



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 12:00 AM UTC

PDB ID : 7UCW / pdb_00007ucw
Title : Structure of mouse Decr1 in complex with 2'-5' oligoadenylate
Authors : Govande, A.A.; Kranzusch, P.J.
Deposited on : 2022-03-17
Resolution : 1.35 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

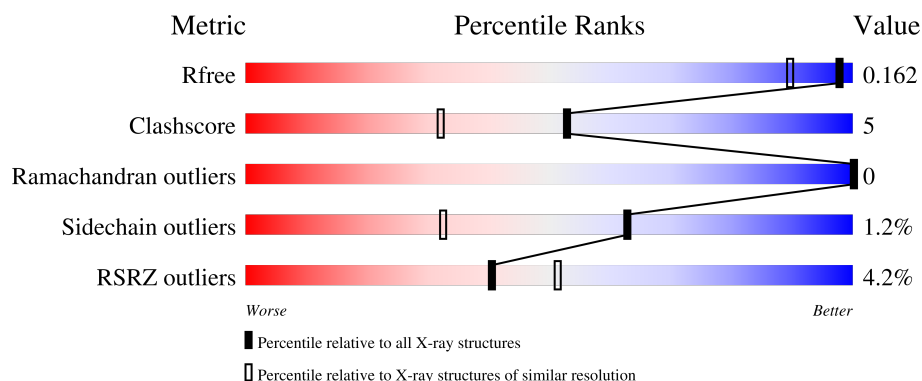
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

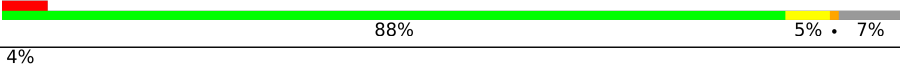
The reported resolution of this entry is 1.35 Å.

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	1216 (1.36-1.36)
Clashscore	190562	1232 (1.36-1.36)
Ramachandran outliers	187476	1220 (1.36-1.36)
Sidechain outliers	187428	1220 (1.36-1.36)
RSRZ outliers	180081	1214 (1.36-1.36)

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	301	
1	B	301	
1	C	301	
1	D	301	

2 Entry composition [i](#)

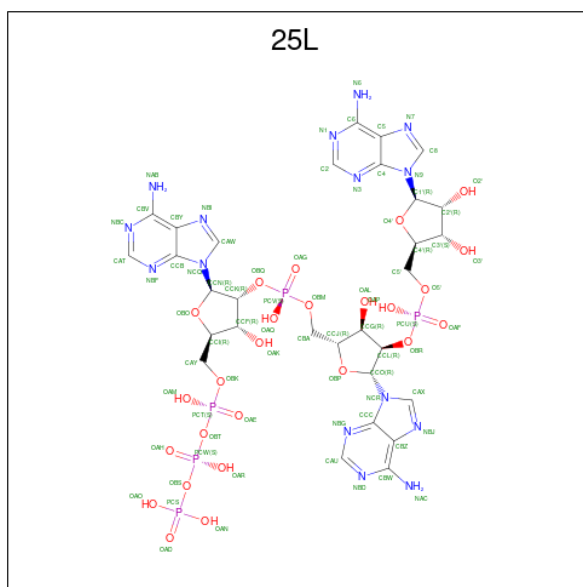
There are 3 unique types of molecules in this entry. The entry contains 18475 atoms, of which 8731 are hydrogens and 0 are deuteriums.

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 Decr1 protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	278	Total	C	H	N	O	S	0	3	0
			4268	1350	2149	357	400	12			
1	B	281	Total	C	H	N	O	S	0	0	0
			4281	1355	2151	361	402	12			
1	C	279	Total	C	H	N	O	S	0	1	0
			4258	1349	2140	356	401	12			
1	D	279	Total	C	H	N	O	S	0	1	0
			4278	1354	2155	359	398	12			

- Molecule 2 is $[[[(2R,3R,4R,5R)-5-(6\text{-aminopurin-9-yl})-4-[[[(2R,3R,4R,5R)-5-(6\text{-aminopurin-9-yl})-4-[[[(2R,3S,4R,5R)-5-(6\text{-aminopurin-9-yl})-3,4\text{-dihydroxy-oxolan-2-yl}]methoxy-hydroxy-phosphoryl]oxy-3-hydroxy-oxolan-2-yl}]methoxy-hydroxy-phosphoryl]oxy-3-hydroxy-oxolan-2-yl}]methoxy-hydroxy-phosphoryl] phosphono hydrogen phosphate$ (CCD ID: 25L) (formula: $C_{30}H_{40}N_{15}O_{25}P_5$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	
2	A	1	Total 109	C 30	H 34	N 15	O 25	P 5	0	0
2	B	1	Total 109	C 30	H 34	N 15	O 25	P 5	0	0
2	C	1	Total 109	C 30	H 34	N 15	O 25	P 5	0	0
2	D	1	Total 109	C 30	H 34	N 15	O 25	P 5	0	0

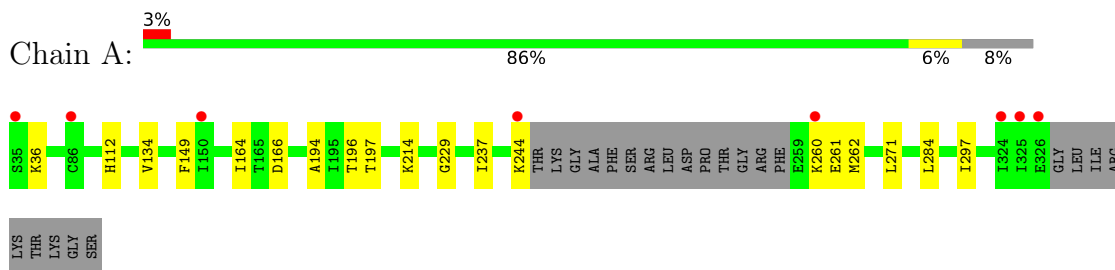
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	252	Total 252	O 252	0	0
3	B	233	Total 233	O 233	0	0
3	C	231	Total 231	O 231	0	0
3	D	238	Total 238	O 238	0	0

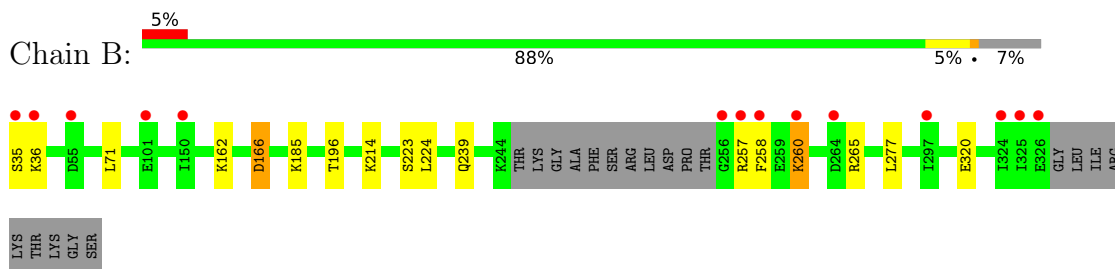
3 Residue-property plots [i](#)

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.

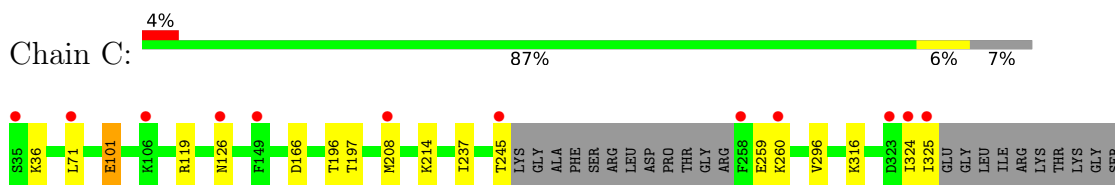
- Molecule 1: Decr1 protein



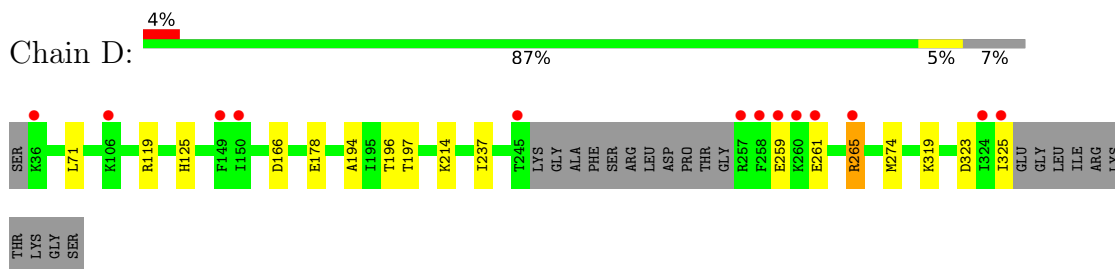
- Molecule 1: Decr1 protein



- Molecule 1: Decr1 protein



- Molecule 1: Decr1 protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α , β , γ	82.38Å 117.19Å 232.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	67.39 – 1.35 67.39 – 1.35	Depositor EDS
% Data completeness (in resolution range)	99.7 (67.39-1.35) 99.7 (67.39-1.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.16 (at 1.35Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.151 , 0.160 0.154 , 0.162	Depositor DCC
R_{free} test set	2000 reflections (0.82%)	wwPDB-VP
Wilson B-factor (Å ²)	18.2	Xtriage
Anisotropy	0.087	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 38.9	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	0.98	EDS
Total number of atoms	18475	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.31% 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: 25L

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	0.42	0/2168	0.60	0/2931
1	B	0.34	0/2170	0.57	0/2932
1	C	0.37	0/2161	0.58	0/2922
1	D	0.39	0/2166	0.61	0/2928
All	All	0.38	0/8665	0.59	0/11713

There are no bond length outliers.

There are no bond angle outliers.

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	2119	2149	2149	21	0
1	B	2130	2151	2151	15	0
1	C	2118	2140	2140	20	0
1	D	2123	2155	2155	20	0
2	A	75	34	33	10	0
2	B	75	34	32	1	0
2	C	75	34	33	2	0
2	D	75	34	32	2	0
3	A	252	0	0	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	233	0	0	7	1
3	C	231	0	0	11	0
3	D	238	0	0	9	2
All	All	9744	8731	8725	88	2

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 (88) 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)
2:A:401:25L:OBP	2:A:401:25L:CCJ	1.65	1.29
2:D:401:25L:CCJ	2:D:401:25L:OBP	1.66	1.22
2:B:401:25L:CCJ	2:B:401:25L:OBP	1.66	1.19
2:C:401:25L:CCJ	2:C:401:25L:OBP	1.66	1.12
1:C:126:ASN:HB2	3:C:504:HOH:O	1.48	1.11
1:B:239:GLN:NE2	3:B:501:HOH:O	1.86	1.06
1:A:166:ASP:CG	3:A:503:HOH:O	2.14	0.91
1:A:166:ASP:CB	3:A:503:HOH:O	2.21	0.88
2:A:401:25L:O2'	3:A:502:HOH:O	1.92	0.88
1:D:166:ASP:OD1	3:D:501:HOH:O	1.92	0.86
1:C:126:ASN:HB2	3:C:680:HOH:O	1.76	0.85
1:D:166:ASP:CG	3:D:503:HOH:O	2.20	0.84
1:A:166:ASP:HB2	3:A:503:HOH:O	1.75	0.82
1:D:166:ASP:CG	3:D:502:HOH:O	2.23	0.81
1:D:166:ASP:CB	3:D:503:HOH:O	2.29	0.81
1:A:262:MET:SD	3:B:625:HOH:O	2.37	0.80
1:C:126:ASN:CB	3:C:504:HOH:O	2.16	0.79
1:D:119:ARG:HD3	1:D:166:ASP:OD2	1.86	0.76
1:A:194:ALA:HB3	1:A:237[A]:ILE:HD13	1.69	0.74
1:B:71:LEU:HD13	1:B:277:LEU:CD2	2.16	0.74
2:A:401:25L:HCO	2:A:401:25L:H5'	1.72	0.72
1:B:265:ARG:CZ	3:B:505:HOH:O	2.38	0.72
1:D:166:ASP:HB2	3:D:502:HOH:O	1.90	0.71
1:D:166:ASP:HB2	3:D:503:HOH:O	1.87	0.71
2:A:401:25L:OAR	3:A:504:HOH:O	2.09	0.71
1:B:71:LEU:HD13	1:B:277:LEU:HD21	1.72	0.71
1:D:265:ARG:HB2	1:D:265:ARG:HH11	1.56	0.70
1:A:166:ASP:OD2	3:A:503:HOH:O	2.07	0.69
1:C:316:LYS:NZ	1:D:261:GLU:OE2	2.25	0.69
1:D:166:ASP:CB	3:D:502:HOH:O	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:244:LYS:CG	1:A:271:LEU:HD12	2.24	0.68
1:B:320:GLU:OE1	3:B:502:HOH:O	2.11	0.67
2:A:401:25L:N7	3:A:501:HOH:O	2.27	0.67
1:C:325:ILE:O	3:C:501:HOH:O	2.11	0.67
1:C:324:ILE:HG22	1:C:324:ILE:O	1.96	0.66
1:D:166:ASP:OD2	3:D:502:HOH:O	2.12	0.64
2:A:401:25L:C5'	2:A:401:25L:H8	2.27	0.64
1:A:244:LYS:HG2	1:A:271:LEU:HD12	1.81	0.63
1:C:166[B]:ASP:OD2	3:C:503:HOH:O	2.16	0.62
1:A:229:GLY:CA	3:A:505:HOH:O	2.49	0.60
1:D:194:ALA:HB3	1:D:237[B]:ILE:HD13	1.81	0.60
1:C:245:THR:HG23	1:C:245:THR:O	2.03	0.59
1:B:36:LYS:NZ	1:B:260:LYS:HG3	2.18	0.59
2:A:401:25L:N6	3:A:501:HOH:O	1.84	0.59
1:C:126:ASN:ND2	3:C:504:HOH:O	2.35	0.59
1:B:162:LYS:O	1:B:166:ASP:HB2	2.03	0.58
1:D:71:LEU:HD23	1:D:274:MET:HG2	1.86	0.58
1:B:265:ARG:NH1	3:B:505:HOH:O	2.35	0.56
1:D:214:LYS:NZ	3:D:504:HOH:O	2.40	0.55
1:C:36:LYS:HD2	1:C:260:LYS:HG3	1.88	0.54
1:A:244:LYS:HG3	1:A:271:LEU:HB2	1.89	0.53
1:A:196:THR:HA	1:A:214:LYS:HD2	1.93	0.51
1:C:119:ARG:CD	3:C:502:HOH:O	2.58	0.51
1:A:262:MET:CE	3:B:625:HOH:O	2.56	0.51
1:C:119:ARG:HD2	3:C:502:HOH:O	2.10	0.51
2:A:401:25L:OBP	2:A:401:25L:CBA	2.52	0.51
1:A:194:ALA:HB3	1:A:237[A]:ILE:CD1	2.40	0.50
1:B:36:LYS:CE	1:B:260:LYS:HG3	2.41	0.49
1:A:36:LYS:HG2	1:A:260:LYS:HE2	1.95	0.49
1:D:196:THR:HA	1:D:214:LYS:HD2	1.95	0.48
1:D:194:ALA:HB3	1:D:237[B]:ILE:CD1	2.43	0.48
1:B:196:THR:HA	1:B:214:LYS:HD2	1.95	0.48
1:C:101:GLU:HG3	3:C:531:HOH:O	2.14	0.47
1:A:36:LYS:HG2	1:A:260:LYS:CE	2.44	0.47
1:A:112[B]:HIS:CD2	1:A:134:VAL:HG21	2.49	0.47
1:C:324:ILE:O	1:C:324:ILE:CG2	2.62	0.47
1:A:284:LEU:HD11	1:A:297:ILE:HD12	1.96	0.47
2:A:401:25L:H8	2:A:401:25L:H5'A	1.97	0.47
1:B:257:ARG:HA	1:B:260:LYS:CD	2.46	0.46
1:A:244:LYS:CE	1:A:271:LEU:HD12	2.46	0.45
1:D:319:LYS:NZ	1:D:323:ASP:OD2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:36:LYS:HZ1	1:B:260:LYS:HG3	1.82	0.44
2:D:401:25L:OAH	2:D:401:25L:CCG	2.66	0.44
1:D:125:HIS:HA	1:D:178:GLU:HG2	1.99	0.44
1:D:265:ARG:HH11	1:D:265:ARG:CB	2.26	0.44
1:B:258:PHE:CD1	1:B:258:PHE:N	2.83	0.44
1:A:149:PHE:CE2	1:A:164:ILE:HD11	2.53	0.43
1:D:119:ARG:CD	1:D:166:ASP:OD2	2.62	0.43
1:C:196:THR:HA	1:C:214:LYS:HD2	1.99	0.43
1:A:261:GLU:HG3	3:A:681:HOH:O	2.18	0.43
1:B:224:LEU:HD21	1:C:208:MET:SD	2.59	0.42
1:C:237:ILE:HD12	1:C:296:VAL:HG22	2.01	0.42
1:B:223:SER:HB2	1:C:208:MET:HG3	2.01	0.42
1:A:262:MET:HE2	3:B:625:HOH:O	2.17	0.42
1:C:71:LEU:HD13	3:C:629:HOH:O	2.20	0.41
2:C:401:25L:H4'	3:C:664:HOH:O	2.20	0.41
2:A:401:25L:H5'	2:A:401:25L:H8	2.02	0.40
1:C:36:LYS:NZ	1:C:259:GLU:CG	2.84	0.40

All (2) 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)
3:B:587:HOH:O	3:D:706:HOH:O[3_455]	1.98	0.22
3:D:697:HOH:O	3:D:714:HOH:O[3_455]	1.99	0.21

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	277/301 (92%)	271 (98%)	6 (2%)	0	100	100
1	B	277/301 (92%)	271 (98%)	6 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	276/301 (92%)	268 (97%)	8 (3%)	0	100	100
1	D	276/301 (92%)	269 (98%)	7 (2%)	0	100	100
All	All	1106/1204 (92%)	1079 (98%)	27 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	229/244 (94%)	228 (100%)	1 (0%)	84	69
1	B	228/244 (93%)	224 (98%)	4 (2%)	51	19
1	C	228/244 (93%)	226 (99%)	2 (1%)	70	44
1	D	228/244 (93%)	224 (98%)	4 (2%)	51	19
All	All	913/976 (94%)	902 (99%)	11 (1%)	63	32

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	197	THR
1	B	35	SER
1	B	166	ASP
1	B	185	LYS
1	B	260	LYS
1	C	101	GLU
1	C	197	THR
1	D	197	THR
1	D	259	GLU
1	D	265	ARG
1	D	325	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	GLN
1	B	143	ASN
1	B	239	GLN
1	C	143	ASN
1	D	144	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

4 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	25L	D	401	-	82,83,83	3.10	28 (34%)	122,130,130	1.86	29 (23%)
2	25L	C	401	-	82,83,83	3.15	29 (35%)	122,130,130	1.92	31 (25%)
2	25L	B	401	-	82,83,83	3.17	29 (35%)	122,130,130	1.90	29 (23%)
2	25L	A	401	-	82,83,83	3.09	29 (35%)	122,130,130	1.90	32 (26%)

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	25L	D	401	-	-	10/52/100/100	0/9/9/9
2	25L	C	401	-	-	5/52/100/100	0/9/9/9
2	25L	B	401	-	-	5/52/100/100	0/9/9/9
2	25L	A	401	-	-	14/52/100/100	0/9/9/9

All (115) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	401	25L	OBP-CCJ	9.48	1.66	1.45
2	C	401	25L	OBP-CCJ	9.47	1.66	1.45
2	B	401	25L	OBP-CCJ	9.45	1.66	1.45
2	A	401	25L	OBP-CCJ	9.38	1.65	1.45
2	B	401	25L	CCK-CCN	-9.13	1.30	1.53
2	D	401	25L	O4'-C1'	8.70	1.62	1.42
2	C	401	25L	CCK-CCN	-8.55	1.32	1.53
2	C	401	25L	O4'-C1'	8.54	1.61	1.42
2	B	401	25L	O4'-C1'	8.53	1.61	1.42
2	D	401	25L	CCK-CCN	-8.48	1.32	1.53
2	A	401	25L	O4'-C1'	8.38	1.61	1.42
2	A	401	25L	PCW-OBS	7.82	1.67	1.59
2	C	401	25L	OBO-CCI	-7.70	1.27	1.45
2	B	401	25L	OBO-CCI	-7.70	1.27	1.45
2	A	401	25L	C2'-C1'	-7.63	1.29	1.53
2	A	401	25L	CCK-CCN	-7.63	1.34	1.53
2	B	401	25L	OBO-CCN	7.54	1.59	1.42
2	D	401	25L	C2'-C1'	-7.50	1.29	1.53
2	D	401	25L	PCW-OBS	7.45	1.67	1.59
2	C	401	25L	OBO-CCN	7.32	1.58	1.42
2	B	401	25L	C2'-C1'	-7.31	1.30	1.53
2	A	401	25L	OBO-CCN	7.25	1.58	1.42
2	D	401	25L	OBO-CCI	-7.20	1.29	1.45
2	C	401	25L	C2'-C1'	-7.12	1.31	1.53
2	B	401	25L	PCW-OBS	7.06	1.67	1.59
2	A	401	25L	O4'-C4'	-7.03	1.29	1.45
2	C	401	25L	PCW-OBS	6.96	1.67	1.59
2	B	401	25L	O4'-C4'	-6.85	1.29	1.45
2	D	401	25L	OBO-CCN	6.85	1.57	1.42
2	D	401	25L	CCG-CCJ	-6.84	1.35	1.53
2	B	401	25L	CCG-CCJ	-6.83	1.35	1.53
2	D	401	25L	O4'-C4'	-6.81	1.29	1.45
2	A	401	25L	OBO-CCI	-6.77	1.30	1.45
2	C	401	25L	CCG-CCJ	-6.76	1.35	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	25L	CCG-CCJ	-6.72	1.35	1.53
2	C	401	25L	PCW-OBT	6.67	1.66	1.59
2	C	401	25L	O4'-C4'	-6.63	1.30	1.45
2	C	401	25L	CBW-NAC	5.32	1.47	1.34
2	D	401	25L	CBW-NAC	5.28	1.47	1.34
2	B	401	25L	CBW-NAC	5.28	1.47	1.34
2	A	401	25L	CBW-NAC	5.12	1.47	1.34
2	B	401	25L	OBP-CCO	-5.02	1.30	1.42
2	D	401	25L	OBP-CCO	-4.96	1.30	1.42
2	B	401	25L	PCW-OBT	4.94	1.64	1.59
2	A	401	25L	PCW-OBT	4.90	1.64	1.59
2	C	401	25L	OBP-CCO	-4.82	1.30	1.42
2	D	401	25L	PCW-OBT	4.63	1.64	1.59
2	A	401	25L	OBP-CCO	-4.48	1.31	1.42
2	A	401	25L	C6-N6	4.10	1.44	1.34
2	A	401	25L	CAY-CCI	4.03	1.63	1.51
2	B	401	25L	O2'-C2'	3.96	1.52	1.43
2	D	401	25L	C6-N6	3.87	1.44	1.34
2	C	401	25L	C6-N6	3.85	1.44	1.34
2	B	401	25L	C6-N6	3.82	1.44	1.34
2	C	401	25L	O2'-C2'	3.80	1.52	1.43
2	D	401	25L	O2'-C2'	3.66	1.52	1.43
2	D	401	25L	CAY-CCI	3.64	1.62	1.51
2	C	401	25L	CAY-CCI	3.59	1.62	1.51
2	A	401	25L	O2'-C2'	3.58	1.51	1.43
2	B	401	25L	CAY-CCI	3.55	1.62	1.51
2	D	401	25L	CBV-NAB	3.28	1.42	1.34
2	C	401	25L	CBV-NAB	3.28	1.42	1.34
2	C	401	25L	PCU-O5'	3.24	1.72	1.59
2	B	401	25L	CBV-NAB	3.22	1.42	1.34
2	B	401	25L	PCU-O5'	3.19	1.71	1.59
2	C	401	25L	CCL-CCO	3.18	1.61	1.53
2	D	401	25L	PCU-O5'	3.14	1.71	1.59
2	C	401	25L	OAK-CCF	-3.08	1.35	1.43
2	B	401	25L	OBQ-CCK	3.06	1.54	1.44
2	B	401	25L	OAK-CCF	-3.02	1.35	1.43
2	B	401	25L	CCL-CCO	2.97	1.60	1.53
2	A	401	25L	CCL-CCO	2.97	1.60	1.53
2	D	401	25L	CCL-CCO	2.95	1.60	1.53
2	A	401	25L	PCU-OBP	2.93	1.68	1.59
2	D	401	25L	OBP-CCL	-2.83	1.34	1.44
2	C	401	25L	PCU-OBP	2.82	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	401	25L	OBR-CCL	-2.80	1.34	1.44
2	C	401	25L	OBQ-CCK	2.78	1.53	1.44
2	C	401	25L	OBR-CCL	-2.77	1.34	1.44
2	B	401	25L	PCU-OBK	2.76	1.67	1.59
2	A	401	25L	CBV-NAB	2.75	1.41	1.34
2	A	401	25L	OBR-CCL	-2.75	1.34	1.44
2	B	401	25L	CAW-NCQ	-2.74	1.32	1.37
2	D	401	25L	OAK-CCF	-2.74	1.36	1.43
2	A	401	25L	PCU-O5'	2.71	1.70	1.59
2	D	401	25L	OBQ-CCK	2.65	1.53	1.44
2	D	401	25L	PCU-OBK	2.65	1.67	1.59
2	C	401	25L	CAW-NCQ	-2.61	1.33	1.37
2	A	401	25L	CAW-NCQ	-2.58	1.33	1.37
2	B	401	25L	O3'-C3'	-2.56	1.36	1.43
2	A	401	25L	OAK-CCF	-2.55	1.36	1.43
2	D	401	25L	O3'-C3'	-2.51	1.36	1.43
2	A	401	25L	C8-N9	-2.47	1.33	1.37
2	A	401	25L	OBQ-CCK	2.47	1.52	1.44
2	A	401	25L	O3'-C3'	-2.43	1.36	1.43
2	B	401	25L	PCT-OBK	2.42	1.68	1.59
2	C	401	25L	PCT-OBK	2.39	1.68	1.59
2	B	401	25L	PCV-OBQ	2.36	1.66	1.59
2	C	401	25L	O3'-C3'	-2.34	1.37	1.43
2	B	401	25L	CBY-NBI	-2.33	1.34	1.39
2	A	401	25L	CAX-NCR	-2.30	1.33	1.37
2	D	401	25L	PCV-OBM	2.27	1.68	1.59
2	B	401	25L	CAX-NCR	-2.23	1.33	1.37
2	C	401	25L	PCT-OBT	2.21	1.61	1.59
2	A	401	25L	PCV-OBQ	2.19	1.65	1.59
2	D	401	25L	CAW-NCQ	-2.16	1.33	1.37
2	D	401	25L	CAX-NCR	-2.15	1.33	1.37
2	C	401	25L	PCV-OBQ	2.14	1.65	1.59
2	A	401	25L	PCT-OBK	2.14	1.67	1.59
2	B	401	25L	CCF-CCI	2.11	1.58	1.53
2	C	401	25L	C5'-C4'	2.10	1.57	1.51
2	A	401	25L	CCF-CCI	2.09	1.58	1.53
2	C	401	25L	CAX-NCR	-2.07	1.34	1.37
2	D	401	25L	PCV-OBQ	2.05	1.65	1.59
2	D	401	25L	PCT-OBK	2.02	1.67	1.59

All (121) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	401	25L	C5-C4-N3	-5.98	118.48	126.72
2	A	401	25L	C5-C4-N3	-5.76	118.79	126.72
2	D	401	25L	C5-C4-N3	-5.58	119.04	126.72
2	C	401	25L	C5-C4-N3	-5.53	119.10	126.72
2	C	401	25L	CBZ-CCC-NBG	-5.30	119.42	126.72
2	A	401	25L	N3-C4-N9	5.16	135.94	127.17
2	C	401	25L	NBF-CAT-NBC	-4.93	121.11	128.58
2	C	401	25L	N3-C2-N1	-4.90	121.17	128.58
2	B	401	25L	N3-C4-N9	4.86	135.43	127.17
2	B	401	25L	NBG-CAU-NBD	-4.82	121.29	128.58
2	A	401	25L	NBG-CAU-NBD	-4.81	121.31	128.58
2	B	401	25L	N3-C2-N1	-4.74	121.41	128.58
2	C	401	25L	NBG-CAU-NBD	-4.64	121.55	128.58
2	D	401	25L	NBG-CAU-NBD	-4.60	121.62	128.58
2	D	401	25L	CBZ-CCC-NBG	-4.55	120.45	126.72
2	C	401	25L	N3-C4-N9	4.54	134.90	127.17
2	D	401	25L	N3-C2-N1	-4.54	121.71	128.58
2	D	401	25L	NBF-CAT-NBC	-4.45	121.84	128.58
2	B	401	25L	CBZ-CCC-NBG	-4.39	120.68	126.72
2	C	401	25L	CCB-NCQ-CAW	4.36	110.32	105.74
2	D	401	25L	CBY-CCB-NBF	-4.34	120.74	126.72
2	D	401	25L	N3-C4-N9	4.25	134.40	127.17
2	B	401	25L	CBY-CCB-NBF	-4.12	121.04	126.72
2	A	401	25L	N3-C2-N1	-4.09	122.40	128.58
2	A	401	25L	C5-N7-C8	4.05	109.81	103.45
2	B	401	25L	C2-N3-C4	3.97	121.52	111.83
2	C	401	25L	NBG-CCC-NCR	3.95	133.89	127.17
2	B	401	25L	NBG-CCC-NCR	3.93	133.85	127.17
2	A	401	25L	CBY-CCB-NBF	-3.81	121.47	126.72
2	C	401	25L	C2-N3-C4	3.80	121.11	111.83
2	D	401	25L	C2-N3-C4	3.79	121.08	111.83
2	B	401	25L	NBF-CAT-NBC	-3.75	122.90	128.58
2	A	401	25L	NCR-CAX-NBJ	-3.66	108.75	113.94
2	A	401	25L	N9-C8-N7	-3.65	108.76	113.94
2	A	401	25L	CBZ-CCC-NBG	-3.61	121.75	126.72
2	C	401	25L	CBY-CCB-NBF	-3.60	121.75	126.72
2	B	401	25L	CCC-NCR-CAX	3.60	109.52	105.74
2	C	401	25L	NCQ-CAW-NBI	-3.58	108.86	113.94
2	C	401	25L	CAU-NBG-CCC	3.57	120.56	111.83
2	B	401	25L	NCR-CAX-NBJ	-3.55	108.89	113.94
2	B	401	25L	N9-C8-N7	-3.54	108.92	113.94
2	B	401	25L	NBF-CCB-NCQ	3.52	133.16	127.17
2	D	401	25L	N9-C8-N7	-3.52	108.94	113.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	401	25L	CCC-CBZ-NBJ	-3.49	106.59	110.58
2	D	401	25L	NCR-CAX-NBJ	-3.49	108.99	113.94
2	D	401	25L	CAU-NBG-CCC	3.47	120.31	111.83
2	C	401	25L	NBF-CCB-NCQ	3.40	132.95	127.17
2	A	401	25L	NBF-CAT-NBC	-3.39	123.45	128.58
2	A	401	25L	C3'-C2'-C1'	3.36	107.82	101.46
2	A	401	25L	C4-N9-C8	3.36	109.26	105.74
2	B	401	25L	C5-N7-C8	3.35	108.71	103.45
2	B	401	25L	CAU-NBG-CCC	3.29	119.86	111.83
2	A	401	25L	CCC-NCR-CAX	3.29	109.19	105.74
2	D	401	25L	CBZ-NBJ-CAX	3.28	108.60	103.45
2	C	401	25L	NCR-CAX-NBJ	-3.27	109.29	113.94
2	A	401	25L	C2-N3-C4	3.27	119.81	111.83
2	D	401	25L	NCQ-CAW-NBI	-3.23	109.35	113.94
2	A	401	25L	C4-C5-N7	-3.23	106.88	110.58
2	B	401	25L	NCQ-CAW-NBI	-3.23	109.36	113.94
2	B	401	25L	CBY-NBI-CAW	3.23	108.52	103.45
2	A	401	25L	CBZ-NBJ-CAX	3.21	108.50	103.45
2	D	401	25L	NBF-CCB-NCQ	3.19	132.58	127.17
2	D	401	25L	CAT-NBF-CCB	3.16	119.54	111.83
2	B	401	25L	CCB-NCQ-CAW	3.14	109.04	105.74
2	D	401	25L	C4-N9-C8	3.08	108.98	105.74
2	D	401	25L	CCB-CBY-NBI	-3.08	107.06	110.58
2	A	401	25L	CCB-CBY-NBI	-3.07	107.07	110.58
2	B	401	25L	C4-N9-C8	3.07	108.96	105.74
2	B	401	25L	CCF-CCK-CCN	3.06	108.67	102.81
2	A	401	25L	CCB-NCQ-CAW	3.06	108.95	105.74
2	D	401	25L	C5-N7-C8	3.04	108.23	103.45
2	D	401	25L	NBG-CCC-NCR	3.01	132.29	127.17
2	D	401	25L	CBY-NBI-CAW	2.99	108.14	103.45
2	A	401	25L	CAU-NBG-CCC	2.97	119.08	111.83
2	D	401	25L	CCB-NCQ-CAW	2.93	108.82	105.74
2	B	401	25L	CBZ-NBJ-CAX	2.91	108.02	103.45
2	D	401	25L	C4-C5-N7	-2.88	107.29	110.58
2	C	401	25L	CBY-NBI-CAW	2.88	107.97	103.45
2	B	401	25L	CCB-CBY-NBI	-2.88	107.29	110.58
2	C	401	25L	CAT-NBF-CCB	2.87	118.84	111.83
2	A	401	25L	NCQ-CAW-NBI	-2.86	109.88	113.94
2	B	401	25L	C4-C5-N7	-2.85	107.32	110.58
2	A	401	25L	NBG-CCC-NCR	2.85	132.01	127.17
2	C	401	25L	CCC-NCR-CAX	2.85	108.73	105.74
2	A	401	25L	CCC-CBZ-NBJ	-2.84	107.33	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	401	25L	CBZ-NBJ-CAX	2.84	107.91	103.45
2	A	401	25L	NBF-CCB-NCQ	2.80	131.93	127.17
2	C	401	25L	CCC-CBZ-NBJ	-2.80	107.38	110.58
2	B	401	25L	C3'-C2'-C1'	2.80	106.75	101.46
2	D	401	25L	CCF-CCK-CCN	2.79	108.15	102.81
2	C	401	25L	N9-C8-N7	-2.74	110.06	113.94
2	D	401	25L	CCC-NCR-CAX	2.69	108.56	105.74
2	C	401	25L	C5-N7-C8	2.66	107.62	103.45
2	C	401	25L	CCB-CBY-NBI	-2.64	107.56	110.58
2	C	401	25L	C4-N9-C8	2.63	108.50	105.74
2	B	401	25L	CAT-NBF-CCB	2.60	118.17	111.83
2	D	401	25L	OBO-CCN-CCK	-2.58	102.14	106.59
2	A	401	25L	CBY-NBI-CAW	2.58	107.50	103.45
2	A	401	25L	OAM-PCT-OBT	2.58	114.24	107.27
2	A	401	25L	CCF-CCK-CCN	2.57	107.73	102.81
2	B	401	25L	OBO-CCN-CCK	-2.50	102.29	106.59
2	A	401	25L	OBT-PCW-OAH	-2.45	103.34	110.70
2	C	401	25L	OBO-CCN-CCK	-2.44	102.39	106.59
2	C	401	25L	OAM-PCT-OBT	2.42	113.80	107.27
2	C	401	25L	C4-C5-N7	-2.41	107.82	110.58
2	C	401	25L	CCF-CCK-CCN	2.40	107.40	102.81
2	A	401	25L	OBO-CCN-CCK	-2.30	102.62	106.59
2	A	401	25L	C6-C5-C4	2.30	120.32	117.18
2	A	401	25L	N6-C6-N1	2.26	123.40	118.38
2	B	401	25L	OBQ-PCV-OAG	-2.23	102.68	109.81
2	C	401	25L	CAT-NBC-CBV	2.22	122.38	118.73
2	D	401	25L	CBW-CBZ-NBJ	2.22	136.36	132.09
2	B	401	25L	CCC-CBZ-NBJ	-2.18	108.09	110.58
2	A	401	25L	CAT-NBF-CCB	2.18	117.16	111.83
2	B	401	25L	CCK-CCF-CCI	-2.18	97.30	101.99
2	D	401	25L	CBV-CBY-NBI	2.15	136.24	132.09
2	D	401	25L	C3'-C2'-C1'	2.09	105.42	101.46
2	A	401	25L	C5'-C4'-C3'	-2.08	107.71	115.21
2	C	401	25L	CCJ-OBP-CCO	-2.07	104.89	109.47
2	C	401	25L	OAO-PCS-OBS	2.04	111.49	104.64
2	C	401	25L	C3'-C2'-C1'	2.01	105.26	101.46

There are no chirality outliers.

All (34) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	25L	C3'-C4'-C5'-O5'

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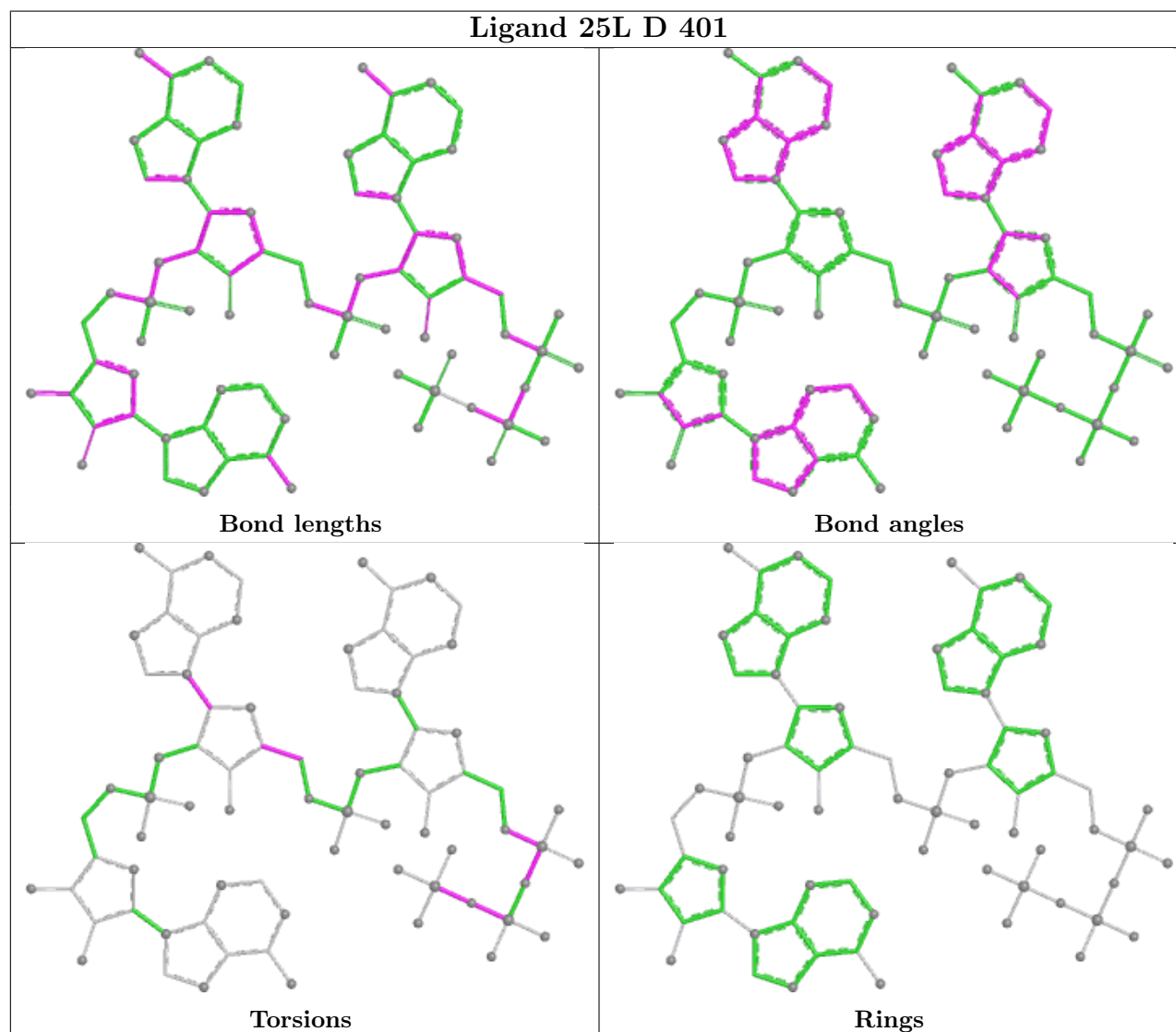
Mol	Chain	Res	Type	Atoms
2	A	401	25L	O4'-C4'-C5'-O5'
2	A	401	25L	PCW-OBS-PCS-OAO
2	A	401	25L	CCL-CCO-NCR-CAX
2	A	401	25L	CCL-CCO-NCR-CCC
2	B	401	25L	CAY-OBK-PCT-OBT
2	B	401	25L	CCL-CCO-NCR-CAX
2	B	401	25L	CCL-CCO-NCR-CCC
2	C	401	25L	CCL-CCO-NCR-CAX
2	D	401	25L	PCW-OBS-PCS-OAN
2	D	401	25L	PCW-OBS-PCS-OAO
2	D	401	25L	CCL-CCO-NCR-CAX
2	D	401	25L	CCL-CCO-NCR-CCC
2	C	401	25L	CCL-CCO-NCR-CCC
2	A	401	25L	PCW-OBT-PCT-OAE
2	A	401	25L	PCT-OBT-PCW-OAH
2	B	401	25L	CAY-OBK-PCT-OAM
2	C	401	25L	CBA-OBM-PCV-OAG
2	D	401	25L	CAY-OBK-PCT-OBT
2	A	401	25L	PCS-OBS-PCW-OAR
2	A	401	25L	PCW-OBT-PCT-OAM
2	D	401	25L	PCS-OBS-PCW-OAH
2	D	401	25L	PCS-OBS-PCW-OAR
2	D	401	25L	PCW-OBT-PCT-OAE
2	A	401	25L	PCW-OBS-PCS-OAD
2	A	401	25L	PCW-OBS-PCS-OAN
2	C	401	25L	OBM-CBA-CCJ-OBP
2	A	401	25L	CCL-OBK-PCU-OAF
2	A	401	25L	CCL-OBK-PCU-OAP
2	B	401	25L	PCS-OBS-PCW-OAR
2	C	401	25L	PCW-OBT-PCT-OAM
2	D	401	25L	OBM-CBA-CCJ-OBP
2	A	401	25L	PCS-OBS-PCW-OAH
2	D	401	25L	PCW-OBT-PCT-OAM

There are no ring outliers.

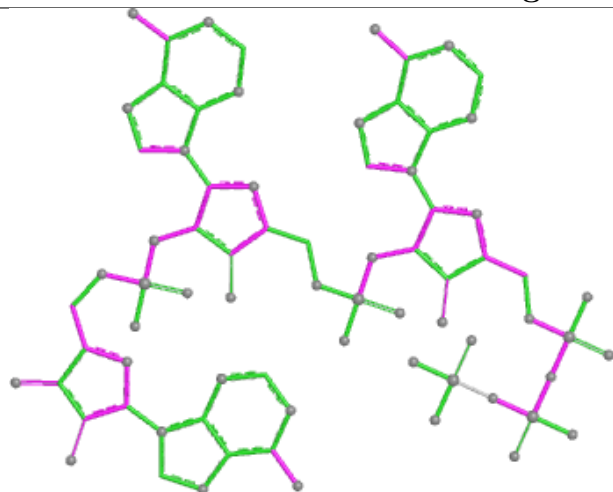
4 monomers are involved in 15 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	D	401	25L	2	0
2	C	401	25L	2	0
2	B	401	25L	1	0
2	A	401	25L	10	0

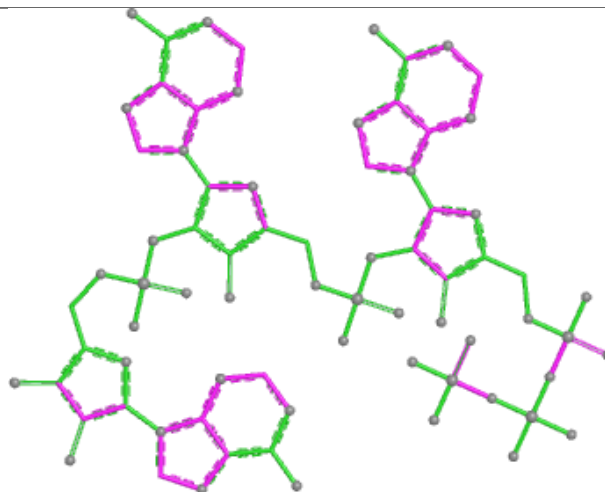
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included.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



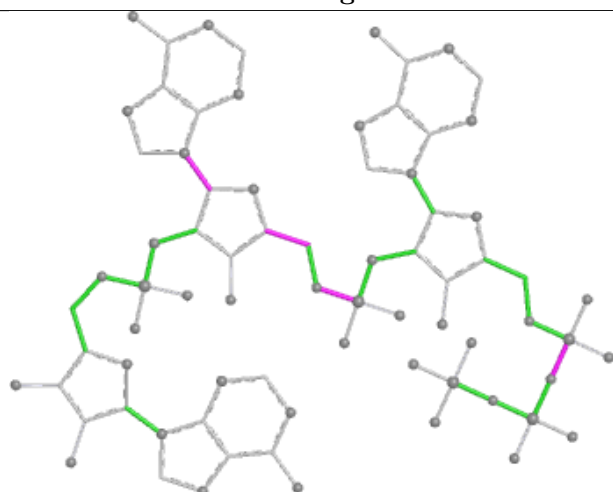
Ligand 25L C 401



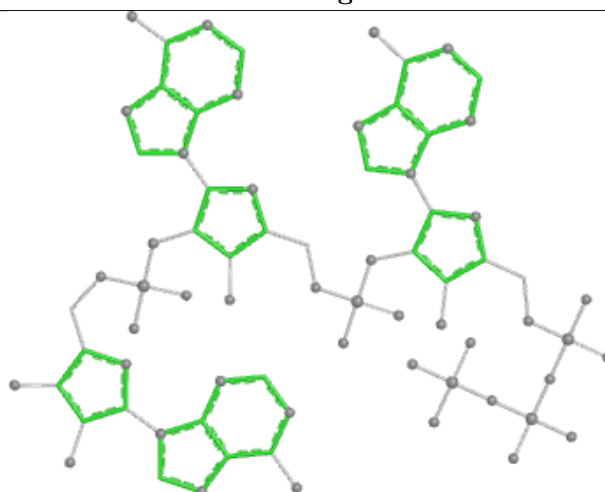
Bond lengths



Bond angles

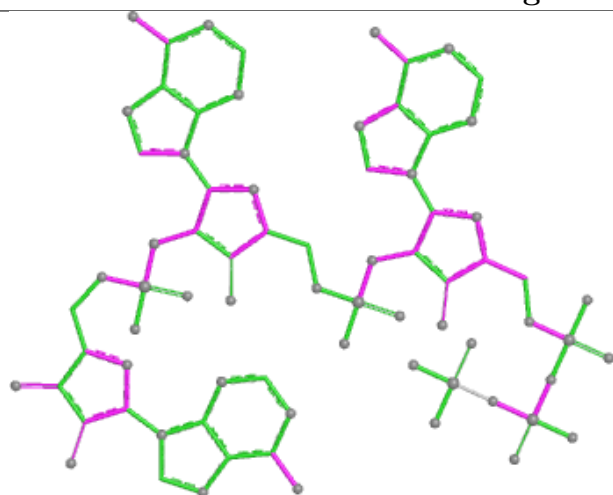


Torsions

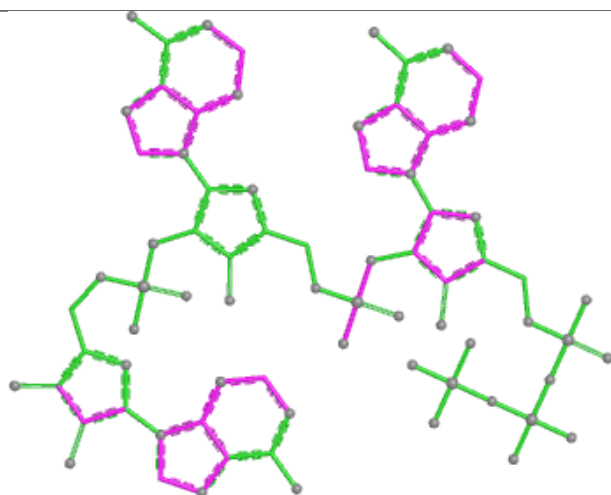


Rings

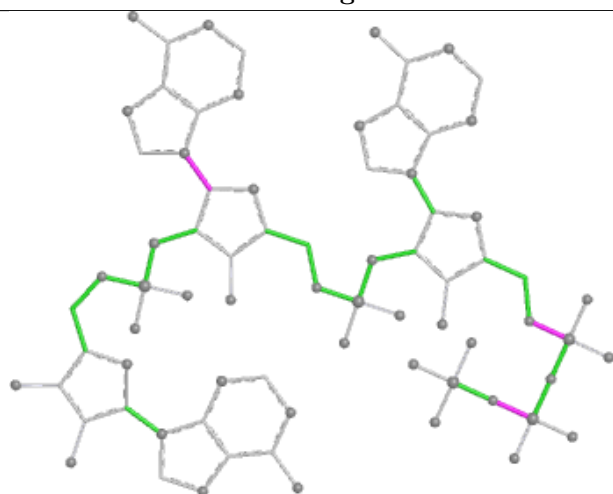
Ligand 25L B 401



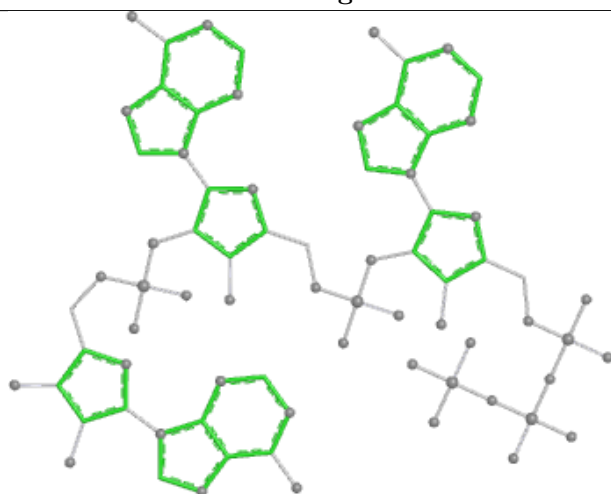
Bond lengths



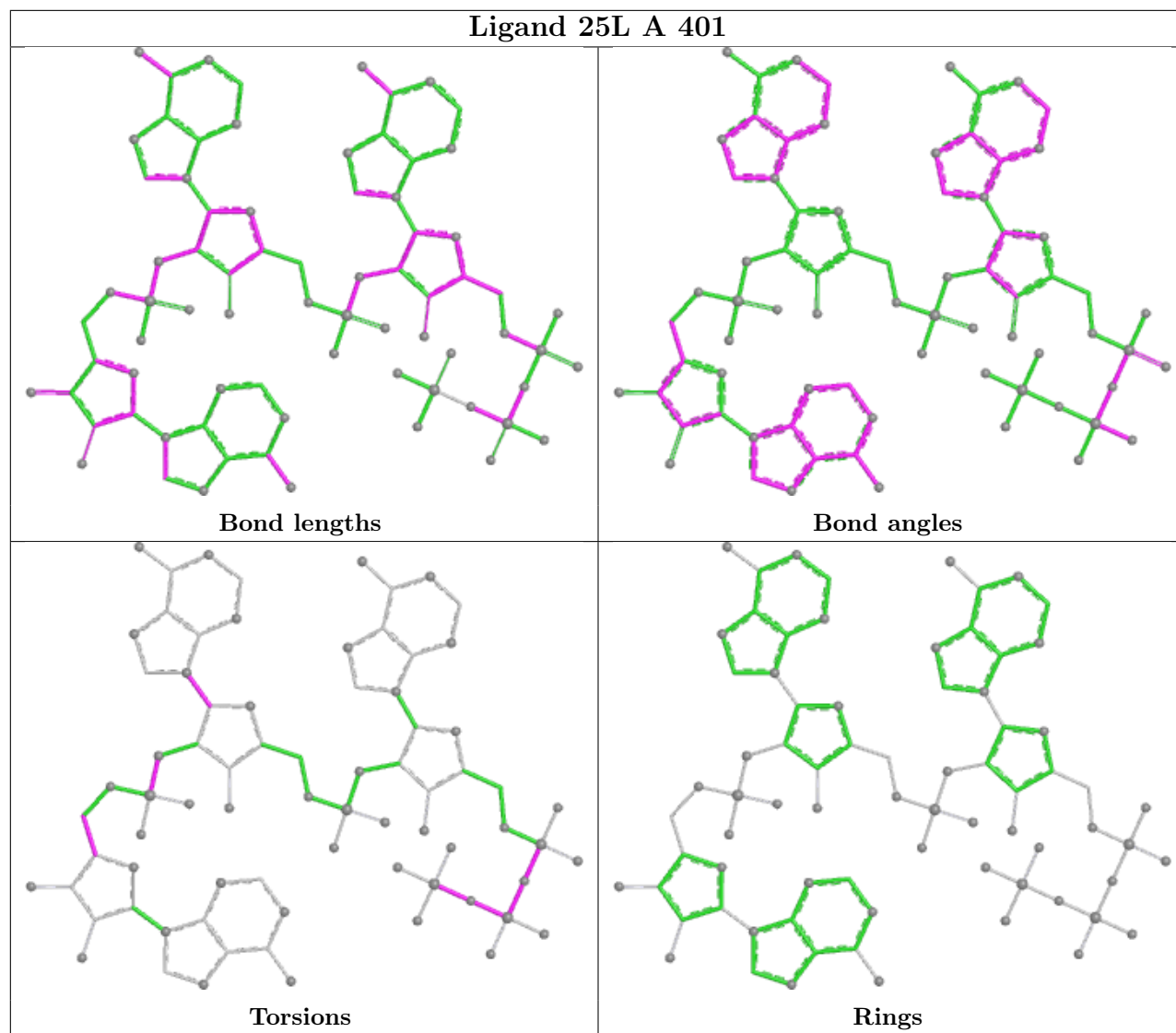
Bond angles



Torsions



Rings



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	278/301 (92%)	-0.16	8 (2%) 53 63	8, 20, 42, 68	3 (1%)
1	B	281/301 (93%)	0.12	14 (4%) 34 44	15, 24, 50, 103	0
1	C	279/301 (92%)	0.16	12 (4%) 40 50	15, 24, 49, 90	1 (0%)
1	D	279/301 (92%)	0.04	13 (4%) 36 46	9, 22, 46, 86	1 (0%)
All	All	1117/1204 (92%)	0.04	47 (4%) 40 51	8, 23, 49, 103	5 (0%)

All (47) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	258	PHE	10.0
1	B	258	PHE	8.6
1	C	325	ILE	8.0
1	D	258	PHE	6.5
1	D	245	THR	5.8
1	C	324	ILE	5.6
1	D	325	ILE	5.2
1	C	245	THR	5.1
1	B	256	GLY	5.0
1	D	257	ARG	5.0
1	D	36	LYS	4.6
1	D	149	PHE	4.6
1	A	244	LYS	4.3
1	A	86	CYS	3.9
1	B	257	ARG	3.8
1	D	324	ILE	3.4
1	B	35	SER	3.3
1	B	324	ILE	3.3
1	C	35	SER	3.0
1	A	325	ILE	2.9
1	B	55	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
1	C	149	PHE	2.7
1	B	36	LYS	2.7
1	B	264	ASP	2.7
1	A	326	GLU	2.7
1	D	265	ARG	2.6
1	B	297	ILE	2.6
1	D	106	LYS	2.5
1	D	259	GLU	2.5
1	A	324	ILE	2.5
1	A	260	LYS	2.5
1	B	260	LYS	2.5
1	B	150	ILE	2.5
1	A	35	SER	2.4
1	C	208	MET	2.5
1	D	260	LYS	2.4
1	C	323	ASP	2.4
1	C	126	ASN	2.3
1	C	260	LYS	2.3
1	B	101	GLU	2.3
1	C	71	LEU	2.2
1	B	325	ILE	2.2
1	D	261	GLU	2.2
1	A	150	ILE	2.1
1	C	106	LYS	2.1
1	B	326	GLU	2.1
1	D	150	ILE	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](#)

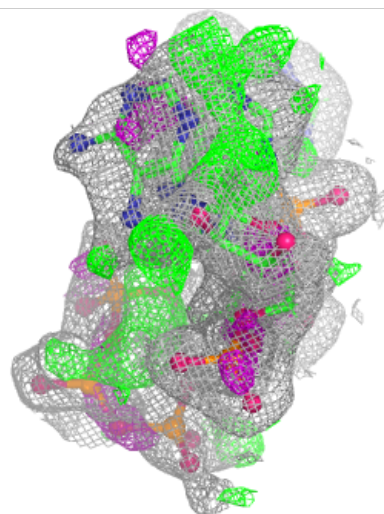
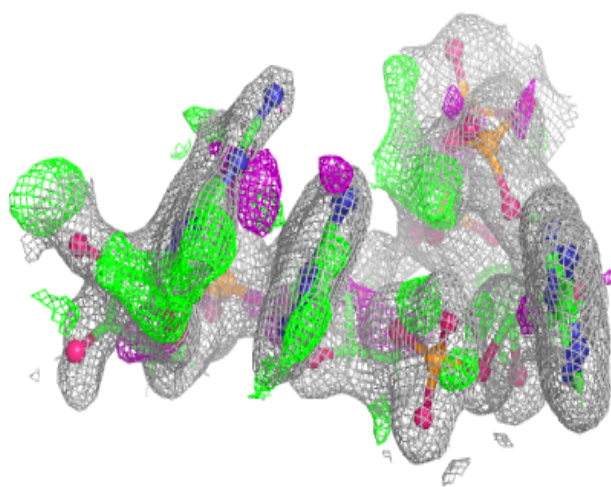
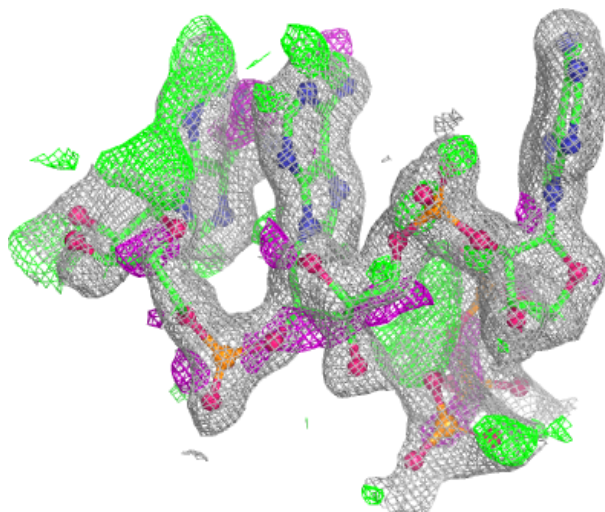
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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
2	25L	C	401	75/75	0.89	0.12	18,37,60,95	0
2	25L	D	401	75/75	0.92	0.11	17,38,59,107	0
2	25L	B	401	75/75	0.93	0.11	18,38,58,67	0
2	25L	A	401	75/75	0.94	0.11	15,33,55,81	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.

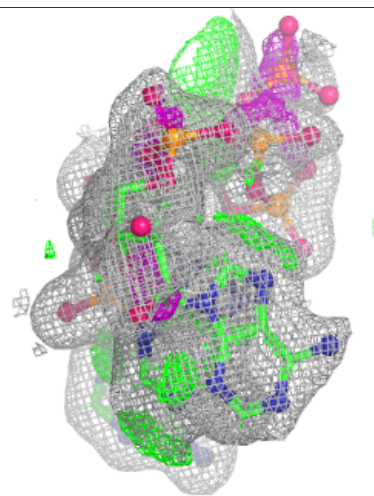
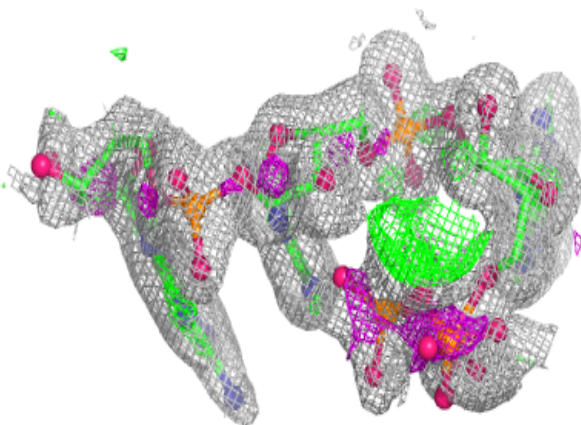
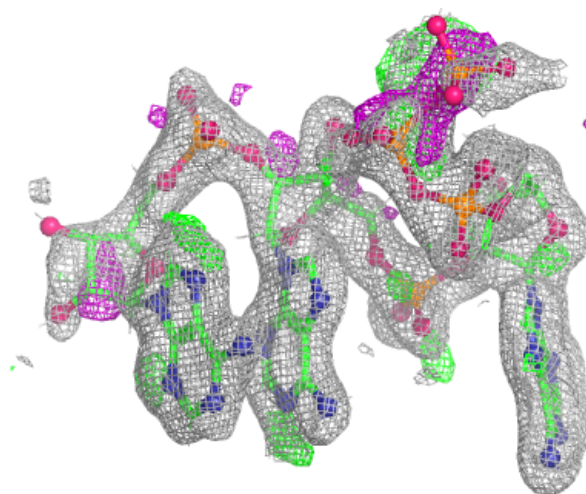
Electron density around 25L C 401:

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



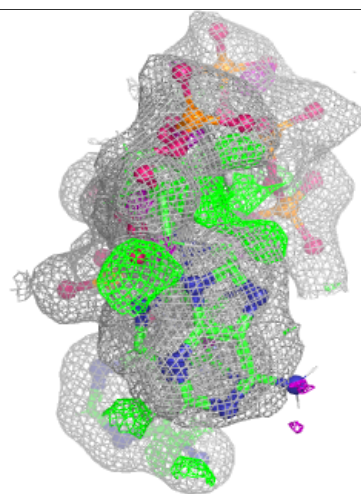
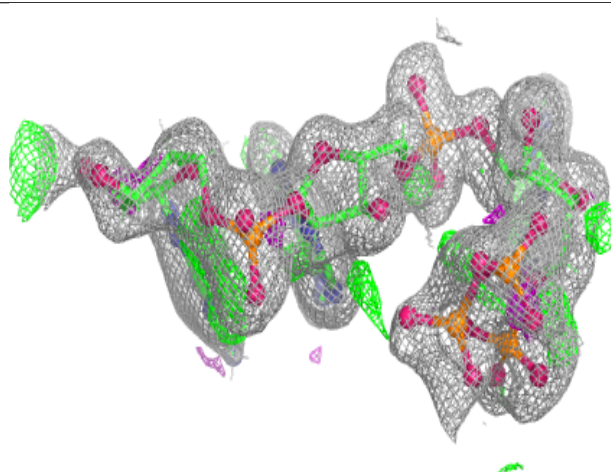
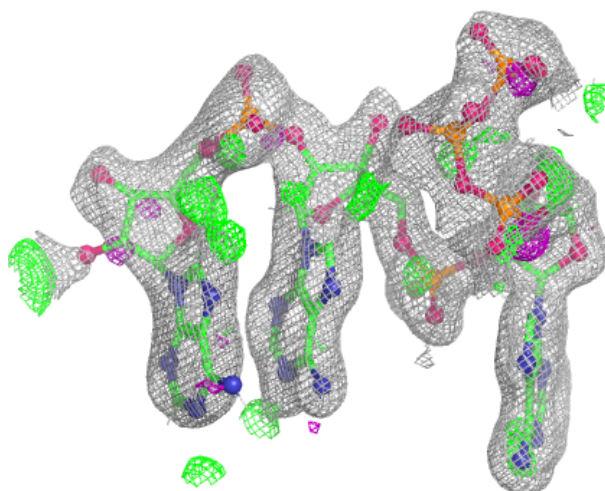
Electron density around 25L D 401:

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



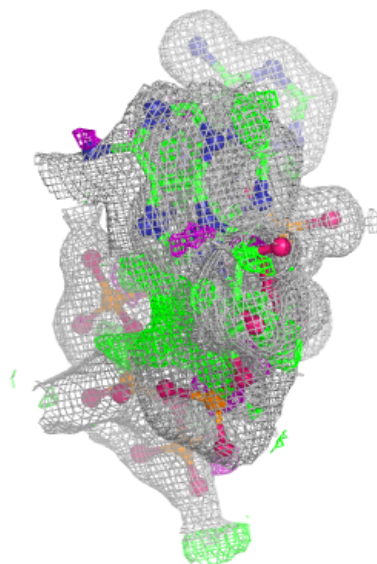
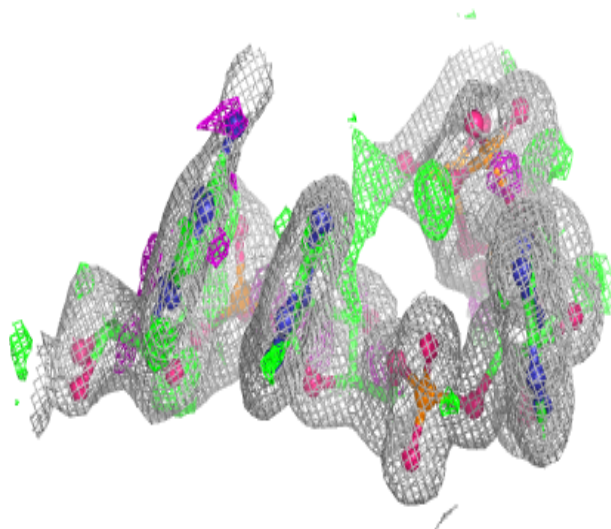
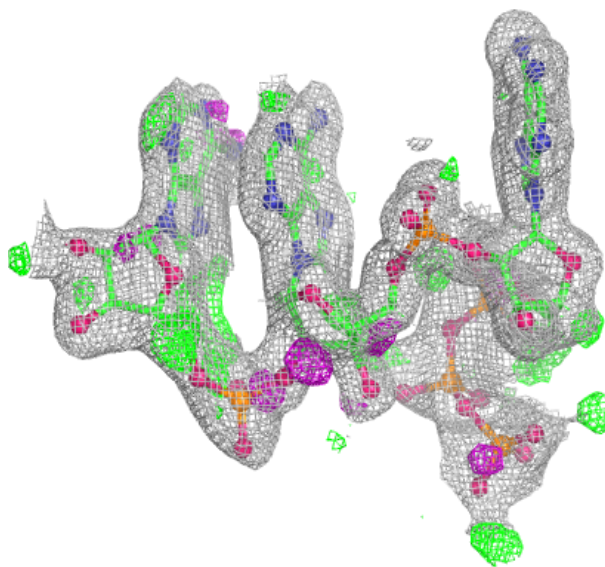
Electron density around 25L B 401:

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



Electron density around 25L A 401:

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



6.5 Other polymers ⓘ

There are no such residues in this entry.