



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 28, 2025 – 09:00 PM EDT

PDB ID : 2OC7 / pdb_00002oc7
Title : Structure of Hepatitis C Viral NS3 protease domain complexed with NS4A peptide and ketoamide SCH571696
Authors : Prongay, A.J.; Guo, Z.; Yao, N.; Fischmann, T.; Strickland, C.; Myers Jr., J.; Weber, P.C.; Malcolm, B.; Beyer, B.M.; Ingram, R.; Pichardo, J.; Hong, Z.; Prosise, W.W.; Ramanathan, L.; Taremi, S.S.; Yarosh-Tomaine, T.; Zhang, R.; Senior, M.; Yang, R.; Arasappan, A.; Bennett, F.; Bogen, S.F.; Chen, K.; Jao, E.; Liu, Y.; Love, R.G.; Saksena, A.K.; Venkatraman, S.; Girijavallabhan, V.; Njoroge, F.G.; Madison, V.
Deposited on : 2006-12-20
Resolution : 2.70 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 Phenix2.0rc1
Mogul	: 2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	: 2.0rc1
EDS	: 3.0
buster-report	: 1.1.7 (2018)
Percentile statistics	: 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	: 9.0.006 (Gargrove)

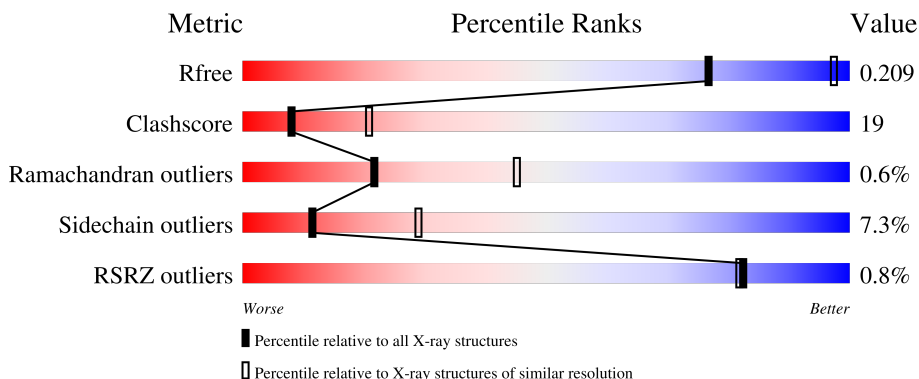
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.70 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}	164625	3333 (2.70-2.70)
Clashscore	180529	3684 (2.70-2.70)
Ramachandran outliers	177936	3633 (2.70-2.70)
Sidechain outliers	177891	3633 (2.70-2.70)
RSRZ outliers	164620	3333 (2.70-2.70)

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	200	
1	C	200	

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Density-Fitness : 1.0.12
 Ideal geometry (proteins) : Engh & Huber (2001)
 Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
 Validation Pipeline (wwPDB-VP) : 2.43.1

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Mol	Chain	Length	Quality of chain
2	B	23	
2	D	23	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
4	BME	A	801	-	-	X	-

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 2905 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 Hepatitis C Virus.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	181	Total	C	N	O	S	0	0	0
			1341	836	244	252	9			
1	C	151	Total	C	N	O	S	0	0	0
			1116	699	200	209	8			

There are 40 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-10	MET	-	cloning artifact	UNP Q9ELS8
A	-9	ALA	-	cloning artifact	UNP Q9ELS8
A	-8	SER	-	cloning artifact	UNP Q9ELS8
A	-7	MET	-	cloning artifact	UNP Q9ELS8
A	-6	THR	-	cloning artifact	UNP Q9ELS8
A	-5	GLY	-	cloning artifact	UNP Q9ELS8
A	-4	GLY	-	cloning artifact	UNP Q9ELS8
A	-3	GLN	-	cloning artifact	UNP Q9ELS8
A	-2	GLN	-	cloning artifact	UNP Q9ELS8
A	-1	MET	-	cloning artifact	UNP Q9ELS8
A	0	GLY	-	cloning artifact	UNP Q9ELS8
A	119	ARG	GLN	conflict	UNP Q9ELS8
A	182	GLY	-	cloning artifact	UNP Q9ELS8
A	183	SER	-	cloning artifact	UNP Q9ELS8
A	184	HIS	-	expression tag	UNP Q9ELS8
A	185	HIS	-	expression tag	UNP Q9ELS8
A	186	HIS	-	expression tag	UNP Q9ELS8
A	187	HIS	-	expression tag	UNP Q9ELS8
A	188	HIS	-	expression tag	UNP Q9ELS8
A	189	HIS	-	expression tag	UNP Q9ELS8
C	-10	MET	-	cloning artifact	UNP Q9ELS8
C	-9	ALA	-	cloning artifact	UNP Q9ELS8
C	-8	SER	-	cloning artifact	UNP Q9ELS8
C	-7	MET	-	cloning artifact	UNP Q9ELS8
C	-6	THR	-	cloning artifact	UNP Q9ELS8

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-5	GLY	-	cloning artifact	UNP Q9ELS8
C	-4	GLY	-	cloning artifact	UNP Q9ELS8
C	-3	GLN	-	cloning artifact	UNP Q9ELS8
C	-2	GLN	-	cloning artifact	UNP Q9ELS8
C	-1	MET	-	cloning artifact	UNP Q9ELS8
C	0	GLY	-	cloning artifact	UNP Q9ELS8
C	119	ARG	GLN	conflict	UNP Q9ELS8
C	182	GLY	-	cloning artifact	UNP Q9ELS8
C	183	SER	-	cloning artifact	UNP Q9ELS8
C	184	HIS	-	expression tag	UNP Q9ELS8
C	185	HIS	-	expression tag	UNP Q9ELS8
C	186	HIS	-	expression tag	UNP Q9ELS8
C	187	HIS	-	expression tag	UNP Q9ELS8
C	188	HIS	-	expression tag	UNP Q9ELS8
C	189	HIS	-	expression tag	UNP Q9ELS8

- Molecule 2 is a protein called Hepatitis C Virus.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	22	Total	C	N	O	0	0	0
			159	105	29	25			
2	D	16	Total	C	N	O	0	0	0
			108	70	20	18			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	19	LYS	-	cloning artifact	UNP Q9QP06
B	20	LYS	-	cloning artifact	UNP Q9QP06
B	40	LYS	-	cloning artifact	UNP Q9QP06
B	41	LYS	-	cloning artifact	UNP Q9QP06
D	19	LYS	-	cloning artifact	UNP Q9QP06
D	20	LYS	-	cloning artifact	UNP Q9QP06
D	40	LYS	-	cloning artifact	UNP Q9QP06
D	41	LYS	-	cloning artifact	UNP Q9QP06

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

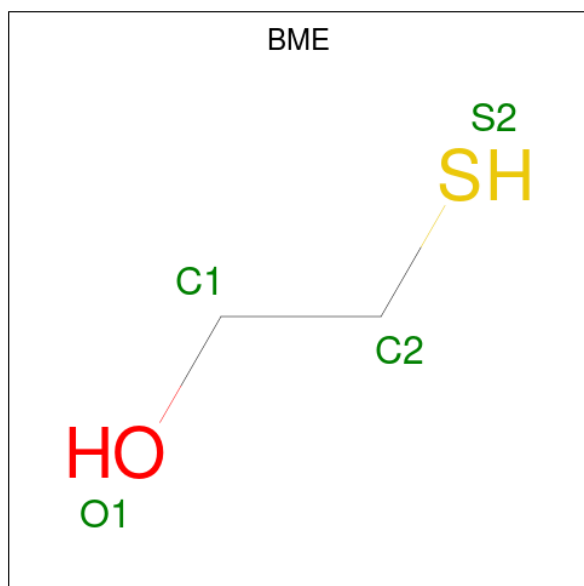
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		

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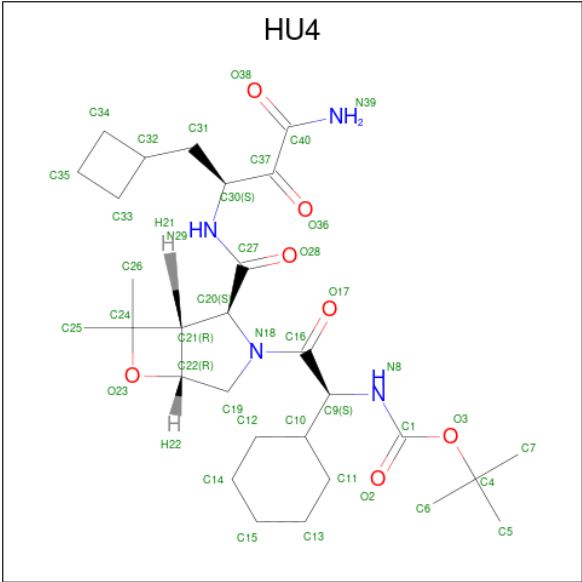
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	1	Total	Zn	0	0
			1	1		

- Molecule 4 is BETA-MERCAPTOETHANOL (CCD ID: BME) (formula: C_2H_6OS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	O	S	0	0
			4	2	1	1		

- Molecule 5 is TERT-BUTYL {(1S)-2-[(1R,2S,5R)-2-({[(1S)-3-AMINO-1-(CYCLOBUTYL METHYL)-2,3-DIOXOPROPYL]AMINO}CARBONYL)-7,7-DIMETHYL-6-OXA-3-AZAB ICYCLO[3.2.0]HEPT-3-YL]-1-CYCLOHEXYL-2-OXOETHYL}CARBAMATE (CCD ID: HU4) (formula: $C_{29}H_{46}N_4O_7$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			40	29	4	7		

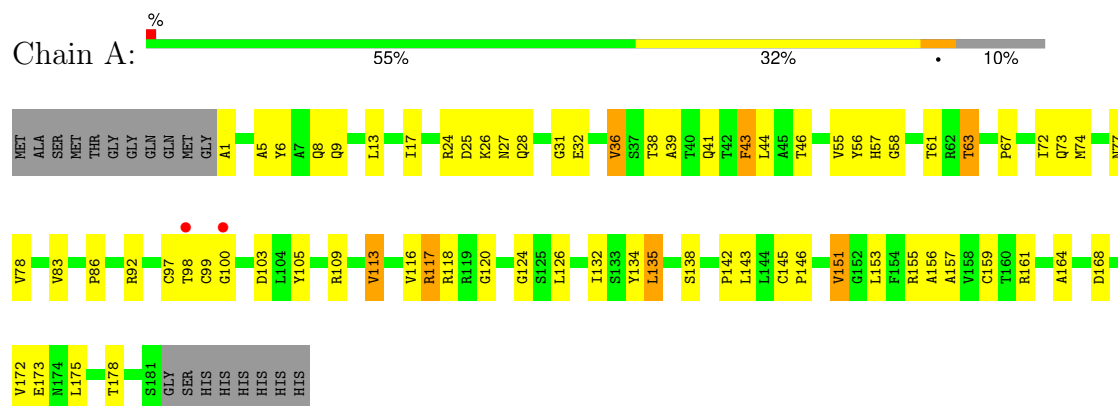
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	82	Total	O	0	0
			82	82		
6	B	8	Total	O	0	0
			8	8		
6	C	39	Total	O	0	0
			39	39		
6	D	6	Total	O	0	0
			6	6		

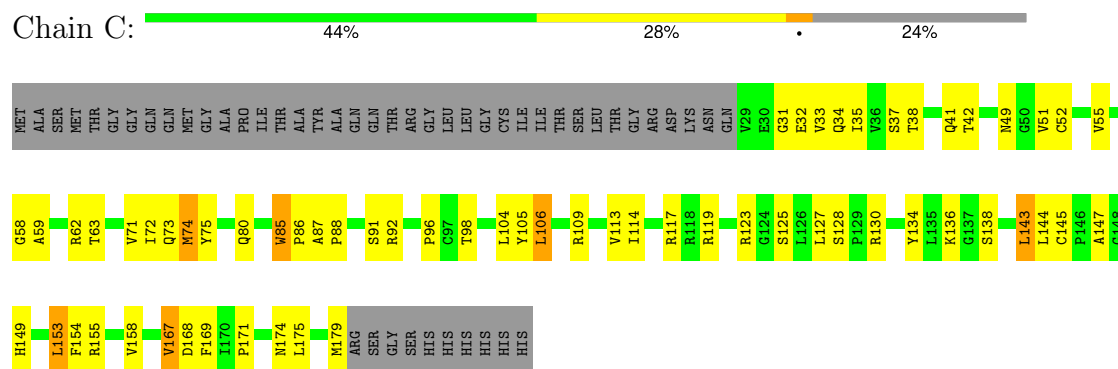
3 Residue-property plots

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.

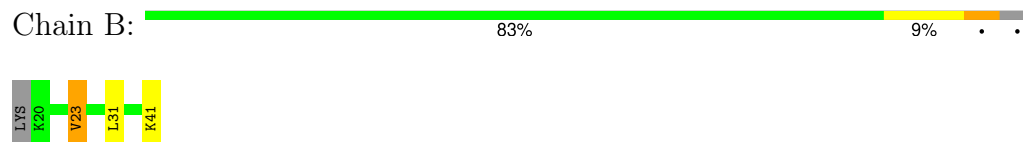
• Molecule 1: Hepatitis C Virus



• Molecule 1: Hepatitis C Virus



• Molecule 2: Hepatitis C Virus



• Molecule 2: Hepatitis C Virus



LYS	LYS	G21	S22	V23	V24	I25	V26	G27	R28	I29	V30	L31	R34	P35	A36	I1E	I1E	PRO	LYS	LYS
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4 Data and refinement statistics

Property	Value	Source
Space group	H 3 2	Depositor
Cell constants a, b, c, α , β , γ	224.68Å 224.68Å 75.60Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	8.00 – 2.70 8.00 – 2.70	Depositor EDS
% Data completeness (in resolution range)	79.3 (8.00-2.70) 89.2 (8.00-2.70)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.04 (at 2.65Å)	Xtriage
Refinement program	X-PLOR 98.1	Depositor
R, R_{free}	0.193 , 0.293 0.209 , 0.209	Depositor DCC
R_{free} test set	900 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	51.3	Xtriage
Anisotropy	0.212	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 78.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	2905	wwPDB-VP
Average B, all atoms (Å ²)	41.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.64% 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: BME, ZN, HU4

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	0.57	0/1367	1.07	5/1864 (0.3%)
1	C	0.48	0/1140	0.98	4/1557 (0.3%)
2	B	0.52	0/160	1.10	1/212 (0.5%)
2	D	0.59	0/108	1.11	0/145
All	All	0.53	0/2775	1.04	10/3778 (0.3%)

There are no bond length outliers.

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	145	CYS	N-CA-C	-7.58	101.21	110.31
1	A	38	THR	N-CA-C	-6.29	100.03	109.96
1	A	41	GLN	N-CA-C	6.07	118.08	108.79
1	C	169	PHE	N-CA-C	6.04	117.96	108.96
2	B	23	VAL	N-CA-C	-5.84	102.00	109.30

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	1341	0	1356	57	0
1	C	1116	0	1119	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	159	0	193	2	0
2	D	108	0	125	14	0
3	A	1	0	0	0	0
3	C	1	0	0	0	0
4	A	4	0	5	4	0
5	A	40	0	46	6	0
6	A	82	0	0	6	0
6	B	8	0	0	0	0
6	C	39	0	0	4	0
6	D	6	0	0	1	0
All	All	2905	0	2844	108	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 19.

The worst 5 of 108 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:17:ILE:HG12	4:A:801:BME:H11	1.60	0.84
1:A:5:ALA:HB2	2:B:31:LEU:HD23	1.70	0.73
1:A:159:CYS:SG	6:A:1077:HOH:O	2.47	0.72
1:C:117:ARG:HH11	1:C:117:ARG:HG3	1.54	0.72
1:C:130:ARG:HD2	6:C:920:HOH:O	1.90	0.71

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	179/200 (90%)	170 (95%)	8 (4%)	1 (1%)	22	45
1	C	149/200 (74%)	140 (94%)	9 (6%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	20/23 (87%)	19 (95%)	1 (5%)	0	100	100
2	D	14/23 (61%)	13 (93%)	0	1 (7%)	1	1
All	All	362/446 (81%)	342 (94%)	18 (5%)	2 (1%)	22	45

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	100	GLY
2	D	35	PRO

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	147/161 (91%)	136 (92%)	11 (8%)	11	28
1	C	123/161 (76%)	113 (92%)	10 (8%)	9	23
2	B	18/19 (95%)	17 (94%)	1 (6%)	17	41
2	D	12/19 (63%)	12 (100%)	0	100	100
All	All	300/360 (83%)	278 (93%)	22 (7%)	11	29

5 of 22 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	98	THR
1	C	136	LYS
1	C	106	LEU
1	C	143	LEU
1	A	117	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 10 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	73	GLN
1	C	80	GLN
1	C	110	HIS
1	A	73	GLN
1	A	80	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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$
4	BME	A	801	-	3,3,3	0.69	0	2,2,2	2.48	1 (50%)
5	HU4	A	999	1	40,43,43	2.21	7 (17%)	41,65,65	1.19	4 (9%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	BME	A	801	-	-	0/1/1/1	-
5	HU4	A	999	1	-	5/40/82/82	0/4/4/4

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	999	HU4	O36-C37	11.54	1.42	1.22
5	A	999	HU4	C21-C22	-3.45	1.47	1.55
5	A	999	HU4	C25-C24	-3.02	1.47	1.52
5	A	999	HU4	C6-C4	2.96	1.59	1.51
5	A	999	HU4	C24-C21	-2.60	1.50	1.54

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	A	999	HU4	C24-C21-C20	4.83	128.28	119.83
4	A	801	BME	O1-C1-C2	3.48	124.40	110.82
5	A	999	HU4	C4-O3-C1	3.25	125.89	120.97
5	A	999	HU4	O3-C4-C5	2.53	117.21	107.21
5	A	999	HU4	C7-C4-C5	-2.14	105.80	111.13

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	999	HU4	C31-C30-C37-O36
5	A	999	HU4	C30-C37-C40-O38
5	A	999	HU4	C5-C4-O3-C1
5	A	999	HU4	C6-C4-O3-C1
5	A	999	HU4	C7-C4-O3-C1

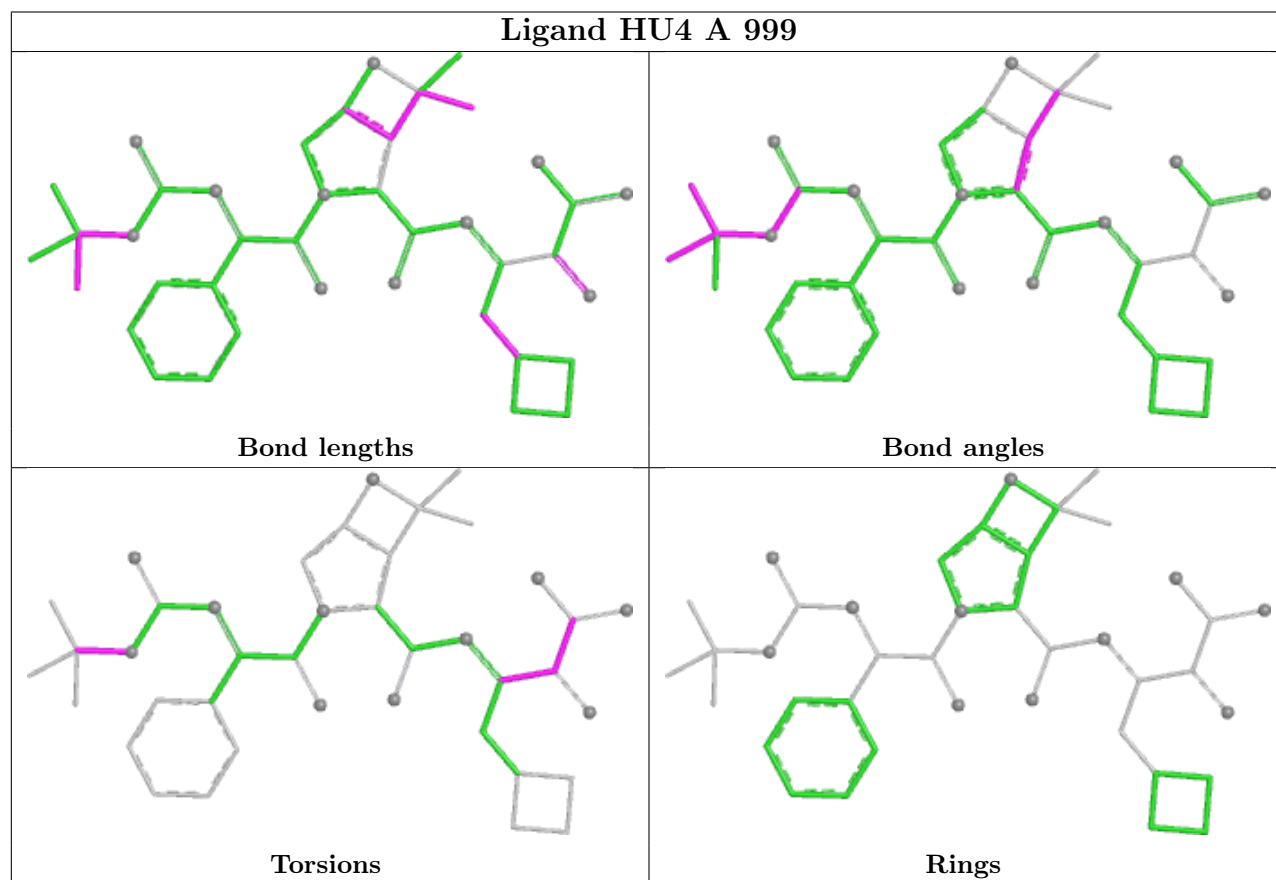
There are no ring outliers.

2 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	801	BME	4	0
5	A	999	HU4	6	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is

within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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	181/200 (90%)	-0.70	2 (1%) 77 77	14, 32, 72, 97	0
1	C	151/200 (75%)	-0.55	0 100 100	25, 43, 69, 88	0
2	B	22/23 (95%)	-0.96	0 100 100	13, 28, 69, 96	0
2	D	16/23 (69%)	-0.59	1 (6%) 27 25	21, 32, 68, 74	0
All	All	370/446 (82%)	-0.65	3 (0%) 82 82	13, 37, 72, 97	0

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	100	GLY	3.8
1	A	98	THR	3.1
2	D	36	ALA	2.4

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](#)

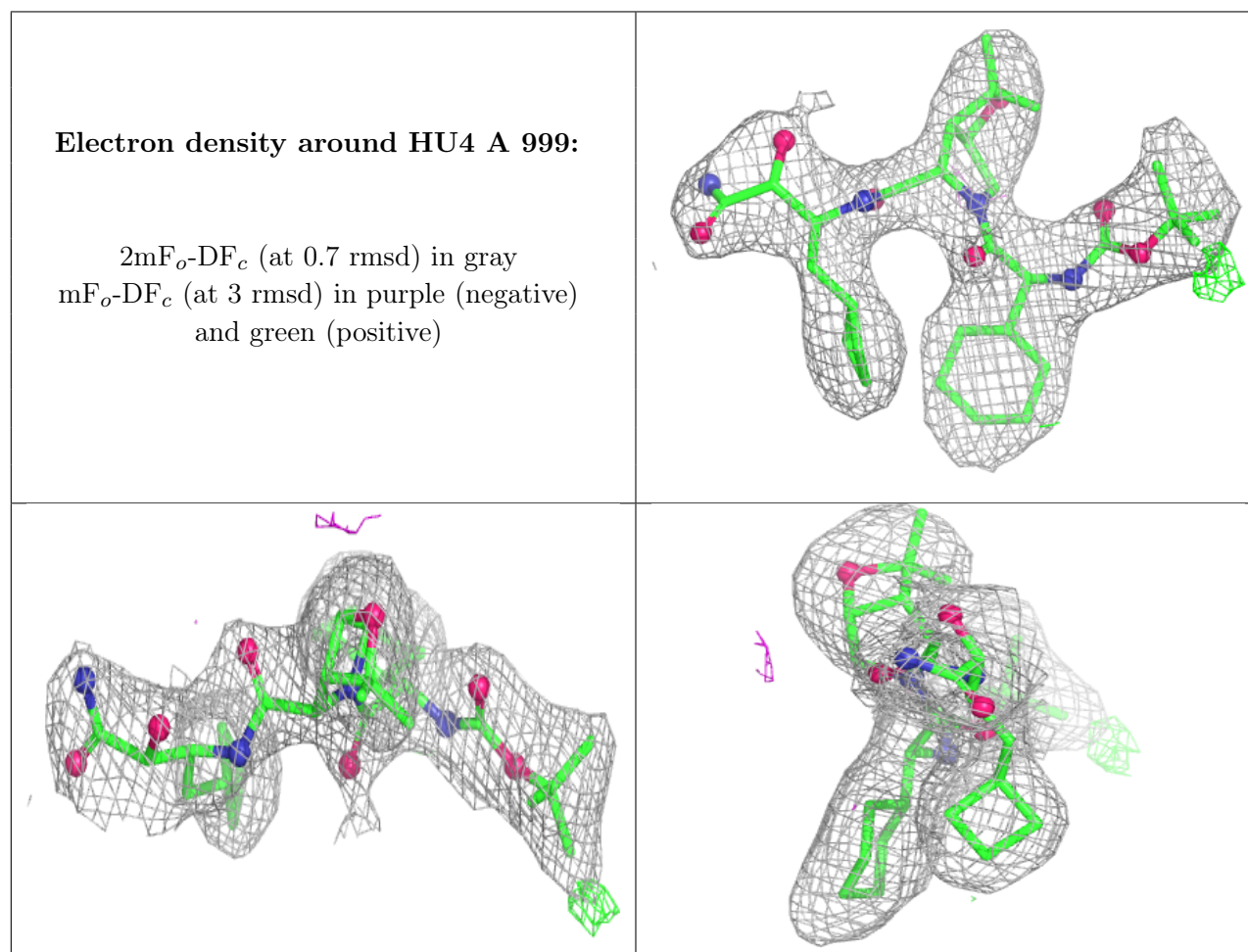
There are no monosaccharides in this entry.

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(\AA^2)	Q<0.9
5	HU4	A	999	40/40	0.94	0.07	26,38,45,46	0
4	BME	A	801	4/4	0.95	0.14	55,67,77,80	0
3	ZN	A	901	1/1	0.97	0.03	60,60,60,60	0
3	ZN	C	901	1/1	0.98	0.03	36,36,36,36	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers ⓘ

There are no such residues in this entry.