



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 08:20 AM UTC

PDB ID : 1T66 / pdb_00001t66
Title : The structure of FAB with intermediate affinity for fluorescein.
Authors : Terzyan, S.; Ramsland, P.A.; Voss Jr., E.W.; Herron, J.N.; Edmundson, A.B.
Deposited on : 2004-05-05
Resolution : 2.30 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
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
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

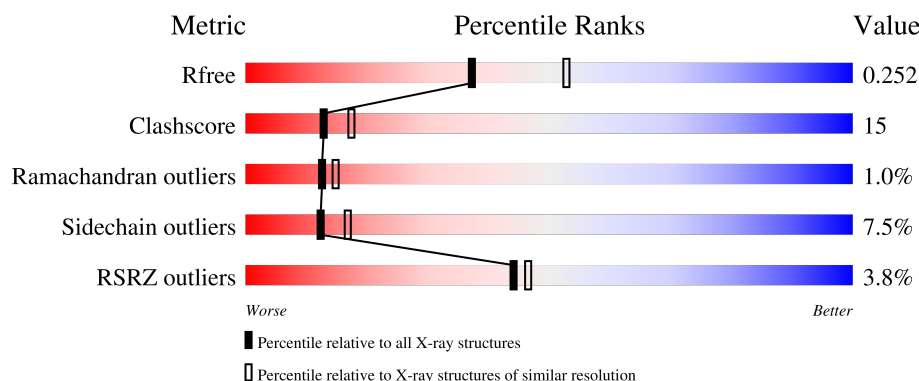
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	C	219	
1	L	219	
2	D	220	
2	H	220	

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
3	FLU	C	301	-	X	-	-
3	FLU	L	300	-	X	-	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7005 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 immunoglobulin light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	L	219	Total	C	N	O	S	8	0	0
			1699	1060	291	341	7			
1	C	219	Total	C	N	O	S	8	0	0
			1699	1060	291	341	7			

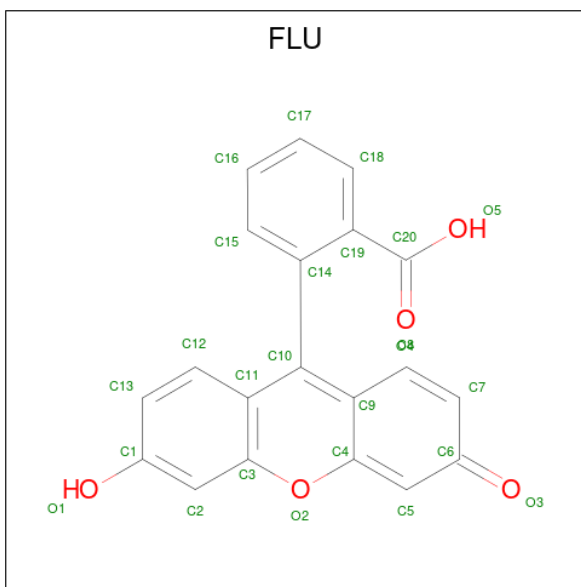
There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	101	TRP	PRO	conflict	GB 18044164
L	172	ASN	ASP	conflict	GB 18044164
C	101	TRP	PRO	conflict	GB 18044164
C	172	ASN	ASP	conflict	GB 18044164

- Molecule 2 is a protein called immunoglobulin heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	H	220	Total	C	N	O	S	8	0	0
			1689	1073	280	326	10			
2	D	220	Total	C	N	O	S	3	0	0
			1689	1073	280	326	10			

- Molecule 3 is 2-(6-HYDROXY-3-OXO-3H-XANTHEN-9-YL)-BENZOIC ACID (CCD ID: FLU) (formula: C₂₀H₁₂O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	L	1	Total	C	O	0	0
			25	20	5		
3	C	1	Total	C	O	0	0
			25	20	5		

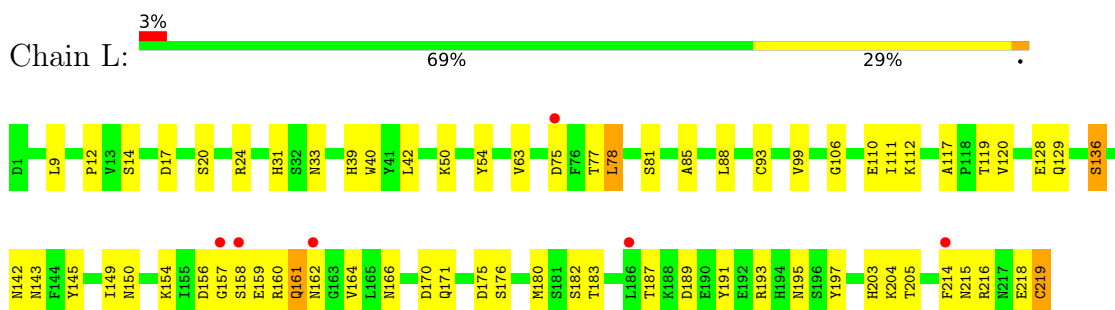
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	L	54	Total	O	0	0
			54	54		
4	H	56	Total	O	0	0
			56	56		
4	C	34	Total	O	0	0
			34	34		
4	D	35	Total	O	0	0
			35	35		

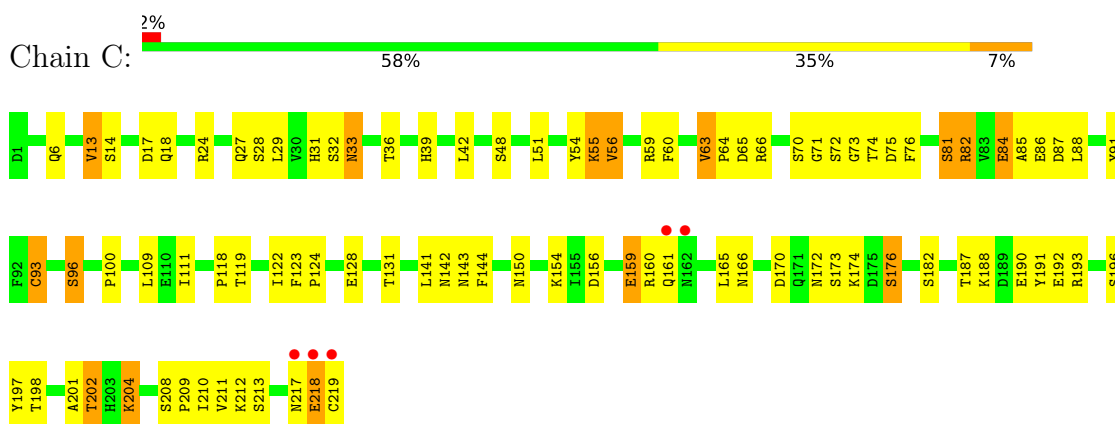
3 Residue-property plots [i](#)

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.

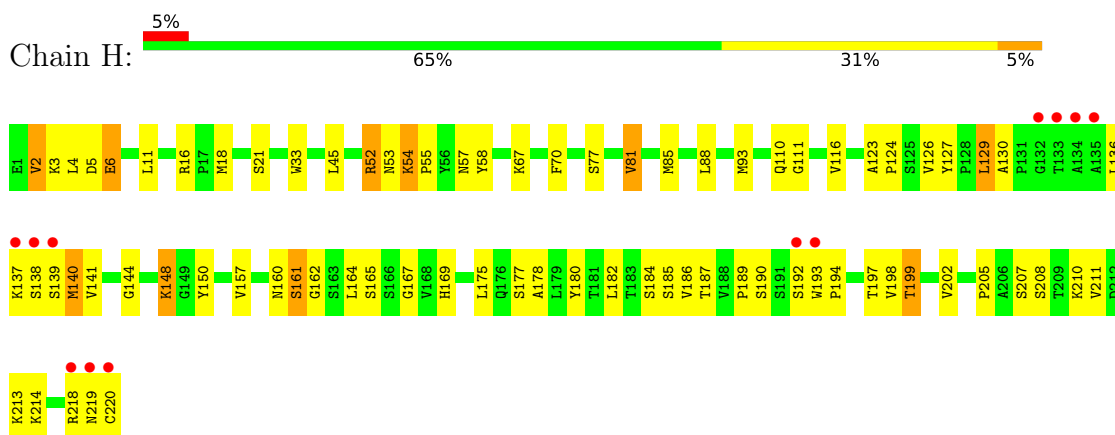
- Molecule 1: immunoglobulin light chain



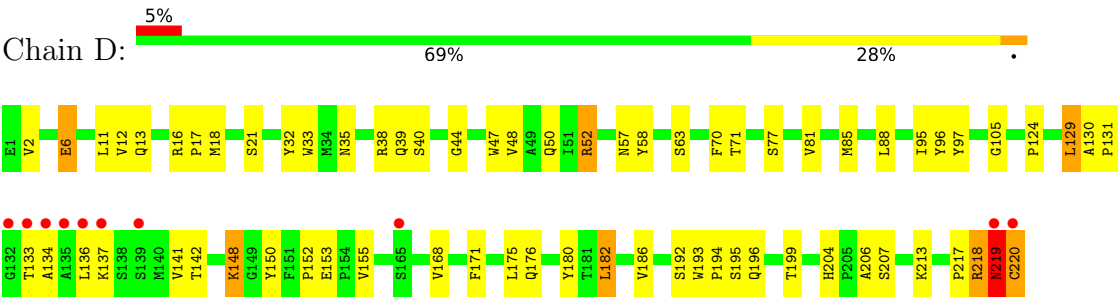
- Molecule 1: immunoglobulin light chain



- Molecule 2: immunoglobulin heavy chain



● Molecule 2: immunoglobulin heavy chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	61.64Å 117.12Å 154.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.00 – 2.30 47.00 – 2.30	Depositor EDS
% Data completeness (in resolution range)	91.0 (47.00-2.30) 91.0 (47.00-2.30)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.88 (at 2.29Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.204 , 0.253 0.205 , 0.252	Depositor DCC
R_{free} test set	2484 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	35.4	Xtriage
Anisotropy	0.828	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 52.3	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	0.95	EDS
Total number of atoms	7005	wwPDB-VP
Average B, all atoms (Å ²)	44.0	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 ⓘ

5.1 Standard geometry ⓘ

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

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	C	0.79	0/1739	1.16	13/2360 (0.6%)
1	L	0.77	0/1739	1.18	14/2360 (0.6%)
2	D	0.80	0/1736	1.15	9/2369 (0.4%)
2	H	0.80	0/1736	1.16	11/2369 (0.5%)
All	All	0.79	0/6950	1.16	47/9458 (0.5%)

There are no bond length outliers.

All (47) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	130	ALA	CA-C-N	8.19	128.24	119.89
2	D	130	ALA	C-N-CA	8.19	128.24	119.89
1	C	63	VAL	CA-C-N	8.13	128.19	119.89
1	C	63	VAL	C-N-CA	8.13	128.19	119.89
2	D	218	ARG	N-CA-C	-7.78	103.59	113.23
2	H	139	SER	N-CA-C	-7.71	101.54	113.02
1	L	187	THR	N-CA-C	-7.59	100.74	110.53
2	D	136	LEU	N-CA-C	-7.53	104.62	113.88
2	D	148	LYS	N-CA-C	7.47	122.01	109.76
2	D	32	TYR	N-CA-C	7.21	121.25	109.72
1	C	142	ASN	N-CA-C	7.14	121.30	109.95
1	C	187	THR	N-CA-C	-6.89	100.32	110.52
1	C	176	SER	N-CA-C	6.86	120.98	112.47
1	L	142	ASN	N-CA-C	6.40	120.48	110.17
2	H	148	LYS	N-CA-C	6.37	120.21	109.76
1	C	119	THR	N-CA-C	-6.34	98.40	108.73
1	C	93	CYS	N-CA-C	-6.10	100.13	109.41
1	L	117	ALA	CA-C-N	5.87	125.63	119.76
1	L	117	ALA	C-N-CA	5.87	125.63	119.76
1	C	192	GLU	N-CA-C	5.75	120.15	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	170	ASP	N-CA-C	-5.74	103.12	110.53
1	L	143	ASN	N-CA-C	5.73	119.15	111.24
1	C	33	ASN	N-CA-C	-5.70	105.53	112.88
2	H	81	VAL	CB-CA-C	-5.70	101.57	110.69
2	H	140	MET	N-CA-C	5.64	117.18	109.18
2	D	131	PRO	N-CA-C	5.63	120.07	111.11
1	L	120	VAL	N-CA-C	5.58	117.03	108.71
1	L	106	GLY	N-CA-C	5.57	119.22	112.48
1	L	176	SER	N-CA-C	5.52	119.59	112.86
2	H	219	ASN	N-CA-C	-5.50	104.93	111.69
1	L	119	THR	N-CA-C	-5.49	98.81	108.20
1	C	143	ASN	N-CA-C	5.31	117.65	111.02
2	H	123	ALA	CA-C-N	-5.29	114.89	120.66
2	H	123	ALA	C-N-CA	-5.29	114.89	120.66
1	L	99	VAL	N-CA-C	-5.25	101.85	108.05
2	H	126	VAL	N-CA-C	5.22	115.61	107.99
1	C	56	VAL	N-CA-C	5.19	120.14	109.34
2	D	153	GLU	N-CA-C	-5.13	102.69	110.39
2	D	171	PHE	N-CA-C	5.12	116.27	109.93
1	C	170	ASP	N-CA-C	-5.11	103.94	110.53
1	C	210	ILE	N-CA-C	-5.10	102.16	108.89
1	L	63	VAL	CA-C-N	5.08	125.01	119.78
1	L	63	VAL	C-N-CA	5.08	125.01	119.78
2	H	127	TYR	CA-C-N	5.07	124.97	119.85
2	H	127	TYR	C-N-CA	5.07	124.97	119.85
2	H	57	ASN	N-CA-C	5.06	119.04	112.86
1	L	81	SER	N-CA-C	5.03	117.15	111.02

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	C	1699	0	1637	64	0
1	L	1699	0	1637	41	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	D	1689	0	1646	59	0
2	H	1689	0	1646	48	0
3	C	25	0	10	2	0
3	L	25	0	10	1	0
4	C	34	0	0	2	0
4	D	35	0	0	2	0
4	H	56	0	0	3	0
4	L	54	0	0	1	0
All	All	7005	0	6586	201	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 15.

All (201) 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:C:204:LYS:HB3	1:C:204:LYS:NZ	1.81	0.94
2:D:133:THR:HG22	2:D:134:ALA:H	1.32	0.93
2:H:189:PRO:HG2	2:H:192:SER:OG	1.77	0.85
2:D:175:LEU:HD13	2:D:176:GLN:N	1.93	0.84
1:L:31:HIS:HD2	1:L:33:ASN:H	1.24	0.83
1:C:160:ARG:HG3	1:C:161:GLN:N	1.93	0.83
2:H:130:ALA:HB3	2:H:218:ARG:HG2	1.59	0.83
1:L:215:ASN:HB2	1:L:218:GLU:HB3	1.62	0.82
2:D:133:THR:HG22	2:D:134:ALA:N	1.96	0.78
1:C:13:VAL:HG23	1:C:17:ASP:HB2	1.67	0.77
2:D:13:GLN:HB2	2:D:16:ARG:HD3	1.66	0.77
1:L:216:ARG:O	1:L:219:CYS:HB2	1.85	0.76
2:D:33:TRP:CE2	2:D:52:ARG:HG2	2.20	0.76
2:D:137:LYS:HZ1	2:D:142:THR:HB	1.49	0.75
2:D:137:LYS:HZ3	2:D:142:THR:H	1.33	0.75
2:D:133:THR:CG2	2:D:134:ALA:H	1.98	0.75
2:H:140:MET:HB3	2:H:187:THR:CG2	2.17	0.73
2:H:136:LEU:HD21	2:H:138:SER:O	1.88	0.73
1:L:161:GLN:H	1:L:161:GLN:CD	1.96	0.72
1:C:204:LYS:HB3	1:C:204:LYS:HZ3	1.52	0.71
1:C:48:SER:HB3	2:D:97:TYR:CE1	2.26	0.71
1:L:31:HIS:CD2	1:L:33:ASN:H	2.06	0.71
1:C:88:LEU:HD23	1:C:111:ILE:HD12	1.71	0.71
2:H:136:LEU:HD12	2:H:190:SER:OG	1.90	0.70
2:D:137:LYS:NZ	2:D:142:THR:HB	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:168:VAL:HG22	2:D:186:VAL:HG23	1.75	0.69
2:H:93:MET:HE2	2:H:116:VAL:H	1.58	0.68
2:D:218:ARG:C	2:D:220:CYS:N	2.42	0.68
1:C:60:PHE:HE1	2:D:105:GLY:HA3	1.58	0.68
1:L:85:ALA:HA	1:L:111:ILE:CD1	2.24	0.68
1:L:161:GLN:H	1:L:161:GLN:NE2	1.92	0.68
2:H:85:MET:HB3	2:H:88:LEU:HD21	1.76	0.68
1:C:27:GLN:O	1:C:74:THR:HG22	1.94	0.67
1:C:48:SER:HB3	2:D:97:TYR:HE1	1.59	0.67
2:H:54:LYS:HG3	2:H:58:TYR:OH	1.94	0.67
2:H:70:PHE:CZ	2:H:85:MET:HG2	2.30	0.67
1:C:85:ALA:HA	1:C:111:ILE:HD13	1.77	0.66
1:C:13:VAL:CG2	1:C:17:ASP:HB2	2.26	0.65
1:L:85:ALA:HA	1:L:111:ILE:HD13	1.79	0.65
1:C:86:GLU:H	1:C:86:GLU:CD	2.04	0.64
1:C:188:LYS:HE3	4:C:606:HOH:O	1.99	0.63
2:H:160:ASN:HD21	2:H:198:VAL:HA	1.63	0.62
1:L:215:ASN:HB2	1:L:218:GLU:CB	2.29	0.62
2:H:218:ARG:NH2	2:H:220:CYS:HB2	2.15	0.61
2:H:124:PRO:HB3	2:H:150:TYR:HB3	1.82	0.61
2:D:218:ARG:O	2:D:220:CYS:N	2.34	0.61
2:H:6:GLU:OE2	2:H:110:GLN:N	2.34	0.60
2:H:193:TRP:CD1	2:H:194:PRO:HA	2.37	0.60
2:D:13:GLN:HG3	2:D:16:ARG:HH11	1.67	0.60
1:C:124:PRO:HG2	2:D:218:ARG:NH1	2.16	0.59
2:D:152:PRO:O	2:D:204:HIS:HE1	1.86	0.59
2:D:218:ARG:C	2:D:220:CYS:H	2.11	0.58
1:C:59:ARG:CZ	1:C:65:ASP:HA	2.34	0.58
2:H:160:ASN:C	2:H:162:GLY:H	2.11	0.58
1:L:161:GLN:CD	1:L:161:GLN:N	2.57	0.58
2:D:124:PRO:HB3	2:D:150:TYR:HB3	1.85	0.58
1:C:51:LEU:HD23	1:C:60:PHE:CD1	2.39	0.58
1:C:160:ARG:HG3	1:C:161:GLN:H	1.69	0.57
2:D:204:HIS:HD2	2:D:207:SER:OG	1.86	0.57
1:L:129:GLN:HE22	1:L:136:SER:HB2	1.69	0.57
1:C:190:GLU:OE1	1:C:193:ARG:NH2	2.36	0.57
1:L:166:ASN:ND2	1:L:182:SER:OG	2.37	0.57
2:D:33:TRP:CD2	2:D:52:ARG:HG2	2.39	0.57
1:C:72:SER:O	1:C:74:THR:N	2.38	0.56
2:D:175:LEU:HD13	2:D:176:GLN:H	1.69	0.56
1:C:60:PHE:CE1	2:D:105:GLY:HA3	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:137:LYS:NZ	2:D:142:THR:H	2.04	0.56
1:C:13:VAL:CG1	1:C:109:LEU:HD11	2.37	0.55
1:C:6:GLN:NE2	1:C:91:TYR:O	2.40	0.55
1:C:18:GLN:HA	1:C:81:SER:O	2.07	0.55
2:D:133:THR:CG2	2:D:134:ALA:N	2.62	0.55
1:C:217:ASN:O	1:C:218:GLU:C	2.50	0.54
2:H:136:LEU:HD12	2:H:190:SER:CB	2.37	0.54
1:C:204:LYS:HB3	1:C:204:LYS:HZ2	1.69	0.54
1:L:145:TYR:O	1:L:203:HIS:HE1	1.91	0.54
1:C:118:PRO:HB3	1:C:144:PHE:CD2	2.43	0.54
1:C:96:SER:HB2	3:C:301:FLU:H5	1.89	0.54
1:C:141:LEU:N	1:C:141:LEU:HD12	2.23	0.54
2:H:129:LEU:HB2	2:H:144:GLY:C	2.33	0.53
2:D:13:GLN:HG3	2:D:16:ARG:NH1	2.23	0.53
2:H:140:MET:HB3	2:H:187:THR:HG22	1.90	0.53
1:L:154:LYS:HA	1:L:158:SER:O	2.09	0.53
2:H:54:LYS:HG3	2:H:58:TYR:CZ	2.43	0.53
4:C:652:HOH:O	2:D:148:LYS:HE3	2.08	0.53
1:C:211:VAL:O	1:C:212:LYS:HD3	2.08	0.52
1:C:88:LEU:HD21	1:C:173:SER:HA	1.90	0.52
1:C:128:GLU:OE2	2:D:213:LYS:HE2	2.09	0.52
2:H:157:VAL:HG22	2:H:202:VAL:HG22	1.91	0.52
1:L:88:LEU:HD11	1:L:171:GLN:HG2	1.92	0.52
1:L:39:HIS:O	1:L:93:CYS:HA	2.09	0.51
2:H:193:TRP:CG	2:H:194:PRO:HA	2.45	0.51
1:C:85:ALA:HA	1:C:111:ILE:CD1	2.41	0.51
2:H:167:GLY:O	2:H:186:VAL:HA	2.10	0.51
2:H:160:ASN:O	2:H:162:GLY:N	2.44	0.51
2:D:204:HIS:CD2	2:D:207:SER:OG	2.64	0.50
2:D:218:ARG:O	2:D:219:ASN:C	2.53	0.50
2:H:160:ASN:C	2:H:162:GLY:N	2.69	0.50
1:L:195:ASN:O	1:L:215:ASN:HA	2.11	0.50
1:C:204:LYS:NZ	1:C:204:LYS:CB	2.67	0.50
2:D:35:ASN:OD1	2:D:50:GLN:HB2	2.11	0.50
2:D:134:ALA:HA	2:D:219:ASN:HA	1.94	0.50
2:H:141:VAL:O	2:H:187:THR:HA	2.11	0.50
2:H:130:ALA:CB	2:H:218:ARG:HG2	2.37	0.50
2:D:6:GLU:HA	2:D:21:SER:O	2.12	0.50
1:L:175:ASP:C	1:L:175:ASP:OD1	2.55	0.49
1:L:197:TYR:HB2	1:L:214:PHE:CE1	2.47	0.49
2:D:70:PHE:CE2	2:D:85:MET:HE3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:161:GLN:NE2	1:L:161:GLN:N	2.60	0.49
2:H:16:ARG:HD2	4:H:616:HOH:O	2.13	0.49
1:C:156:ASP:HA	1:C:196:SER:HB3	1.94	0.49
1:C:64:PRO:CB	1:C:66:ARG:NH1	2.76	0.49
2:H:199:THR:HB	2:H:214:LYS:HA	1.95	0.49
2:D:152:PRO:HD2	2:D:206:ALA:CB	2.42	0.49
1:C:198:THR:OG1	1:C:213:SER:HB2	2.13	0.49
1:C:202:THR:HG23	1:C:209:PRO:HG3	1.93	0.49
2:D:193:TRP:CH2	2:D:217:PRO:HG3	2.48	0.49
1:C:166:ASN:ND2	1:C:182:SER:OG	2.46	0.48
1:L:164:VAL:HA	1:L:183:THR:O	2.12	0.48
2:H:161:SER:HA	4:H:508:HOH:O	2.13	0.48
1:L:31:HIS:HD2	1:L:33:ASN:N	2.03	0.48
1:L:149:ILE:HG12	1:L:150:ASN:N	2.29	0.48
2:H:177:SER:O	2:H:178:ALA:HB3	2.11	0.48
1:L:88:LEU:HD11	1:L:171:GLN:CG	2.44	0.48
1:L:160:ARG:HD2	1:L:161:GLN:N	2.29	0.48
2:D:48:VAL:HA	2:D:63:SER:OG	2.14	0.47
1:L:14:SER:O	1:L:17:ASP:HB2	2.14	0.47
1:L:156:ASP:C	1:L:158:SER:H	2.21	0.47
2:D:40:SER:HA	4:D:529:HOH:O	2.13	0.47
1:C:66:ARG:HD2	1:C:82:ARG:O	2.14	0.47
2:D:12:VAL:HB	2:D:18:MET:HE3	1.96	0.47
1:L:203:HIS:O	1:L:205:THR:N	2.47	0.47
2:H:33:TRP:CE2	2:H:52:ARG:HG2	2.49	0.47
1:C:150:ASN:O	1:C:201:ALA:HA	2.14	0.47
2:H:175:LEU:HG	2:H:180:TYR:CE1	2.49	0.47
2:D:70:PHE:CZ	2:D:85:MET:HE2	2.50	0.47
1:C:64:PRO:HB3	1:C:66:ARG:NH1	2.30	0.46
1:L:203:HIS:C	1:L:205:THR:H	2.24	0.46
1:C:165:LEU:HD21	2:D:176:GLN:CD	2.40	0.46
1:C:39:HIS:O	1:C:93:CYS:HA	2.16	0.46
1:C:71:GLY:HA3	1:C:76:PHE:HA	1.97	0.46
1:C:154:LYS:HA	1:C:159:GLU:HA	1.97	0.46
2:D:137:LYS:HB3	2:D:141:VAL:HG22	1.96	0.46
2:H:6:GLU:CD	2:H:111:GLY:H	2.24	0.45
1:L:112:LYS:HA	1:L:145:TYR:OH	2.16	0.45
2:D:137:LYS:HZ3	2:D:142:THR:N	2.09	0.45
2:H:6:GLU:HA	2:H:21:SER:O	2.16	0.45
1:C:31:HIS:HB3	1:C:33:ASN:OD1	2.17	0.45
2:D:182:LEU:C	2:D:182:LEU:HD23	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:160:ARG:HD2	1:L:162:ASN:H	1.81	0.45
1:C:54:TYR:O	1:C:55:LYS:C	2.59	0.45
2:H:18:MET:HB3	2:H:88:LEU:HD11	1.98	0.44
1:L:156:ASP:O	1:L:158:SER:N	2.50	0.44
1:C:54:TYR:OH	3:C:301:FLU:H7	2.18	0.44
1:L:128:GLU:OE1	2:H:213:LYS:HE3	2.17	0.44
2:D:38:ARG:HA	2:D:95:ILE:O	2.17	0.44
2:H:169:HIS:O	2:H:184:SER:HA	2.18	0.44
2:H:53:ASN:CG	2:H:55:PRO:HD2	2.43	0.44
1:L:40:TRP:CE2	1:L:78:LEU:HB2	2.53	0.43
2:D:33:TRP:CH2	2:D:52:ARG:CZ	3.02	0.43
2:H:141:VAL:O	2:H:187:THR:HG23	2.18	0.43
1:C:24:ARG:HG2	1:C:75:ASP:OD1	2.18	0.43
2:D:85:MET:HE2	2:D:88:LEU:HD21	2.01	0.43
2:H:4:LEU:HD23	2:H:4:LEU:HA	1.82	0.43
1:C:217:ASN:O	1:C:219:CYS:N	2.52	0.43
2:D:148:LYS:HE3	4:D:534:HOH:O	2.19	0.43
2:H:3:LYS:HG3	4:H:631:HOH:O	2.18	0.42
1:L:24:ARG:HD3	1:L:75:ASP:OD1	2.19	0.42
1:C:123:PHE:CD2	2:D:129:LEU:HB3	2.54	0.42
1:C:84:GLU:O	1:C:87:ASP:HB2	2.19	0.42
1:C:100:PRO:HB3	2:D:47:TRP:CZ3	2.54	0.42
2:D:137:LYS:HG3	2:D:141:VAL:HG13	2.01	0.42
1:C:31:HIS:C	1:C:33:ASN:H	2.25	0.42
4:L:558:HOH:O	2:H:148:LYS:HD3	2.20	0.42
2:D:194:PRO:O	2:D:195:SER:C	2.62	0.42
1:L:149:ILE:HG12	1:L:150:ASN:H	1.84	0.42
2:H:207:SER:O	2:H:208:SER:C	2.59	0.42
2:H:218:ARG:O	2:H:218:ARG:HG3	2.20	0.42
1:C:208:SER:HA	1:C:209:PRO:HD3	1.93	0.42
1:C:29:LEU:O	1:C:36:THR:HA	2.19	0.41
1:C:63:VAL:HA	1:C:64:PRO:HD3	1.88	0.41
2:D:52:ARG:O	2:D:58:TYR:HA	2.20	0.41
1:C:172:ASN:O	1:C:176:SER:HA	2.20	0.41
1:L:50:LYS:HE2	1:L:50:LYS:HB3	1.67	0.41
1:L:54:TYR:OH	3:L:300:FLU:H7	2.20	0.41
2:H:2:VAL:HG23	2:H:3:LYS:N	2.35	0.41
2:D:219:ASN:O	2:D:220:CYS:C	2.64	0.41
1:C:118:PRO:HB3	1:C:144:PHE:HD2	1.85	0.41
1:C:28:SER:HA	1:C:74:THR:CG2	2.50	0.41
1:C:174:LYS:HE3	1:C:174:LYS:HB2	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:191:TYR:O	1:L:216:ARG:HD2	2.20	0.41
1:C:165:LEU:HD11	2:D:176:GLN:OE1	2.20	0.41
2:D:85:MET:HE1	2:D:96:TYR:CZ	2.56	0.41
2:D:175:LEU:HD23	2:D:180:TYR:CZ	2.56	0.41
2:H:218:ARG:HH22	2:H:220:CYS:HB2	1.85	0.41
1:C:122:ILE:O	1:C:122:ILE:HG23	2.20	0.41
1:L:189:ASP:O	1:L:193:ARG:HG3	2.21	0.40
1:C:191:TYR:O	1:C:197:TYR:OH	2.34	0.40
2:H:164:LEU:HD12	2:H:164:LEU:HA	1.90	0.40
2:H:169:HIS:HB2	2:H:185:SER:OG	2.21	0.40
2:D:39:GLN:HA	2:D:44:GLY:O	2.21	0.40
1:L:12:PRO:HA	1:L:110:GLU:O	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	C	217/219 (99%)	203 (94%)	9 (4%)	5 (2%)	5	4
1	L	217/219 (99%)	208 (96%)	7 (3%)	2 (1%)	14	17
2	D	218/220 (99%)	199 (91%)	18 (8%)	1 (0%)	24	31
2	H	218/220 (99%)	205 (94%)	12 (6%)	1 (0%)	24	31
All	All	870/878 (99%)	815 (94%)	46 (5%)	9 (1%)	12	15

All (9) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	L	204	LYS
1	C	73	GLY
1	C	81	SER

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Mol	Chain	Res	Type
2	H	161	SER
1	C	56	VAL
2	D	219	ASN
1	L	157	GLY
1	C	218	GLU
1	C	55	LYS

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	197/197 (100%)	185 (94%)	12 (6%)	17	24
1	L	197/197 (100%)	187 (95%)	10 (5%)	21	32
2	D	189/189 (100%)	172 (91%)	17 (9%)	9	12
2	H	189/189 (100%)	170 (90%)	19 (10%)	7	9
All	All	772/772 (100%)	714 (92%)	58 (8%)	12	17

All (58) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	9	LEU
1	L	20	SER
1	L	42	LEU
1	L	77	THR
1	L	78	LEU
1	L	136	SER
1	L	159	GLU
1	L	161	GLN
1	L	180	MET
1	L	219	CYS
2	H	2	VAL
2	H	5	ASP
2	H	6	GLU
2	H	11	LEU
2	H	45	LEU

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Mol	Chain	Res	Type
2	H	52	ARG
2	H	54	LYS
2	H	67	LYS
2	H	77	SER
2	H	81	VAL
2	H	129	LEU
2	H	137	LYS
2	H	165	SER
2	H	182	LEU
2	H	197	THR
2	H	199	THR
2	H	205	PRO
2	H	210	LYS
2	H	211	VAL
1	C	13	VAL
1	C	14	SER
1	C	32	SER
1	C	42	LEU
1	C	70	SER
1	C	82	ARG
1	C	84	GLU
1	C	96	SER
1	C	131	THR
1	C	159	GLU
1	C	202	THR
1	C	204	LYS
2	D	2	VAL
2	D	6	GLU
2	D	11	LEU
2	D	17	PRO
2	D	52	ARG
2	D	57	ASN
2	D	71	THR
2	D	77	SER
2	D	81	VAL
2	D	129	LEU
2	D	155	VAL
2	D	182	LEU
2	D	192	SER
2	D	196	GLN
2	D	199	THR
2	D	219	ASN

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Mol	Chain	Res	Type
2	D	220	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	18	GLN
1	L	27	GLN
1	L	31	HIS
1	L	43	GLN
1	L	142	ASN
1	L	161	GLN
1	L	166	ASN
2	H	39	GLN
2	H	160	ASN
2	H	169	HIS
2	H	219	ASN
1	C	31	HIS
1	C	47	GLN
1	C	161	GLN
1	C	166	ASN
2	D	57	ASN
2	D	196	GLN
2	D	204	HIS

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](#)

2 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
3	FLU	L	300	-	28,28,28	3.81	18 (64%)	41,41,41	4.09	29 (70%)
3	FLU	C	301	-	28,28,28	4.34	20 (71%)	41,41,41	4.03	29 (70%)

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
3	FLU	L	300	-	-	2/6/12/12	0/4/4/4
3	FLU	C	301	-	-	4/6/12/12	0/4/4/4

All (38) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	301	FLU	C14-C10	-10.65	1.35	1.49
3	C	301	FLU	O2-C3	9.91	1.53	1.38
3	L	300	FLU	C14-C10	-9.04	1.37	1.49
3	L	300	FLU	O2-C3	7.52	1.49	1.38
3	C	301	FLU	O2-C4	-6.36	1.25	1.37
3	C	301	FLU	O1-C1	-5.96	1.23	1.37
3	L	300	FLU	O1-C1	-5.90	1.23	1.37
3	C	301	FLU	O4-C20	5.75	1.39	1.22
3	L	300	FLU	O4-C20	5.43	1.38	1.22
3	C	301	FLU	C12-C11	5.35	1.48	1.39
3	L	300	FLU	O2-C4	-5.33	1.27	1.37
3	L	300	FLU	C12-C11	5.25	1.47	1.39
3	C	301	FLU	C9-C10	5.12	1.54	1.40
3	L	300	FLU	C2-C1	5.09	1.46	1.39
3	C	301	FLU	C2-C1	4.52	1.45	1.39
3	L	300	FLU	C17-C16	4.22	1.47	1.38
3	C	301	FLU	C17-C16	4.08	1.47	1.38
3	L	300	FLU	C9-C10	3.90	1.51	1.40
3	C	301	FLU	C19-C20	-3.85	1.41	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	301	FLU	C8-C7	3.83	1.44	1.35
3	L	300	FLU	C2-C3	3.69	1.45	1.38
3	C	301	FLU	C9-C4	-3.54	1.36	1.43
3	C	301	FLU	C19-C14	3.38	1.46	1.40
3	L	300	FLU	C19-C20	-3.35	1.42	1.49
3	L	300	FLU	C8-C7	3.34	1.43	1.35
3	L	300	FLU	C9-C4	-3.05	1.37	1.43
3	C	301	FLU	C17-C18	3.04	1.44	1.38
3	L	300	FLU	C5-C4	2.90	1.45	1.37
3	C	301	FLU	C5-C4	2.60	1.44	1.37
3	C	301	FLU	C13-C12	2.56	1.43	1.38
3	C	301	FLU	C11-C10	-2.51	1.40	1.47
3	C	301	FLU	C7-C6	-2.46	1.39	1.46
3	C	301	FLU	C15-C14	2.45	1.43	1.39
3	L	300	FLU	C8-C9	2.44	1.45	1.40
3	L	300	FLU	C17-C18	2.34	1.42	1.38
3	L	300	FLU	C19-C14	2.24	1.44	1.40
3	C	301	FLU	C2-C3	2.22	1.42	1.38
3	L	300	FLU	C7-C6	-2.16	1.40	1.46

All (58) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	301	FLU	C14-C10-C11	8.11	130.40	119.91
3	L	300	FLU	O2-C4-C9	7.74	129.61	120.36
3	L	300	FLU	C14-C10-C11	7.49	129.60	119.91
3	L	300	FLU	C3-C11-C10	7.36	128.43	118.65
3	C	301	FLU	O2-C4-C9	7.16	128.92	120.36
3	L	300	FLU	O2-C4-C5	-7.15	106.07	116.73
3	C	301	FLU	O2-C4-C5	-7.01	106.28	116.73
3	L	300	FLU	C4-C5-C6	-6.89	113.55	120.66
3	L	300	FLU	C11-C10-C9	-6.85	105.31	120.00
3	L	300	FLU	C7-C6-C5	6.83	124.05	117.12
3	C	301	FLU	C3-C11-C10	6.78	127.66	118.65
3	C	301	FLU	C11-C10-C9	-6.69	105.67	120.00
3	C	301	FLU	O4-C20-C19	-5.97	107.72	121.97
3	C	301	FLU	O5-C20-C19	5.92	132.10	115.28
3	C	301	FLU	C4-C5-C6	-5.89	114.59	120.66
3	L	300	FLU	C12-C11-C10	-5.60	112.22	123.22
3	C	301	FLU	C7-C6-C5	5.48	122.67	117.12
3	L	300	FLU	C16-C17-C18	-5.43	113.53	120.24
3	C	301	FLU	C12-C11-C10	-5.40	112.61	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	L	300	FLU	C17-C18-C19	5.37	129.49	119.80
3	C	301	FLU	C17-C18-C19	5.35	129.46	119.80
3	C	301	FLU	C16-C17-C18	-4.90	114.19	120.24
3	C	301	FLU	C3-O2-C4	-4.77	111.24	119.73
3	L	300	FLU	C3-O2-C4	-4.63	111.49	119.73
3	L	300	FLU	O5-C20-C19	4.41	127.82	115.28
3	L	300	FLU	C8-C9-C10	-4.38	114.83	123.90
3	C	301	FLU	C10-C9-C4	4.28	124.66	119.37
3	C	301	FLU	C8-C9-C10	-4.22	115.18	123.90
3	C	301	FLU	C18-C19-C14	-4.15	114.61	119.26
3	L	300	FLU	C18-C19-C14	-4.04	114.72	119.26
3	L	300	FLU	C3-C2-C1	-3.95	112.76	118.98
3	L	300	FLU	C10-C9-C4	3.91	124.20	119.37
3	L	300	FLU	C14-C10-C9	3.90	125.09	120.33
3	L	300	FLU	C12-C13-C1	3.74	123.84	119.88
3	L	300	FLU	O4-C20-C19	-3.55	113.50	121.97
3	C	301	FLU	C13-C12-C11	-3.36	115.32	120.86
3	C	301	FLU	C19-C14-C10	-3.29	118.82	123.42
3	C	301	FLU	C3-C2-C1	-3.26	113.85	118.98
3	L	300	FLU	C19-C14-C10	-3.26	118.87	123.42
3	C	301	FLU	C12-C13-C1	3.16	123.22	119.88
3	L	300	FLU	O3-C6-C5	-3.14	116.96	121.43
3	C	301	FLU	C16-C15-C14	3.14	125.46	119.80
3	L	300	FLU	C13-C12-C11	-3.10	115.75	120.86
3	C	301	FLU	C14-C10-C9	2.94	123.93	120.33
3	L	300	FLU	C16-C15-C14	2.93	125.10	119.80
3	L	300	FLU	C8-C9-C4	2.67	120.96	115.59
3	L	300	FLU	C7-C8-C9	-2.56	116.33	121.16
3	C	301	FLU	O3-C6-C5	-2.42	117.99	121.43
3	C	301	FLU	C15-C14-C10	2.40	122.96	118.36
3	C	301	FLU	C7-C8-C9	-2.34	116.75	121.16
3	L	300	FLU	C13-C1-C2	2.28	122.68	120.19
3	C	301	FLU	C8-C9-C4	2.27	120.16	115.59
3	L	300	FLU	C2-C3-C11	2.24	125.60	121.39
3	C	301	FLU	C13-C1-C2	2.23	122.64	120.19
3	L	300	FLU	O5-C20-O4	-2.22	118.59	123.35
3	L	300	FLU	C15-C14-C10	2.17	122.53	118.36
3	C	301	FLU	O2-C3-C2	-2.06	112.92	115.83
3	C	301	FLU	C2-C3-C11	2.05	125.25	121.39

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	301	FLU	C18-C19-C20-O4
3	C	301	FLU	C18-C19-C20-O5
3	C	301	FLU	C14-C19-C20-O4
3	C	301	FLU	C14-C19-C20-O5
3	L	300	FLU	C18-C19-C20-O5
3	L	300	FLU	C18-C19-C20-O4

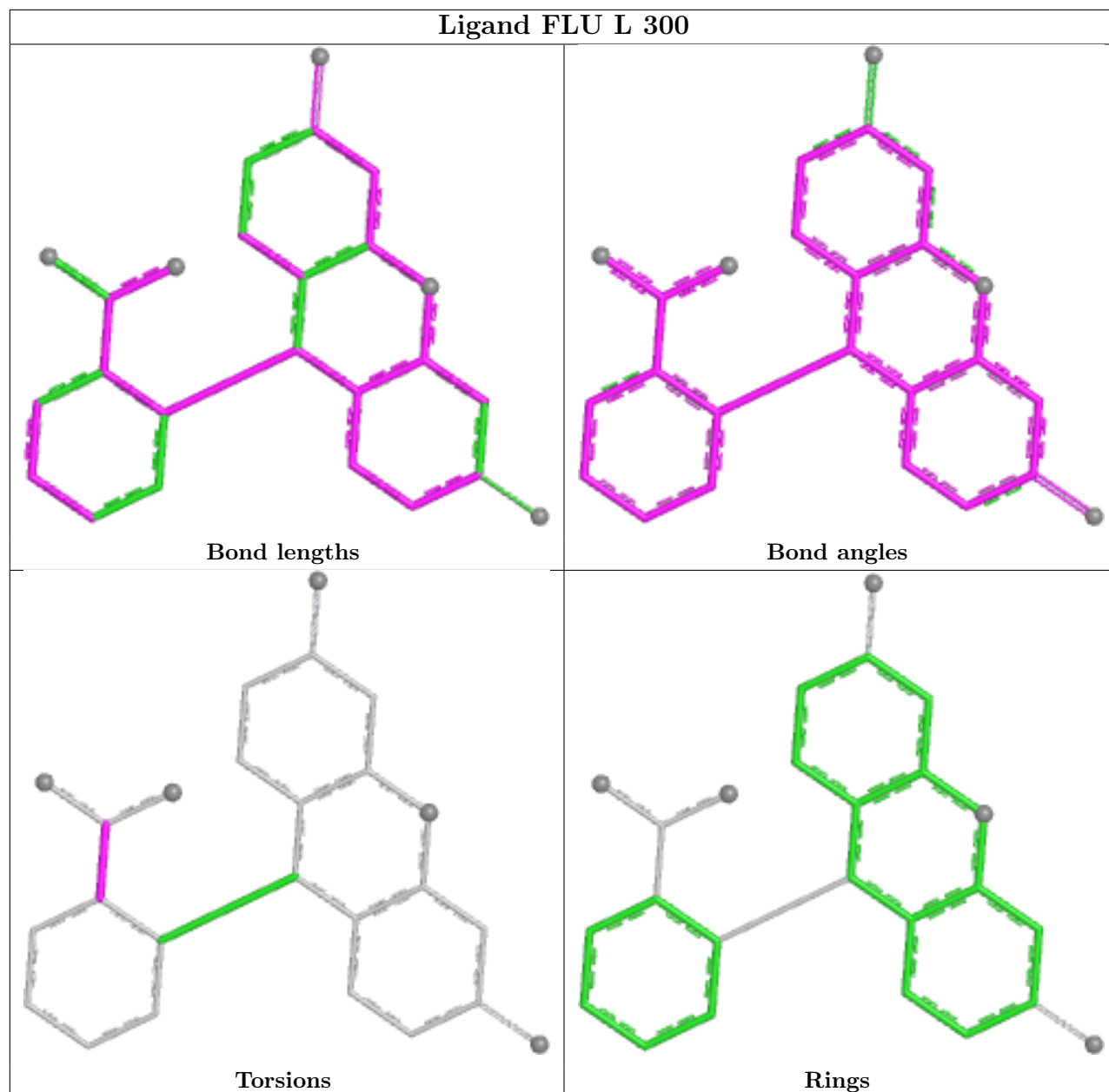
There are no ring outliers.

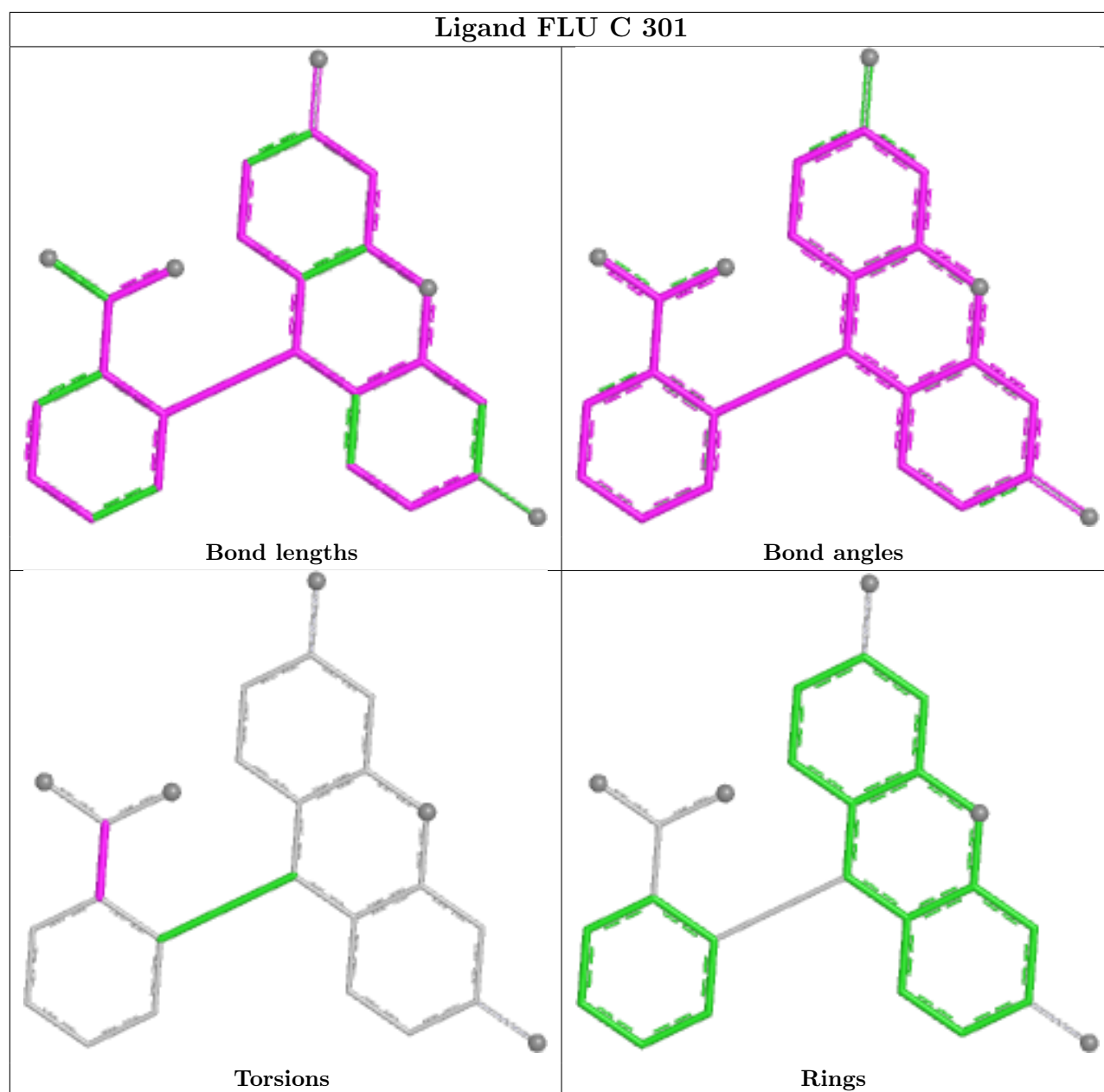
2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	L	300	FLU	1	0
3	C	301	FLU	2	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.

Ligand FLU L 300





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	C	219/219 (100%)	0.30	5 (2%) 61 63	24, 46, 66, 98	8 (3%)
1	L	219/219 (100%)	0.12	6 (2%) 56 58	21, 40, 69, 102	9 (4%)
2	D	220/220 (100%)	0.17	10 (4%) 38 40	24, 40, 83, 105	6 (2%)
2	H	220/220 (100%)	0.15	12 (5%) 30 32	19, 37, 79, 104	11 (5%)
All	All	878/878 (100%)	0.18	33 (3%) 44 46	19, 41, 72, 105	34 (3%)

All (33) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	133	THR	9.0
2	H	219	ASN	7.1
1	C	219	CYS	5.6
2	H	135	ALA	5.4
2	H	220	CYS	4.3
2	D	135	ALA	4.1
2	D	136	LEU	3.8
2	D	133	THR	3.8
2	D	132	GLY	3.7
2	H	137	LYS	3.6
1	C	162	ASN	3.4
2	H	138	SER	3.1
2	H	132	GLY	3.1
2	D	219	ASN	3.1
2	D	134	ALA	3.0
2	D	137	LYS	3.0
1	L	162	ASN	2.8
2	H	134	ALA	2.7
2	D	220	CYS	2.5
1	L	214	PHE	2.5
2	H	139	SER	2.5

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Mol	Chain	Res	Type	RSRZ
2	H	192	SER	2.3
2	D	139	SER	2.3
1	C	161	GLN	2.3
2	H	193	TRP	2.3
1	C	217	ASN	2.1
2	H	218	ARG	2.1
1	L	186	LEU	2.1
1	C	218	GLU	2.1
1	L	157	GLY	2.1
2	D	165	SER	2.1
1	L	75	ASP	2.0
1	L	158	SER	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](#)

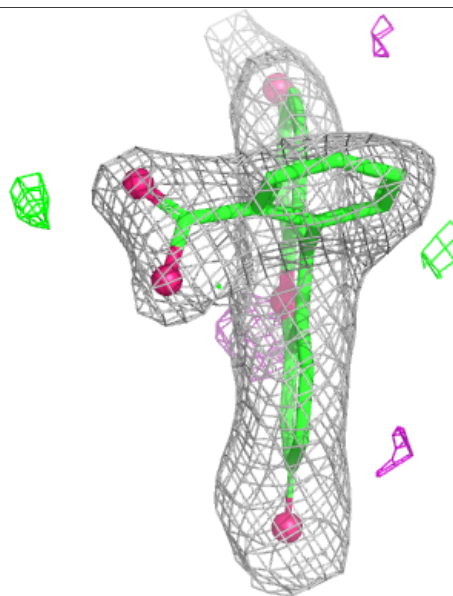
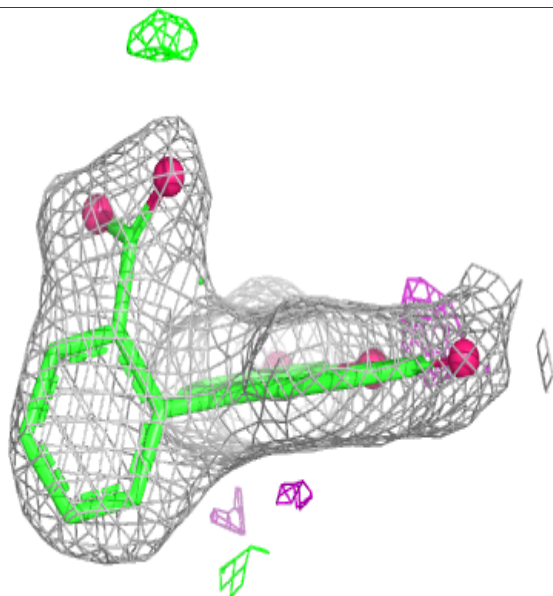
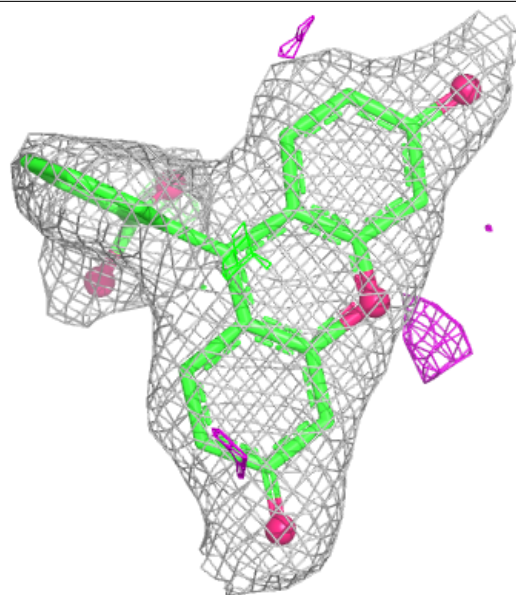
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	FLU	C	301	25/25	0.91	0.10	39,44,52,53	0
3	FLU	L	300	25/25	0.95	0.07	24,28,30,31	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.

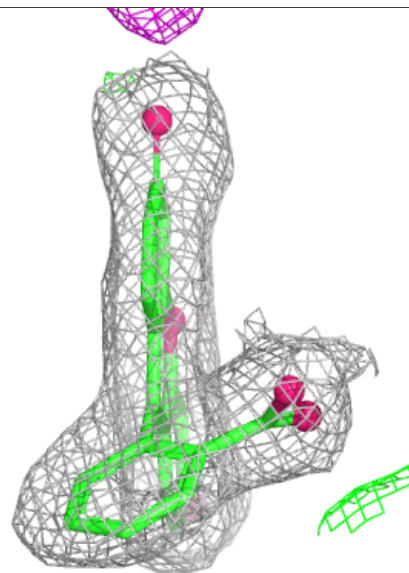
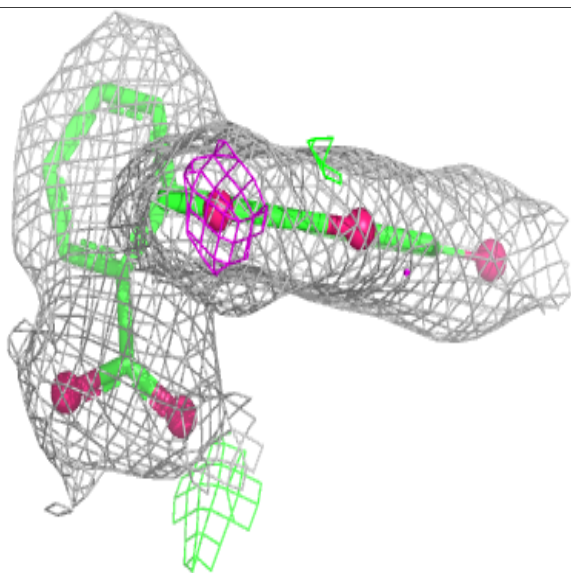
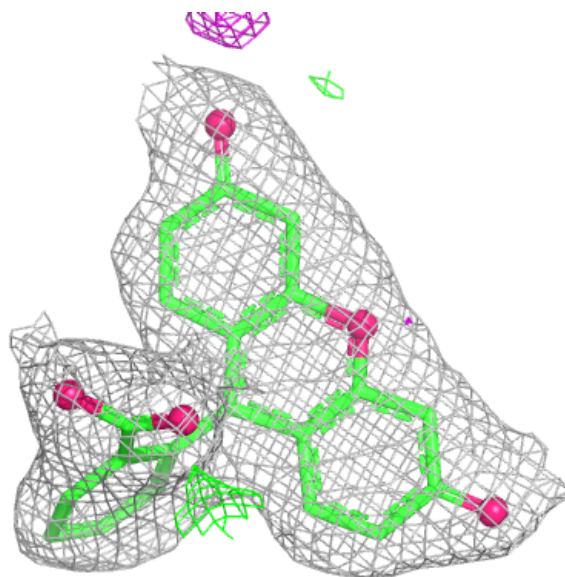
Electron density around FLU C 301:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around FLU L 300:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.