



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 07:05 PM EDT

PDB ID : 6Y2H / pdb_00006y2h
Title : The crystal structure of human chloride intracellular channel protein 5
Authors : Ferofontov, A.; Giladi, M.; Haitin, Y.
Deposited on : 2020-02-16
Resolution : 2.15 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

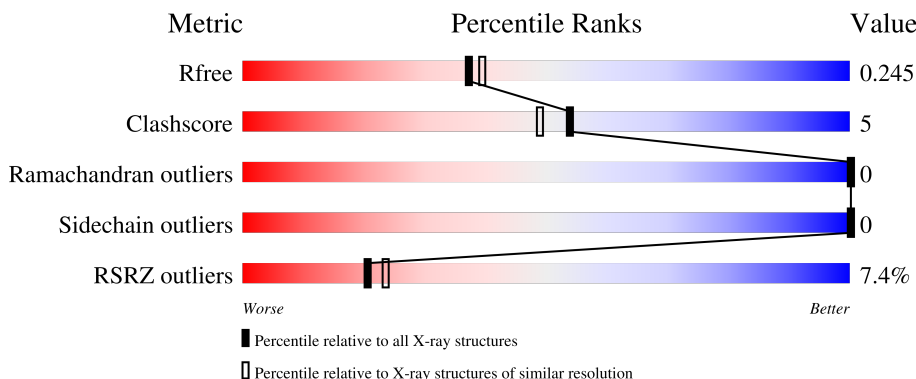
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.15 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	2057 (2.16-2.16)
Clashscore	190562	2159 (2.16-2.16)
Ramachandran outliers	187476	2134 (2.16-2.16)
Sidechain outliers	187428	2133 (2.16-2.16)
RSRZ outliers	180081	2059 (2.16-2.16)

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	240	 6% 83% 10% 7%
1	B	240	 8% 78% 12% 10%
1	C	240	 5% 86% 5% 9%
1	D	240	 7% 80% 8% 12%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6965 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 Chloride intracellular channel protein 5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	223	Total	C	N	O	S	0	1	0
			1701	1092	278	326	5			
1	B	216	Total	C	N	O	S	0	0	0
			1617	1040	266	305	6			
1	C	219	Total	C	N	O	S	0	0	0
			1645	1056	272	310	7			
1	D	211	Total	C	N	O	S	0	0	0
			1582	1017	257	303	5			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	12	GLY	-	expression tag	UNP Q9NZA1
A	13	ALA	-	expression tag	UNP Q9NZA1
A	14	MET	-	expression tag	UNP Q9NZA1
A	15	GLY	-	expression tag	UNP Q9NZA1
B	12	GLY	-	expression tag	UNP Q9NZA1
B	13	ALA	-	expression tag	UNP Q9NZA1
B	14	MET	-	expression tag	UNP Q9NZA1
B	15	GLY	-	expression tag	UNP Q9NZA1
C	12	GLY	-	expression tag	UNP Q9NZA1
C	13	ALA	-	expression tag	UNP Q9NZA1
C	14	MET	-	expression tag	UNP Q9NZA1
C	15	GLY	-	expression tag	UNP Q9NZA1
D	12	GLY	-	expression tag	UNP Q9NZA1
D	13	ALA	-	expression tag	UNP Q9NZA1
D	14	MET	-	expression tag	UNP Q9NZA1
D	15	GLY	-	expression tag	UNP Q9NZA1

- Molecule 2 is THIOCYANATE ION (CCD ID: SCN) (formula: CNS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	A	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		
2	B	1	Total	C	N	S	0	0
			3	1	1	1		
2	C	1	Total	C	N	S	0	0
			3	1	1	1		
2	C	1	Total	C	N	S	0	0
			3	1	1	1		
2	D	1	Total	C	N	S	0	0
			3	1	1	1		

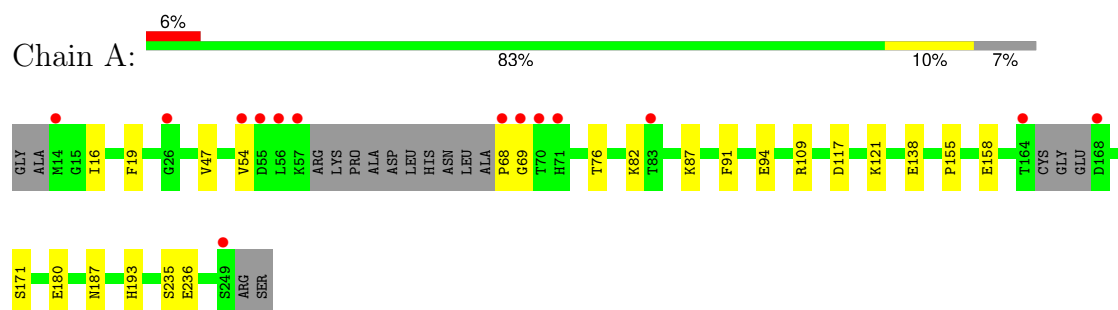
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	104	Total 104	O 104	0	0
3	B	90	Total 90	O 90	0	0
3	C	107	Total 107	O 107	0	0
3	D	80	Total 80	O 80	0	0

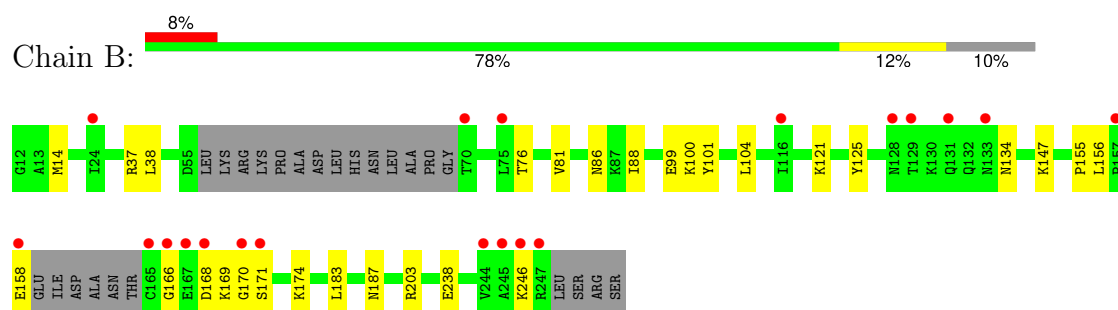
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

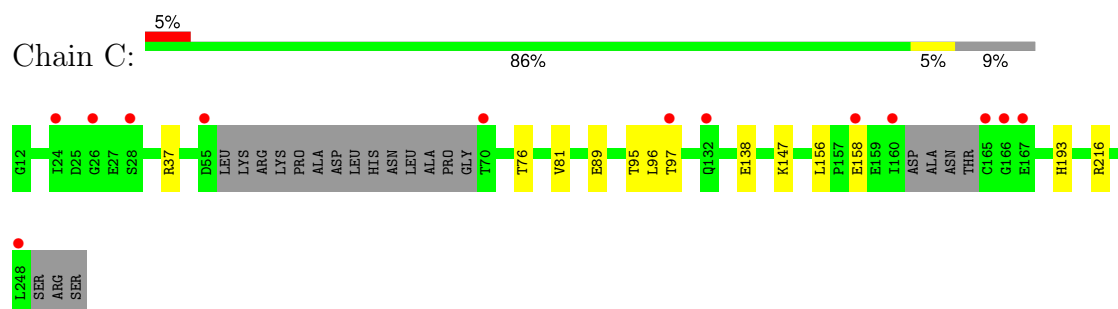
- Molecule 1: Chloride intracellular channel protein 5



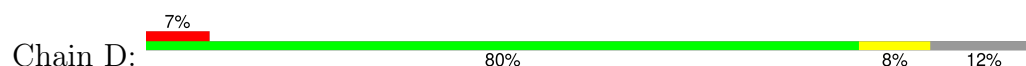
- Molecule 1: Chloride intracellular channel protein 5

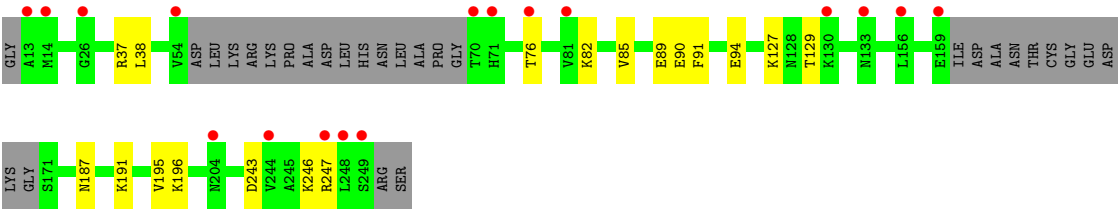


- Molecule 1: Chloride intracellular channel protein 5



- Molecule 1: Chloride intracellular channel protein 5





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	130.99Å 93.96Å 109.58Å 90.00° 124.13° 90.00°	Depositor
Resolution (Å)	48.01 – 2.15 48.01 – 2.15	Depositor EDS
% Data completeness (in resolution range)	82.8 (48.01-2.15) 82.8 (48.01-2.15)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.47 (at 2.16Å)	Xtriage
Refinement program	PHENIX 1.14 _3260	Depositor
R, R_{free}	0.201 , 0.244 0.203 , 0.245	Depositor DCC
R_{free} test set	2494 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	35.8	Xtriage
Anisotropy	0.020	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 57.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.002 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6965	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.22% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: SCN

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	0.26	0/1736	0.50	0/2358
1	B	0.31	0/1649	0.55	2/2242 (0.1%)
1	C	0.24	0/1676	0.49	2/2276 (0.1%)
1	D	0.20	0/1613	0.43	0/2200
All	All	0.26	0/6674	0.49	4/9076 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	96	LEU	CA-C-N	7.28	141.66	120.97
1	C	96	LEU	C-N-CA	7.28	141.66	120.97
1	B	101	TYR	CA-C-N	-5.90	113.86	119.76
1	B	101	TYR	C-N-CA	-5.90	113.86	119.76

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	1701	0	1637	17	1
1	B	1617	0	1525	23	1
1	C	1645	0	1561	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	D	1582	0	1481	14	0
2	A	9	0	0	3	0
2	B	18	0	0	0	0
2	C	9	0	0	1	0
2	D	3	0	0	1	0
3	A	104	0	0	5	2
3	B	90	0	0	6	2
3	C	107	0	0	4	1
3	D	80	0	0	6	1
All	All	6965	0	6204	63	4

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 5.

All (63) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:203:ARG:NH1	3:B:401:HOH:O	2.05	0.89
1:C:37:ARG:NH1	3:C:402:HOH:O	1.95	0.89
1:B:158:GLU:HA	3:B:457:HOH:O	1.75	0.87
1:C:138:GLU:OE1	3:C:401:HOH:O	1.95	0.84
1:D:94:GLU:OE2	3:D:401:HOH:O	1.98	0.81
1:D:127:LYS:O	3:D:402:HOH:O	2.00	0.78
1:B:147:LYS:NZ	3:B:403:HOH:O	2.16	0.78
1:C:138:GLU:OE2	3:C:403:HOH:O	2.00	0.77
1:B:99:GLU:O	1:B:100:LYS:HB3	1.84	0.76
1:B:156:LEU:O	1:B:158:GLU:HG2	1.89	0.72
1:B:203:ARG:NH2	1:B:246:LYS:O	2.24	0.70
1:B:238:GLU:OE1	3:B:402:HOH:O	2.10	0.68
1:A:82:LYS:HE3	1:A:91:PHE:CZ	2.30	0.67
1:D:76:THR:HG22	3:D:429:HOH:O	1.93	0.67
1:B:104:LEU:HB2	1:B:183:LEU:HD13	1.77	0.66
1:A:47:VAL:O	3:A:401:HOH:O	2.13	0.66
1:A:138:GLU:OE2	3:A:402:HOH:O	2.13	0.65
1:A:87:LYS:HD2	1:B:174:LYS:HD2	1.78	0.65
1:A:94:GLU:OE1	3:A:403:HOH:O	2.15	0.65
1:B:104:LEU:CB	1:B:183:LEU:HD13	2.30	0.62
1:B:166:GLY:HA2	1:B:170:GLY:O	2.00	0.62
1:B:168:ASP:O	1:B:169:LYS:CB	2.49	0.61
1:D:196:LYS:NZ	3:D:408:HOH:O	2.27	0.60
1:A:235:SER:OG	3:A:404:HOH:O	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:99:GLU:O	1:B:100:LYS:CB	2.48	0.60
1:B:37:ARG:HD2	1:B:187:ASN:HA	1.83	0.58
1:B:104:LEU:HB2	1:B:183:LEU:CD1	2.33	0.58
1:C:147:LYS:NZ	3:C:405:HOH:O	2.31	0.57
1:B:76:THR:HG22	1:B:81:VAL:HG22	1.87	0.56
1:B:37:ARG:NH2	1:B:86:ASN:OD1	2.37	0.55
1:A:187:ASN:HB3	2:A:301:SCN:S	2.46	0.55
1:C:156:LEU:O	1:C:158:GLU:N	2.40	0.53
1:D:187:ASN:HB3	2:D:301:SCN:S	2.49	0.52
1:B:121:LYS:NZ	3:B:410:HOH:O	2.42	0.51
1:A:68:PRO:HA	1:A:69:GLY:C	2.36	0.51
1:A:193:HIS:HD2	2:A:302:SCN:S	2.34	0.51
1:D:191:LYS:NZ	3:D:407:HOH:O	2.26	0.49
1:D:243:ASP:O	1:D:246:LYS:NZ	2.45	0.49
1:D:37:ARG:NH2	1:D:89:GLU:OE1	2.41	0.48
1:C:76:THR:HG22	1:C:81:VAL:HG22	1.94	0.47
1:D:38:LEU:HD21	1:D:85:VAL:HG23	1.96	0.47
1:A:155:PRO:HA	1:A:171:SER:HB2	1.97	0.47
1:B:125:TYR:O	1:B:203:ARG:NH1	2.48	0.47
1:A:109:ARG:HD2	2:A:303:SCN:S	2.54	0.46
1:D:82:LYS:HE3	1:D:91:PHE:CZ	2.50	0.46
1:A:117:ASP:O	1:A:121:LYS:HG2	2.14	0.46
1:A:19:PHE:HB3	1:A:54:VAL:HG21	1.97	0.46
1:C:156:LEU:O	1:C:158:GLU:HG3	2.16	0.45
1:A:236:GLU:OE1	3:A:405:HOH:O	2.21	0.44
1:B:134:ASN:ND2	3:B:401:HOH:O	2.32	0.44
1:B:38:LEU:HD13	1:B:88:ILE:HG21	2.00	0.44
1:C:37:ARG:NH2	1:C:89:GLU:OE2	2.36	0.43
1:C:193:HIS:HD2	2:C:301:SCN:S	2.42	0.43
1:D:129:THR:HG22	1:D:246:LYS:HB3	2.00	0.42
1:A:16:ILE:HA	1:A:76:THR:O	2.19	0.42
1:A:158:GLU:OE1	1:A:158:GLU:N	2.38	0.41
1:B:155:PRO:HA	1:B:171:SER:HB2	2.02	0.41
1:A:109:ARG:HD3	1:A:109:ARG:HA	1.89	0.41
1:C:95:THR:O	1:C:97:THR:HG23	2.20	0.41
1:D:247:ARG:HA	3:D:415:HOH:O	2.20	0.41
1:C:216:ARG:HD3	1:D:90:GLU:OE2	2.21	0.41
1:D:191:LYS:O	1:D:195:VAL:HG23	2.22	0.40
1:B:14:MET:HE3	1:B:14:MET:HB3	1.97	0.40

All (4) 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)
1:A:180:GLU:OE2	1:B:100:LYS:NZ[4_555]	1.89	0.31
3:A:486:HOH:O	3:B:475:HOH:O[4_555]	1.94	0.26
3:C:480:HOH:O	3:D:470:HOH:O[4_556]	2.02	0.18
3:A:503:HOH:O	3:B:489:HOH:O[2_655]	2.15	0.05

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	218/240 (91%)	216 (99%)	2 (1%)	0	100	100
1	B	210/240 (88%)	204 (97%)	6 (3%)	0	100	100
1	C	213/240 (89%)	209 (98%)	4 (2%)	0	100	100
1	D	205/240 (85%)	202 (98%)	3 (2%)	0	100	100
All	All	846/960 (88%)	831 (98%)	15 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	173/204 (85%)	173 (100%)	0	100	100
1	B	157/204 (77%)	157 (100%)	0	100	100
1	C	160/204 (78%)	160 (100%)	0	100	100
1	D	155/204 (76%)	155 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	645/816 (79%)	645 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	86	ASN
1	A	163	ASN
1	B	108	HIS
1	C	31	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](#)

13 ligands are modelled in this entry.

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	$\# Z > 2$
2	SCN	B	303	-	1,2,2	0.80	0	0,1,1	-	-
2	SCN	A	302	-	1,2,2	0.74	0	0,1,1	-	-

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	SCN	B	301	-	1,2,2	0.43	0	0,1,1	-	-
2	SCN	B	305	-	1,2,2	0.75	0	0,1,1	-	-
2	SCN	A	301	-	1,2,2	0.80	0	0,1,1	-	-
2	SCN	C	302	-	1,2,2	0.71	0	0,1,1	-	-
2	SCN	B	304	-	1,2,2	1.09	0	0,1,1	-	-
2	SCN	C	301	-	1,2,2	0.67	0	0,1,1	-	-
2	SCN	B	302	-	1,2,2	0.79	0	0,1,1	-	-
2	SCN	C	303	-	1,2,2	0.70	0	0,1,1	-	-
2	SCN	A	303	-	1,2,2	0.39	0	0,1,1	-	-
2	SCN	D	301	-	1,2,2	0.81	0	0,1,1	-	-
2	SCN	B	306	-	1,2,2	0.85	0	0,1,1	-	-

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.

5 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	302	SCN	1	0
2	A	301	SCN	1	0
2	C	301	SCN	1	0
2	A	303	SCN	1	0
2	D	301	SCN	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

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	223/240 (92%)	0.33	14 (6%) 26 29	23, 45, 83, 109	1 (0%)
1	B	216/240 (90%)	0.39	20 (9%) 14 16	24, 42, 77, 101	0
1	C	219/240 (91%)	0.17	13 (5%) 28 32	25, 43, 77, 90	0
1	D	211/240 (87%)	0.55	17 (8%) 18 19	30, 55, 89, 108	0
All	All	869/960 (90%)	0.36	64 (7%) 20 23	23, 46, 82, 109	1 (0%)

All (64) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	70	THR	7.3
1	A	164	THR	4.9
1	D	249	SER	3.8
1	A	249	SER	3.7
1	D	248	LEU	3.6
1	B	70	THR	3.6
1	A	68	PRO	3.6
1	C	70	THR	3.6
1	B	129	THR	3.5
1	B	133	ASN	3.5
1	B	128	ASN	3.5
1	C	55	ASP	3.4
1	D	159	GLU	3.4
1	C	248	LEU	3.4
1	D	13	ALA	3.4
1	A	55	ASP	3.3
1	B	75	LEU	3.1
1	A	57	LYS	3.1
1	B	165	CYS	3.0
1	C	165	CYS	2.9
1	C	132	GLN	2.9

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Mol	Chain	Res	Type	RSRZ
1	C	160	ILE	2.9
1	A	69	GLY	2.9
1	A	54	VAL	2.8
1	B	166	GLY	2.8
1	D	156	LEU	2.8
1	A	71	HIS	2.7
1	B	167	GLU	2.7
1	C	24	ILE	2.7
1	C	26	GLY	2.6
1	A	168	ASP	2.6
1	B	246	LYS	2.6
1	D	76	THR	2.6
1	B	168	ASP	2.6
1	B	244	VAL	2.5
1	A	14	MET	2.5
1	C	158	GLU	2.5
1	B	24	ILE	2.5
1	B	157	PRO	2.5
1	A	56	LEU	2.5
1	B	158	GLU	2.4
1	D	130	LYS	2.4
1	D	54	VAL	2.4
1	A	83	THR	2.4
1	D	70	THR	2.4
1	D	71	HIS	2.4
1	B	131	GLN	2.3
1	B	171	SER	2.3
1	C	97	THR	2.3
1	B	170	GLY	2.3
1	D	81	VAL	2.3
1	D	244	VAL	2.2
1	B	245	ALA	2.2
1	D	247	ARG	2.2
1	D	14	MET	2.2
1	B	247	ARG	2.2
1	C	28	SER	2.2
1	C	167	GLU	2.1
1	D	133	ASN	2.1
1	A	26	GLY	2.1
1	C	166	GLY	2.1
1	D	204	ASN	2.1
1	B	116	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
1	D	26	GLY	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	SCN	B	304	3/3	0.74	0.23	44,44,60,81	0
2	SCN	A	301	3/3	0.78	0.24	68,68,70,79	0
2	SCN	D	301	3/3	0.78	0.28	88,88,92,97	0
2	SCN	C	303	3/3	0.84	0.17	57,57,59,76	0
2	SCN	B	305	3/3	0.85	0.17	59,59,62,73	0
2	SCN	B	306	3/3	0.85	0.33	75,75,85,106	0
2	SCN	C	301	3/3	0.86	0.13	35,35,39,55	0
2	SCN	C	302	3/3	0.86	0.20	69,69,74,76	0
2	SCN	B	302	3/3	0.87	0.14	27,27,39,55	0
2	SCN	B	301	3/3	0.87	0.16	59,59,62,74	0
2	SCN	A	302	3/3	0.89	0.14	24,24,45,63	0
2	SCN	B	303	3/3	0.90	0.14	75,75,78,83	0
2	SCN	A	303	3/3	0.92	0.12	20,20,23,60	0

6.5 Other polymers [i](#)

There are no such residues in this entry.