

wwPDB X-ray Structure Validation Summary Report (i)

Dec 10, 2023 – 12:37 pm GMT

PDB ID	:	1W0Y
Title	:	tf7a_3771 complex
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Deposited on		
Resolution	:	2.50 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 (i) 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 (1)) were used in the production of this report:

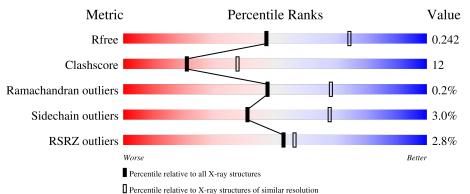
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 2.50 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	4661 (2.50-2.50)
Clashscore	141614	5346 (2.50-2.50)
Ramachandran outliers	138981	5231 (2.50-2.50)
Sidechain outliers	138945	5233 (2.50-2.50)
RSRZ outliers	127900	4559 (2.50-2.50)

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 <=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	Н	254	75%	21%	•••
2	L	142	73%	25%	•
3	Т	210	4% 60% 28%		10%



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 5060 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 BLOOD COAGULATION FACTOR VIIA.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	Н	251	Total 1955	C 1242	N 348	O 352	S 13	25	0	0

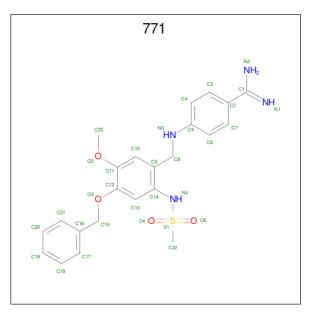
• Molecule 2 is a protein called BLOOD COAGULATION FACTOR VIIA.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
2	L	142	Total 1132	C 682	N 189	0 246	S 15	10	0	0
			1152	002	109	Z40	10			

• Molecule 3 is a protein called TISSUE FACTOR.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
3	Т	188	Total 1533	C 977	N 246	O 305	${f S}{5}$	26	0	0

• Molecule 4 is 4-(4-BENZYLOXY-2-METHANESULFONYLAMINO-5-METHOXY-BENZ YLAMINO)-BENZAMIDINE (three-letter code: 771) (formula: $C_{23}H_{26}N_4O_4S$).



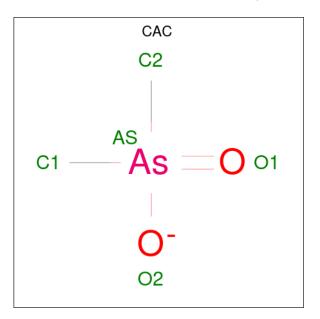


Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf
4	н	1	Total	С	Ν	0	S	0	0
4	11	L	32	23	4	4	1	0	0

• Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	Н	1	Total Ca 1 1	0	0
5	L	8	Total Ca 8 8	0	0

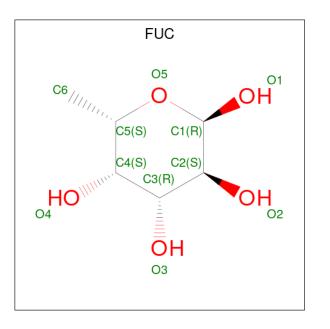
• Molecule 6 is CACODYLATE ION (three-letter code: CAC) (formula: $C_2H_6AsO_2$).



[Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
	6	Н	1	Total 5	As 1	С 2	O 2	0	0

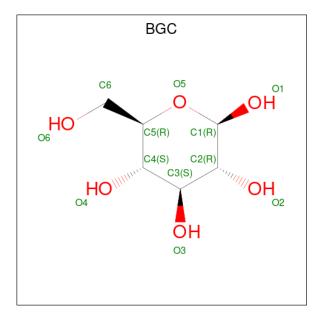
• Molecule 7 is alpha-L-fucopyranose (three-letter code: FUC) (formula: $C_6H_{12}O_5$).





Mo	Chain	Residues	Ate	Atoms			AltConf
7	L	1	Total 10	$\begin{array}{c} \mathrm{C} \\ \mathrm{6} \end{array}$	0 4	0	0

• Molecule 8 is beta-D-glucopyranose (three-letter code: BGC) (formula: $C_6H_{12}O_6$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	L	1	Total 11	C 6	O 5	0	0

• Molecule 9 is water.

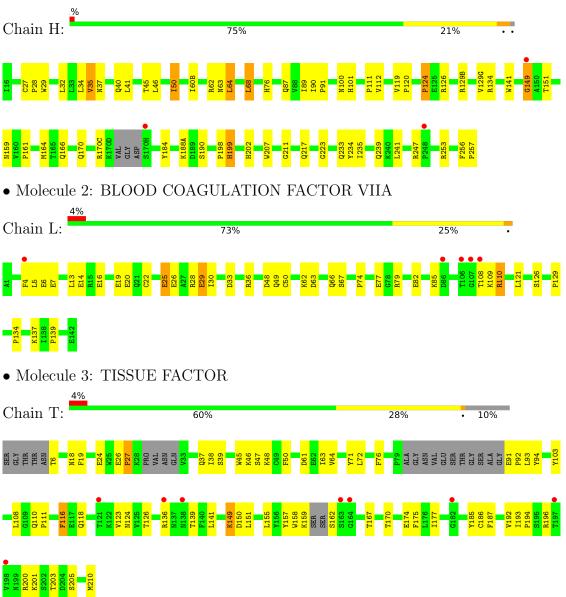


Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
9	Н	180	Total O 180 180	0	0
9	L	76	Total O 76 76	0	0
9	Т	117	Total O 117 117	0	0



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: BLOOD COAGULATION FACTOR VIIA



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants	71.34Å 82.38Å 123.96Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.99 - 2.50	Depositor
Resolution (A)	19.99 - 2.50	EDS
% Data completeness	(Not available) $(19.99-2.50)$	Depositor
(in resolution range)	96.4 (19.99-2.50)	EDS
R _{merge}	0.13	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$2.99 (at 2.50 \text{\AA})$	Xtriage
Refinement program	CNX 2002	Depositor
B B.	0.199 , 0.258	Depositor
R, R_{free}	0.191 , 0.242	DCC
R_{free} test set	1252 reflections $(5.01%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	20.7	Xtriage
Anisotropy	0.387	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.34, 56.0	EDS
L-test for twinning ²	$ \langle L \rangle = 0.48, \langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	5060	wwPDB-VP
Average B, all atoms $(Å^2)$	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.65% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: 771, BGC, CGU, FUC, CAC, CA

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	
	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5
1	Н	0.52	0/2004	0.81	4/2726~(0.1%)
2	L	0.46	0/1039	0.67	0/1389
3	Т	0.47	0/1565	0.76	0/2123
All	All	0.49	0/4608	0.76	4/6238~(0.1%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms		$Observed(^{o})$	$Ideal(^{o})$
1	Η	199	HIS	N-CA-C	-6.95	92.24	111.00
1	Н	149	GLY	N-CA-C	6.55	129.48	113.10
1	Н	190	SER	N-CA-C	-5.28	96.75	111.00
1	Н	129(G)	VAL	N-CA-C	-5.14	97.12	111.00

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	Н	1955	0	1933	41	0
2	L	1132	0	990	23	0
3	Т	1533	0	1492	50	0
4	Н	32	0	25	0	0



Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Η	1	0	0	0	0
5	L	8	0	0	0	0
6	Н	5	0	0	0	0
7	L	10	0	10	0	0
8	L	11	0	10	0	0
9	Η	180	0	0	4	0
9	L	76	0	0	0	0
9	Т	117	0	0	0	0
All	All	5060	0	4460	110	0

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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 12.

The worst 5 of 110 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)
3:T:6:THR:HG23	3:T:93:LEU:HD22	1.41	1.03
1:H:124:PRO:O	1:H:235:ILE:HD13	1.83	0.78
3:T:136:ARG:HG3	3:T:141:LEU:HD11	1.69	0.75
1:H:35:VAL:HG11	1:H:60(B):ILE:HD12	1.70	0.73
3:T:149:LYS:HB2	3:T:149:LYS:NZ	2.06	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	Perce	ntiles
1	Н	247/254~(97%)	235~(95%)	11 (4%)	1 (0%)	34	54
2	L	$131/142 \ (92\%)$	120 (92%)	11 (8%)	0	100	100
3	Т	180/210~(86%)	168 (93%)	12 (7%)	0	100	100



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
All	All	558/606~(92%)	523~(94%)	34~(6%)	1 (0%)	47 68

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	Η	149	GLY

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	Н	214/216~(99%)	204~(95%)	10~(5%)	26 49
2	L	115/115~(100%)	113 (98%)	2(2%)	60 82
3	Т	177/193~(92%)	174 (98%)	3 (2%)	60 82
All	All	506/524~(97%)	491 (97%)	15 (3%)	41 68

5 of 15 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	Н	129(B)	ARG
3	Т	116	PHE
1	Н	159	ASN
3	Т	149	LYS
2	L	110	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
1	Н	239	GLN
2	L	80	ASN
3	Т	199	ASN
3	Т	96	ASN
1	Н	87	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)

9 non-standard protein/DNA/RNA residues 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	Turne	Chain	Res	Link	В	ond leng	gths	B	ond ang	gles
MIOI	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
2	CGU	L	19	5,2	$9,\!11,\!12$	1.41	2 (22%)	9,14,16	1.18	0
2	CGU	L	26	5,2	9,11,12	1.23	0	9,14,16	1.27	1 (11%)
2	CGU	L	29	5,2	9,11,12	1.19	0	9,14,16	1.43	1 (11%)
2	CGU	L	6	5,2	9,11,12	1.62	1 (11%)	9,14,16	1.09	1 (11%)
2	CGU	L	25	5,2	9,11,12	1.39	1 (11%)	9,14,16	1.01	0
2	CGU	L	20	5,2	9,11,12	1.23	1 (11%)	9,14,16	0.96	1 (11%)
2	CGU	L	7	5,2	9,11,12	1.33	1 (11%)	9,14,16	1.00	0
2	CGU	L	14	5,2	9,11,12	1.85	1 (11%)	9,14,16	1.29	2 (22%)
2	CGU	L	16	5,2	9,11,12	1.05	0	9,14,16	0.84	0

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
2	CGU	L	19	5,2	-	2/13/14/16	-
2	CGU	L	26	5,2	-	2/13/14/16	-
2	CGU	L	29	5,2	-	0/13/14/16	-
2	CGU	L	6	5,2	-	4/13/14/16	-
2	CGU	L	25	5,2	-	0/13/14/16	-
2	CGU	L	20	5,2	-	0/13/14/16	-
2	CGU	L	7	5,2	-	3/13/14/16	-
2	CGU	L	14	5,2	_	4/13/14/16	-



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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	CGU	L	16	5,2	-	5/13/14/16	-

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

Mol	Chain	Res	Type	Atoms	Ζ	Observed(Å)	Ideal(Å)
2	L	14	CGU	CG-CD2	-4.78	1.46	1.52
2	L	6	CGU	CG-CD2	3.24	1.56	1.52
2	L	19	CGU	CG-CD2	2.68	1.55	1.52
2	L	25	CGU	CG-CD2	2.58	1.55	1.52
2	L	7	CGU	CG-CD1	2.55	1.55	1.52

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	L	29	CGU	CB-CG-CD2	-3.46	106.09	113.11
2	L	14	CGU	OE21-CD2-CG	-2.74	110.96	120.14
2	L	26	CGU	CB-CG-CD2	-2.50	108.02	113.11
2	L	14	CGU	OE22-CD2-OE21	2.19	129.06	124.09
2	L	20	CGU	CB-CG-CD1	-2.18	108.68	113.11

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	L	6	CGU	CA-CB-CG-CD1
2	L	6	CGU	CA-CB-CG-CD2
2	L	16	CGU	O-C-CA-CB
2	L	16	CGU	OE22-CD2-CG-CD1
2	L	7	CGU	OE21-CD2-CG-CB

There are no ring outliers.

3 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	L	29	CGU	1	0
2	L	25	CGU	1	0
2	L	16	CGU	1	0



5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 13 ligands modelled in this entry, 9 are monoatomic - leaving 4 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	Turne	Chain	Res	Link	Bo	ond leng	ths	Bond angles		
	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z > 2
4	771	Н	1258	-	34,34,34	1.50	3 (8%)	42,47,47	1.47	<mark>5 (11%)</mark>
6	CAC	Н	1260	-	0,4,4	-	-	0,6,6	-	-
7	FUC	L	1143	2	10,10,11	1.33	2 (20%)	14,14,16	1.30	1 (7%)
8	BGC	L	1161	2	11,11,12	0.96	1 (9%)	15,15,17	2.56	7 (46%)

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	771	Н	1258	-	-	4/21/21/21	0/3/3/3
7	FUC	L	1143	2	-	-	0/1/1/1
8	BGC	L	1161	2	-	0/2/19/22	0/1/1/1

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	Η	1258	771	S1-N4	5.98	1.71	1.63
7	L	1143	FUC	C2-C3	2.69	1.56	1.52
7	L	1143	FUC	O3-C3	2.29	1.48	1.43
4	Н	1258	771	C14-C9	2.21	1.43	1.40
8	L	1161	BGC	O4-C4	2.05	1.47	1.43

The worst 5 of 13 bond angle outliers are listed below:



Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(^{o})$	$\mathbf{Ideal}(^{o})$
4	Н	1258	771	C2-C1-N2	6.12	127.27	118.05
8	L	1161	BGC	C1-O5-C5	-5.52	104.72	112.19
8	L	1161	BGC	O5-C1-C2	5.07	118.60	110.77
8	L	1161	BGC	O5-C5-C6	3.23	112.27	107.20
4	Н	1258	771	C23-O2-C11	2.89	121.89	117.53

There are no chirality outliers.

All (4) torsion outliers are listed below:

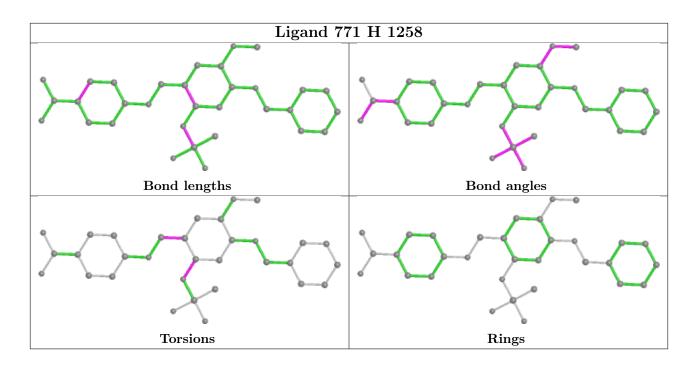
Mol	Chain	\mathbf{Res}	Type	Atoms
4	Н	1258	771	N3-C8-C9-C14
4	Н	1258	771	N3-C8-C9-C10
4	Н	1258	771	C13-C14-N4-S1
4	Н	1258	771	C9-C14-N4-S1

There are no ring outliers.

No monomer is involved in short contacts.

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 then 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 sufficient 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, 95^{th} 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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	Н	251/254~(98%)	-0.57	3 (1%) 79 80	6, 13, 33, 44	11 (4%)
2	L	133/142~(93%)	-0.01	5 (3%) 40 43	12, 27, 44, 52	10 (7%)
3	Т	188/210~(89%)	-0.22	8 (4%) 35 38	11, 22, 49, 54	18 (9%)
All	All	572/606~(94%)	-0.32	16 (2%) 53 56	6, 19, 44, 54	39 (6%)

The worst 5 of 16 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	L	108	THR	4.2
3	Т	182	GLY	4.1
1	Н	248	PRO	3.7
2	L	4	PHE	3.7
1	Н	149	GLY	3.7

6.2 Non-standard residues in protein, DNA, RNA chains (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, 95^{th} 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	CGU	L	25	12/13	0.85	0.24	$24,\!34,\!36,\!37$	0
2	CGU	L	6	12/13	0.87	0.19	28,34,39,41	0
2	CGU	L	14	12/13	0.91	0.23	$31,\!35,\!37,\!38$	0
2	CGU	L	19	12/13	0.92	0.23	31,35,38,38	0
2	CGU	L	7	12/13	0.92	0.15	28,32,33,33	0
2	CGU	L	29	12/13	0.93	0.20	$31,\!34,\!38,\!40$	0
2	CGU	L	20	12/13	0.94	0.23	31,32,35,36	0
2	CGU	L	26	12/13	0.95	0.11	24,26,29,32	0



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Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-factors}(\mathrm{\AA}^2)$	Q<0.9
2	CGU	L	16	12/13	0.95	0.12	20,24,27,28	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

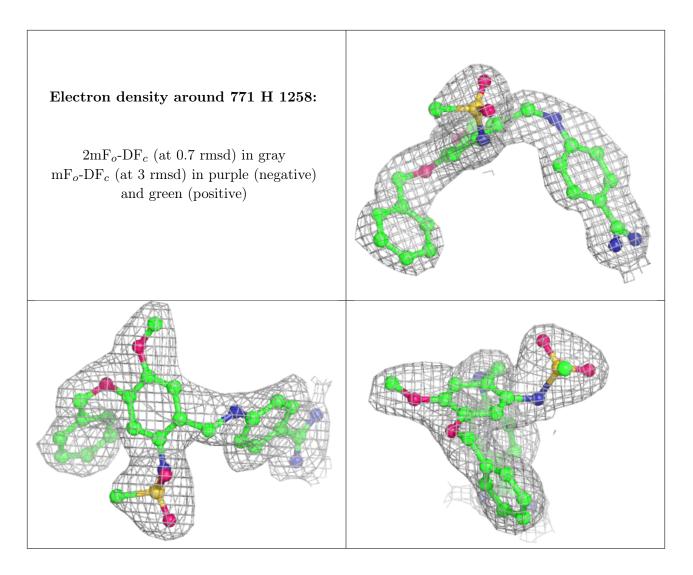
6.4 Ligands (i)

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, 95^{th} 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
8	BGC	L	1161	11/12	0.88	0.16	33,34,38,42	0
5	CA	L	1158	1/1	0.89	0.16	46,46,46,46	0
7	FUC	L	1143	10/11	0.92	0.15	28,29,31,34	0
6	CAC	Н	1260	5/5	0.93	0.28	$50,\!51,\!52,\!52$	5
5	CA	L	1160	1/1	0.94	0.17	56, 56, 56, 56	0
4	771	Н	1258	32/32	0.95	0.14	10,22,32,33	0
5	CA	L	1157	1/1	0.96	0.06	23,23,23,23	0
5	CA	L	1155	1/1	0.96	0.04	34,34,34,34	0
5	CA	Н	1259	1/1	0.97	0.17	34,34,34,34	0
5	CA	L	1153	1/1	0.98	0.09	34,34,34,34	0
5	CA	L	1159	1/1	0.98	0.06	35,35,35,35	0
5	CA	L	1156	1/1	0.99	0.03	21,21,21,21	0
5	CA	L	1154	1/1	0.99	0.06	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 (i)

There are no such residues in this entry.

