	0.43
1:F:38:LEU:HD13	1:F:61:PHE:CD2	2.51	0.43
1:A:137:MET:O	1:A:142:ARG:NH1	2.52	0.43
1:H:35:PRO:CG	1:H:88:LEU:HD13	2.49	0.43
1:H:84:ALA:HA	1:H:88:LEU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:35:PRO:HG3	1:H:88:LEU:HD13	2.00	0.43
1:D:69:GLN:HG3	1:D:119:TRP:NE1	2.34	0.43
1:C:140:GLU:HA	4:C:445:HOH:O	2.19	0.43
1:B:183:ILE:CD1	4:B:418:HOH:O	2.67	0.42
1:E:81:VAL:HG12	1:E:163:VAL:HG11	2.01	0.42
1:B:95:VAL:HB	1:B:155:VAL:HG23	2.02	0.42
1:D:38:LEU:HG	1:D:93:ILE:HG23	2.02	0.42
1:H:38:LEU:HD12	1:H:61:PHE:O	2.19	0.42
1:H:194:ARG:HA	4:H:415:HOH:O	2.19	0.42
1:C:81:VAL:HG12	1:C:163:VAL:HG11	1.99	0.42
1:E:38:LEU:HD21	1:E:40:ILE:HD11	2.01	0.42
1:A:137:MET:SD	1:A:145:LYS:HG2	2.59	0.42
1:B:81:VAL:HG12	1:B:163:VAL:HG11	2.01	0.42
1:C:9:GLU:O	1:C:13:LYS:HG3	2.20	0.42
1:B:91:LYS:HG3	4:B:508:HOH:O	2.19	0.42
1:B:148:GLU:CD	1:B:220:LEU:HG	2.45	0.42
1:G:131:ARG:HD3	4:G:432:HOH:O	2.19	0.42
1:G:194:ARG:HA	4:G:455:HOH:O	2.19	0.42
1:A:33:GLN:HB2	4:A:483:HOH:O	2.19	0.42
1:F:183:ILE:CG2	1:E:30:ALA:HA	2.50	0.42
1:D:29:LEU:O	1:C:46:ARG:NH2	2.45	0.42
1:B:75:LEU:HD23	1:C:73:THR:CA	2.50	0.41
1:B:117:ASN:O	1:B:121:LEU:HG	2.20	0.41
1:G:63:HIS:HB2	1:G:80:VAL:HG11	2.02	0.41
1:G:170:ARG:NH1	4:G:412:HOH:O	2.49	0.41
1:D:174:VAL:HG22	4:D:423:HOH:O	2.20	0.41
1:B:85:VAL:O	1:B:89:GLN:HA	2.20	0.41
1:F:168:TRP:CB	1:F:198:ARG:HG3	2.49	0.41
1:D:111:PRO:HG2	1:D:113:LEU:HG	2.02	0.41
1:F:122:HIS:O	1:F:125:ASP:HB2	2.20	0.41
1:F:179:PHE:HB3	1:F:188:LEU:HD22	2.02	0.41
1:E:67:ALA:CB	1:E:123:ILE:CD1	2.97	0.41
1:D:99:TYR:CZ	1:D:221:CYS:HB2	2.56	0.41
1:H:79:SER:HB3	1:G:116:ILE:HD12	2.03	0.41
1:D:25:TYR:OH	1:C:47:VAL:HG13	2.21	0.41
1:F:51:ARG:CZ	4:E:417:HOH:O	2.67	0.41
1:E:160:ASN:ND2	4:E:406:HOH:O	2.48	0.41
1:A:28:LYS:HA	1:A:31:LYS:HG3	2.03	0.41
1:C:94:ILE:HG12	1:C:177:HIS:HB2	2.03	0.41
1:D:43:ALA:HA	1:C:62:VAL:O	2.21	0.41
1:C:44:ASP:O	1:C:45:SER:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:37:PHE:HB2	1:F:60:LEU:HD23	2.03	0.41
1:E:46:ARG:HD2	1:E:46:ARG:HA	1.93	0.41
1:H:4:ILE:HG13	1:G:177:HIS:CE1	2.56	0.41
1:G:83:TYR:CE2	1:G:88:LEU:HD21	2.56	0.41
1:F:93:ILE:O	1:F:177:HIS:N	2.53	0.41
1:F:99:TYR:CE2	1:F:221:CYS:HB2	2.55	0.41
1:E:37:PHE:CE2	1:E:92:HIS:HD2	2.39	0.41
1:A:108:ILE:HD11	1:A:143:SER:HA	2.03	0.40
1:F:81:VAL:HG12	1:F:163:VAL:HG11	2.03	0.40
1:E:25:TYR:OH	4:E:401:HOH:O	2.19	0.40
1:G:99:TYR:CE2	1:G:221:CYS:HB2	2.56	0.40
1:D:51:ARG:NH1	1:C:25:TYR:CZ	2.90	0.40
1:F:37:PHE:CD1	1:F:92:HIS:HB2	2.55	0.40
1:F:170:ARG:NH2	1:F:172:GLN:OE1	2.42	0.40
1:F:175:GLU:HB3	1:F:196:ALA:HB2	2.04	0.40
1:F:189:GLU:OE2	1:F:220:LEU:HB3	2.21	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	220/222 (99%)	211 (96%)	8 (4%)	1 (0%)	24	16
1	B	220/222 (99%)	205 (93%)	15 (7%)	0	100	100
1	C	220/222 (99%)	205 (93%)	13 (6%)	2 (1%)	14	6
1	D	220/222 (99%)	205 (93%)	15 (7%)	0	100	100
1	E	221/222 (100%)	206 (93%)	14 (6%)	1 (0%)	24	16
1	F	220/222 (99%)	209 (95%)	10 (4%)	1 (0%)	24	16
1	G	221/222 (100%)	210 (95%)	10 (4%)	1 (0%)	24	16

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	220/222 (99%)	205 (93%)	15 (7%)	0	100	100
All	All	1762/1776 (99%)	1656 (94%)	100 (6%)	6 (0%)	36	29

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	135	ASP
1	F	32	GLY
1	G	76	ASN
1	C	89	GLN
1	E	185	ASP
1	C	32	GLY

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	186/189 (98%)	180 (97%)	6 (3%)	34	27
1	B	186/189 (98%)	184 (99%)	2 (1%)	65	67
1	C	186/189 (98%)	180 (97%)	6 (3%)	34	27
1	D	186/189 (98%)	181 (97%)	5 (3%)	39	34
1	E	187/189 (99%)	181 (97%)	6 (3%)	34	27
1	F	187/189 (99%)	185 (99%)	2 (1%)	65	67
1	G	187/189 (99%)	178 (95%)	9 (5%)	23	15
1	H	186/189 (98%)	180 (97%)	6 (3%)	34	27
All	All	1491/1512 (99%)	1449 (97%)	42 (3%)	38	32

All (42) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	GLU
1	A	9	GLU

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Mol	Chain	Res	Type
1	A	174	VAL
1	A	183	ILE
1	A	187	ARG
1	A	207	LYS
1	B	22	THR
1	B	183	ILE
1	H	19	LYS
1	H	46	ARG
1	H	90	VAL
1	H	184	GLU
1	H	193	VAL
1	H	203	ASP
1	G	5	LYS
1	G	12	SER
1	G	13	LYS
1	G	21	GLU
1	G	112	GLN
1	G	123	ILE
1	G	128	LEU
1	G	132	GLU
1	G	187	ARG
1	D	5	LYS
1	D	110	ASN
1	D	137	MET
1	D	185	ASP
1	D	187	ARG
1	C	3	GLU
1	C	4	ILE
1	C	5	LYS
1	C	112	GLN
1	C	141	ASP
1	C	183	ILE
1	F	17	SER
1	F	194	ARG
1	E	9	GLU
1	E	51	ARG
1	E	140	GLU
1	E	169	GLU
1	E	183	ILE
1	E	211	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (33) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	160	ASN
1	A	165	GLN
1	A	166	ASN
1	A	206	HIS
1	A	217	HIS
1	B	6	GLN
1	B	34	ASN
1	B	89	GLN
1	B	110	ASN
1	B	160	ASN
1	B	206	HIS
1	B	216	ASN
1	H	160	ASN
1	G	89	GLN
1	G	112	GLN
1	G	160	ASN
1	D	76	ASN
1	D	110	ASN
1	D	112	GLN
1	D	150	ASN
1	D	154	GLN
1	D	160	ASN
1	C	110	ASN
1	C	160	ASN
1	C	217	HIS
1	F	6	GLN
1	F	160	ASN
1	E	69	GLN
1	E	112	GLN
1	E	150	ASN
1	E	154	GLN
1	E	160	ASN
1	E	204	ASN

5.3.3 RNA ⓘ

There are no RNA molecules 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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 14 ligands modelled in this entry, 8 are monoatomic - leaving 6 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	BCT	A	302	-	3,3,3	1.38	1 (33%)	2,3,3	0.59	0
3	BCT	B	302	-	3,3,3	1.33	1 (33%)	2,3,3	0.40	0
3	BCT	D	302	-	3,3,3	0.37	0	2,3,3	0.88	0
3	BCT	H	302	-	3,3,3	0.49	0	2,3,3	0.99	0
3	BCT	C	302	-	3,3,3	0.49	0	2,3,3	0.85	0
3	BCT	G	302	-	3,3,3	0.45	0	2,3,3	0.90	0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	302	BCT	O1-C	2.21	1.33	1.25
3	B	302	BCT	O1-C	2.14	1.33	1.25

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	G	302	BCT	1	0

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 [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	222/222 (100%)	-1.29	0 100 100	9, 20, 29, 33	0
1	B	222/222 (100%)	-1.30	0 100 100	9, 19, 29, 38	0
1	C	222/222 (100%)	-1.17	0 100 100	12, 24, 40, 45	0
1	D	222/222 (100%)	-1.19	0 100 100	12, 24, 37, 41	0
1	E	222/222 (100%)	-1.14	0 100 100	14, 26, 38, 49	1 (0%)
1	F	222/222 (100%)	-1.20	0 100 100	12, 24, 37, 48	0
1	G	222/222 (100%)	-1.29	0 100 100	10, 20, 31, 46	1 (0%)
1	H	222/222 (100%)	-1.31	0 100 100	10, 19, 29, 33	0
All	All	1776/1776 (100%)	-1.24	0 100 100	9, 22, 36, 49	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($\text{\AA}^2$)	Q<0.9
3	BCT	A	302	4/4	0.98	0.07	30,32,33,35	0
3	BCT	B	302	4/4	0.99	0.03	20,21,21,23	0
3	BCT	G	302	4/4	0.99	0.08	24,25,25,26	0
3	BCT	D	302	4/4	0.99	0.03	20,20,21,22	0
3	BCT	C	302	4/4	0.99	0.02	21,23,23,25	0
2	ZN	C	301	1/1	1.00	0.01	22,22,22,22	0
2	ZN	F	301	1/1	1.00	0.01	16,16,16,16	0
2	ZN	E	301	1/1	1.00	0.01	26,26,26,26	0
2	ZN	A	301	1/1	1.00	0.01	19,19,19,19	0
2	ZN	B	301	1/1	1.00	0.01	15,15,15,15	0
3	BCT	H	302	4/4	1.00	0.04	17,17,18,18	0
2	ZN	H	301	1/1	1.00	0.01	20,20,20,20	0
2	ZN	G	301	1/1	1.00	0.01	18,18,18,18	0
2	ZN	D	301	1/1	1.00	0.02	23,23,23,23	0

6.5 Other polymers [i](#)

There are no such residues in this entry.