W O R L D W I D E
wwPDB
PROTEIN DATA BANK

wwPDB X-ray Structure Validation Summary Report (i)

Dec 4, 2023 – 03:18 am GMT

|		
PDB ID	:	2VP6
Title	:	Structural Studies of Nucleoside Analog and Feedback Inhibitor Binding to Drosophila Melanogaster Multisubstrate Deoxyribonucleoside Kinase
Authors	:	Mikkelsen, N.E.; Munch-Petersen, B.; Eklund, H.
Deposited on	:	2008-02-26
Resolution	:	3.00 Å(reported)

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 3.00 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.

■ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution
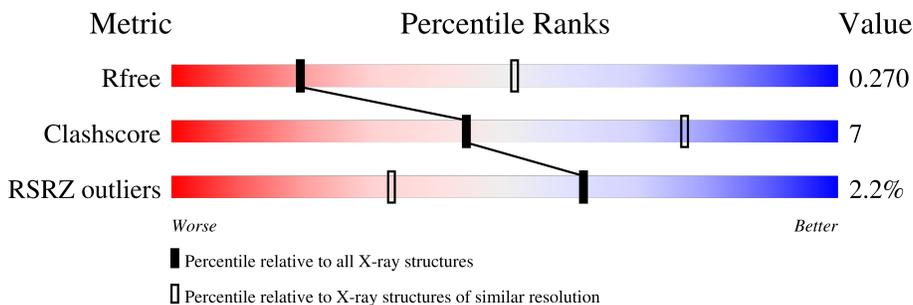
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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	A	230	.% 78% 8% 14%
1	B	230	.% 71% 12% 17%
1	C	230	3% 69% 17% 14%
1	D	230	2% 72% 11% 17%
1	E	230	71% 12% 17%
1	F	230	5% 71% 12% 17%
1	G	230	2% 68% 15% 17%

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Mol	Chain	Length	Quality of chain
1	H	230	74% 10% 17%

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:

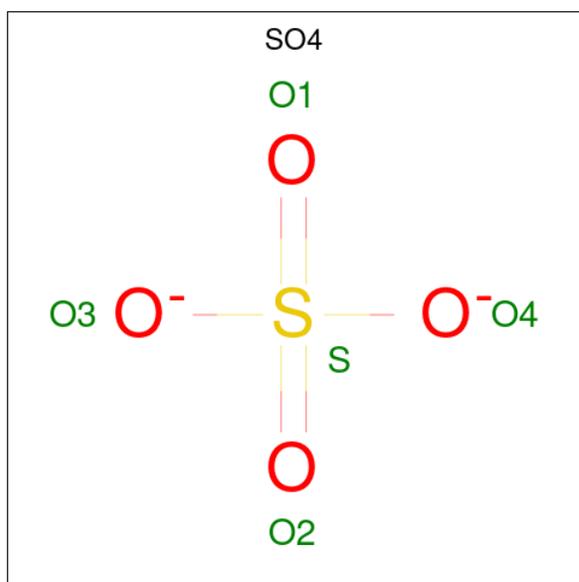| Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	SO4	B	1209	-	-	X	-
3	5FU	G	1210	-	-	X	-

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 12918 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 DEOXYNUCLEOSIDE KINASE.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	197	Total	C	N	O	S	0	0	0
			1640	1046	282	302	10			
1	B	192	Total	C	N	O	S	0	0	0
			1590	1018	267	295	10			
1	C	197	Total	C	N	O	S	0	0	0
			1612	1032	269	301	10			
1	D	191	Total	C	N	O	S	0	0	0
			1569	1007	259	293	10			
1	E	192	Total	C	N	O	S	0	0	0
			1578	1012	261	295	10			
1	F	192	Total	C	N	O	S	0	0	0
			1584	1015	264	295	10			
1	G	192	Total	C	N	O	S	0	0	0
			1574	1010	261	293	10			
1	H	192	Total	C	N	O	S	0	0	0
			1590	1018	267	295	10			

- Molecule 2 is SULFATE ION (three-letter code: SO4) (formula: O_4S).

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total 5	O 4	S 1	0	0
2	A	1	Total 5	O 4	S 1	0	0
2	B	1	Total 5	O 4	S 1	0	0
2	C	1	Total 5	O 4	S 1	0	0
2	D	1	Total 5	O 4	S 1	0	0
2	E	1	Total 5	O 4	S 1	0	0
2	F	1	Total 5	O 4	S 1	0	0
2	G	1	Total 5	O 4	S 1	0	0
2	H	1	Total 5	O 4	S 1	0	0

- Molecule 3 is 5-FLUORO-URIDINE-5'-MONOPHOSPHATE (three-letter code: 5FU) (formula: $C_9H_{12}FN_2O_9P$).

5FU
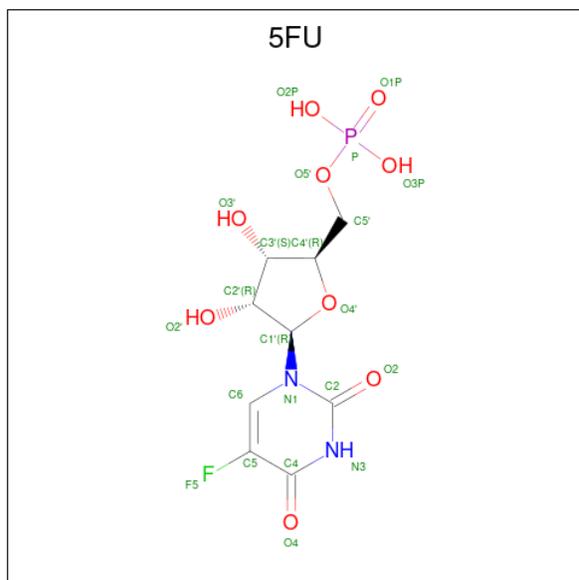
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	N	O	0	0
			17	9	1	2	5		
3	B	1	Total	C	F	N	O	0	0
			17	9	1	2	5		
3	C	1	Total	C	F	N	O	0	0
			17	9	1	2	5		
3	D	1	Total	C	F	N	O	0	0
			17	9	1	2	5		
3	E	1	Total	C	F	N	O	0	0
			17	9	1	2	5		
3	F	1	Total	C	F	N	O	0	0
			17	9	1	2	5		
3	G	1	Total	C	F	N	O	0	0
			17	9	1	2	5		
3	H	1	Total	C	F	N	O	0	0
			17	9	1	2	5		

3 Residue-property plots ⓘ

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

• Molecule 1: DEOXYNUCLEOSIDE KINASE

• Molecule 1: DEOXYNUCLEOSIDE KINASE

• Molecule 1: DEOXYNUCLEOSIDE KINASE

• Molecule 1: DEOXYNUCLEOSIDE KINASE

● Molecule 1: DEOXYNUCLEOSIDE KINASE

Chain E:

● Molecule 1: DEOXYNUCLEOSIDE KINASE

Chain F:
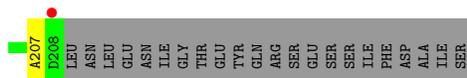

● Molecule 1: DEOXYNUCLEOSIDE KINASE

Chain G:

● Molecule 1: DEOXYNUCLEOSIDE KINASE

Chain H:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	70.35Å 70.71Å 225.40Å 90.00° 90.29° 90.00°	Depositor
Resolution (Å)	30.00 – 3.00 29.95 – 3.00	Depositor EDS
% Data completeness (in resolution range)	99.0 (30.00-3.00) 99.0 (29.95-3.00)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.33 (at 3.00Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.256 , 0.281 0.248 , 0.270	Depositor DCC
R_{free} test set	2232 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	70.4	Xtriage
Anisotropy	0.210	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 44.6	EDS
L-test for twinning[2]	$< |L| > = 0.48, < L^2 > = 0.31$	Xtriage
Estimated twinning fraction	0.002 for -k,-h,-l 0.009 for k,h,-l 0.034 for h,-k,-l	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	12918	wwPDB-VP
Average B, all atoms (Å^2)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.37% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: SO4, 5FU

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	0.68	0/1678	0.66	0/2268
1	B	0.60	0/1626	0.64	0/2198
1	C	0.60	0/1650	0.65	1/2235 (0.0%)
1	D	0.66	0/1605	0.63	0/2172
1	E	0.61	0/1614	0.63	0/2184
1	F	0.63	0/1620	0.64	0/2191
1	G	0.65	0/1610	0.65	0/2179
1	H	0.66	0/1626	0.62	0/2198
All	All	0.64	0/13029	0.64	1/17625 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	168	ALA	CB-CA-C	5.39	118.19	110.10

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	A	1640	0	1629	17	0
1	B	1590	0	1571	19	2

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	1612	0	1579	28	0
1	D	1569	0	1541	17	1
1	E	1578	0	1549	24	0
1	F	1584	0	1560	21	2
1	G	1574	0	1545	31	1
1	H	1590	0	1571	18	0
2	A	10	0	0	1	0
2	B	5	0	0	2	0
2	C	5	0	0	0	0
2	D	5	0	0	0	0
2	E	5	0	0	0	0
2	F	5	0	0	0	0
2	G	5	0	0	0	0
2	H	5	0	0	1	0
3	A	17	0	8	1	0
3	B	17	0	8	1	0
3	C	17	0	8	3	0
3	D	17	0	8	1	0
3	E	17	0	8	3	0
3	F	17	0	8	1	0
3	G	17	0	8	9	0
3	H	17	0	8	0	0
All	All	12918	0	12609	169	3

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 7.

The worst 5 of 169 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:G:57:TRP:HZ3	3:G:1210:5FU:H1'	1.28	0.97
1:G:57:TRP:CZ3	3:G:1210:5FU:H1'	2.17	0.78
1:E:52:GLU:OE1	3:E:1210:5FU:O5'	2.05	0.73
1:G:52:GLU:OE2	1:G:105:ARG:NH1	2.23	0.70
1:D:52:GLU:OE2	1:D:105:ARG:NH1	2.25	0.69

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:ASP:OD1	1:F:43:TYR:OH[2_546]	1.73	0.47
1:D:43:TYR:OH	1:G:46:ASP:OD1[2_746]	2.12	0.08
1:B:43:TYR:OH	1:F:46:ASP:OD1[2_546]	2.13	0.07

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains ⓘ

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

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 monosaccharides in this entry.

5.6 Ligand geometry ⓘ

17 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	5FU	F	1210	-	18,18,23	1.89	6 (33%)	26,26,35	2.92	11 (42%)
2	SO4	E	1209	-	4,4,4	0.41	0	6,6,6	0.81	0
3	5FU	A	1211	-	18,18,23	1.85	3 (16%)	26,26,35	3.45	10 (38%)
3	5FU	B	1210	-	18,18,23	1.54	2 (11%)	26,26,35	3.49	9 (34%)
2	SO4	A	1209	-	4,4,4	0.28	0	6,6,6	0.22	0
3	5FU	G	1210	-	18,18,23	1.95	5 (27%)	26,26,35	3.42	11 (42%)
2	SO4	B	1209	-	4,4,4	0.15	0	6,6,6	1.01	0
3	5FU	H	1210	-	18,18,23	1.53	2 (11%)	26,26,35	4.04	15 (57%)
2	SO4	A	1210	-	4,4,4	0.17	0	6,6,6	0.29	0
3	5FU	D	1210	-	18,18,23	1.92	5 (27%)	26,26,35	3.05	9 (34%)
2	SO4	C	1209	-	4,4,4	0.15	0	6,6,6	0.39	0
2	SO4	H	1209	-	4,4,4	0.53	0	6,6,6	0.64	0
3	5FU	E	1210	-	18,18,23	1.82	4 (22%)	26,26,35	2.41	8 (30%)
2	SO4	G	1209	-	4,4,4	0.28	0	6,6,6	0.44	0
2	SO4	F	1209	-	4,4,4	0.19	0	6,6,6	0.80	0
2	SO4	D	1209	-	4,4,4	0.21	0	6,6,6	0.66	0
3	5FU	C	1210	-	18,18,23	1.89	5 (27%)	26,26,35	2.80	9 (34%)

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	5FU	F	1210	-	-	2/6/18/26	0/2/2/2
3	5FU	B	1210	-	-	0/6/18/26	0/2/2/2
3	5FU	A	1211	-	-	2/6/18/26	0/2/2/2
3	5FU	G	1210	-	-	2/6/18/26	0/2/2/2
3	5FU	H	1210	-	-	2/6/18/26	0/2/2/2
3	5FU	D	1210	-	-	0/6/18/26	0/2/2/2
3	5FU	E	1210	-	-	0/6/18/26	0/2/2/2
3	5FU	C	1210	-	-	2/6/18/26	0/2/2/2

The worst 5 of 32 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1211	5FU	C6-C5	5.34	1.41	1.33
3	D	1210	5FU	C6-C5	5.04	1.40	1.33
3	B	1210	5FU	C6-C5	4.66	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	1210	5FU	C6-C5	4.56	1.40	1.33
3	C	1210	5FU	C6-C5	4.53	1.39	1.33

The worst 5 of 82 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	H	1210	5FU	C5-C4-N3	11.19	123.58	112.56
3	B	1210	5FU	O4-C4-C5	-10.43	116.31	125.72
3	A	1211	5FU	O4-C4-C5	-8.87	117.72	125.72
3	D	1210	5FU	O4-C4-C5	-8.69	117.88	125.72
3	G	1210	5FU	C5-C4-N3	8.16	120.59	112.56

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	G	1210	5FU	C2'-C1'-N1-C2
3	G	1210	5FU	C2'-C1'-N1-C6
3	C	1210	5FU	O4'-C4'-C5'-O5'
3	F	1210	5FU	O4'-C4'-C5'-O5'
3	C	1210	5FU	C3'-C4'-C5'-O5'

There are no ring outliers.

10 monomers are involved in 23 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	F	1210	5FU	1	0
3	A	1211	5FU	1	0
3	B	1210	5FU	1	0
2	A	1209	SO4	1	0
3	G	1210	5FU	9	0
2	B	1209	SO4	2	0
3	D	1210	5FU	1	0
2	H	1209	SO4	1	0
3	E	1210	5FU	3	0
3	C	1210	5FU	3	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 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 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 5FU F 1210

Bond lengths

Bond angles

Torsions

Rings

Ligand 5FU A 1211

Bond lengths

Bond angles

Torsions

Rings

Ligand 5FU B 1210

Bond lengths

Bond angles

Torsions

Rings

Ligand 5FU G 1210

Bond lengths

Bond angles

Torsions

Rings

Ligand 5FU H 1210

Bond lengths

Bond angles

Torsions

Rings

Ligand 5FU D 1210

Bond lengths

Bond angles

Torsions

Rings

Ligand 5FU E 1210

Bond lengths

Bond angles

Torsions

Rings

Ligand 5FU C 1210

Bond lengths

Bond angles

Torsions

Rings

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

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	197/230 (85%)	0.12	2 (1%)	82	59	42, 60, 84, 102	0
1	B	192/230 (83%)	-0.11	3 (1%)	72	44	42, 62, 84, 102	0
1	C	197/230 (85%)	-0.01	7 (3%)	42	17	43, 62, 87, 102	0
1	D	191/230 (83%)	0.06	4 (2%)	63	34	43, 62, 84, 102	0
1	E	192/230 (83%)	-0.11	1 (0%)	91	75	43, 62, 84, 102	0
1	F	192/230 (83%)	0.08	11 (5%)	23	8	43, 62, 84, 102	0
1	G	192/230 (83%)	0.03	5 (2%)	56	27	43, 62, 84, 102	0
1	H	192/230 (83%)	0.04	1 (0%)	91	75	42, 60, 84, 102	0
All	All	1545/1840 (83%)	0.01	34 (2%)	62	33	42, 62, 84, 102	0

The worst 5 of 34 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	207	ALA	5.6
1	A	208	ASP	4.6
1	C	208	ASP	3.7
1	B	17	GLY	3.3
1	C	207	ALA	3.1

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

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

6.3   Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
3	5FU	G	1210	17/22	0.82	0.38	82,84,88,90	0
3	5FU	C	1210	17/22	0.94	0.43	62,65,66,66	0
3	5FU	D	1210	17/22	0.95	0.21	53,58,60,62	0
2	SO4	F	1209	5/5	0.95	0.12	55,58,60,62	0
3	5FU	B	1210	17/22	0.96	0.18	46,48,55,57	0
2	SO4	D	1209	5/5	0.96	0.14	60,61,63,64	0
2	SO4	G	1209	5/5	0.96	0.15	67,68,70,70	0
3	5FU	E	1210	17/22	0.96	0.22	43,44,51,51	0
3	5FU	F	1210	17/22	0.96	0.24	47,50,57,58	0
3	5FU	A	1211	17/22	0.96	0.22	35,36,45,45	0
3	5FU	H	1210	17/22	0.96	0.23	26,31,39,43	0
2	SO4	A	1210	5/5	0.97	0.24	54,56,56,59	0
2	SO4	E	1209	5/5	0.97	0.17	58,58,62,63	0
2	SO4	A	1209	5/5	0.98	0.10	29,30,32,33	0
2	SO4	B	1209	5/5	0.98	0.11	41,43,45,46	0
2	SO4	C	1209	5/5	0.98	0.10	57,58,59,59	0
2	SO4	H	1209	5/5	0.99	0.10	16,19,24,25	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.
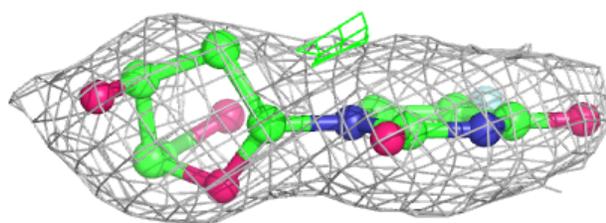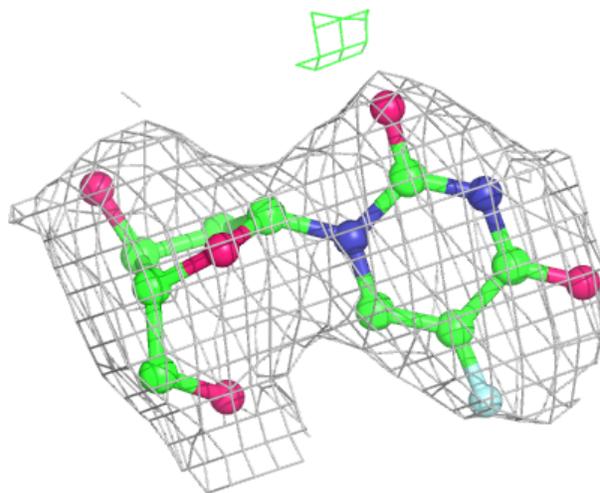
Electron density around 5FU G 1210:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
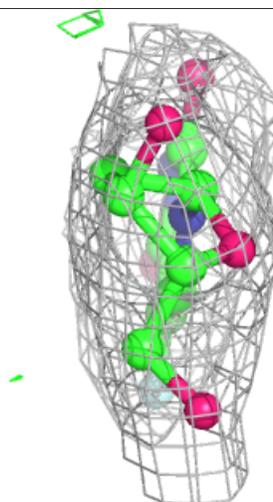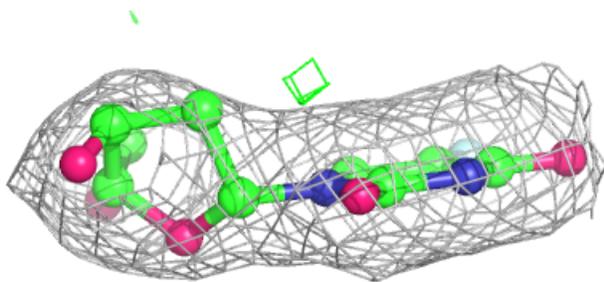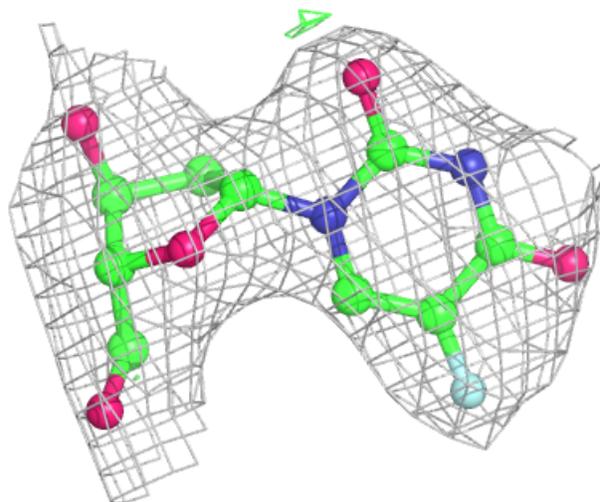and green (positive)
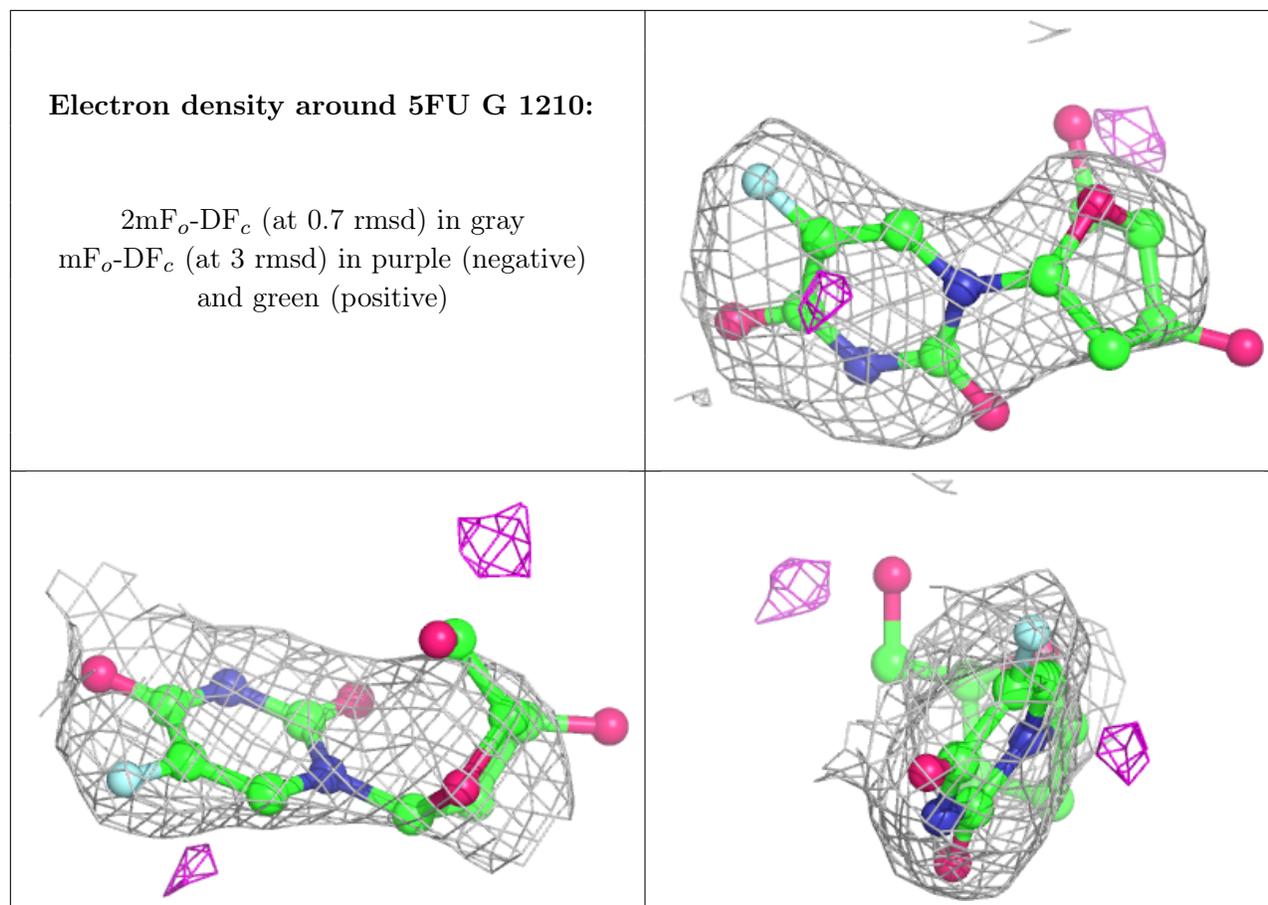
Electron density around 5FU C 1210:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
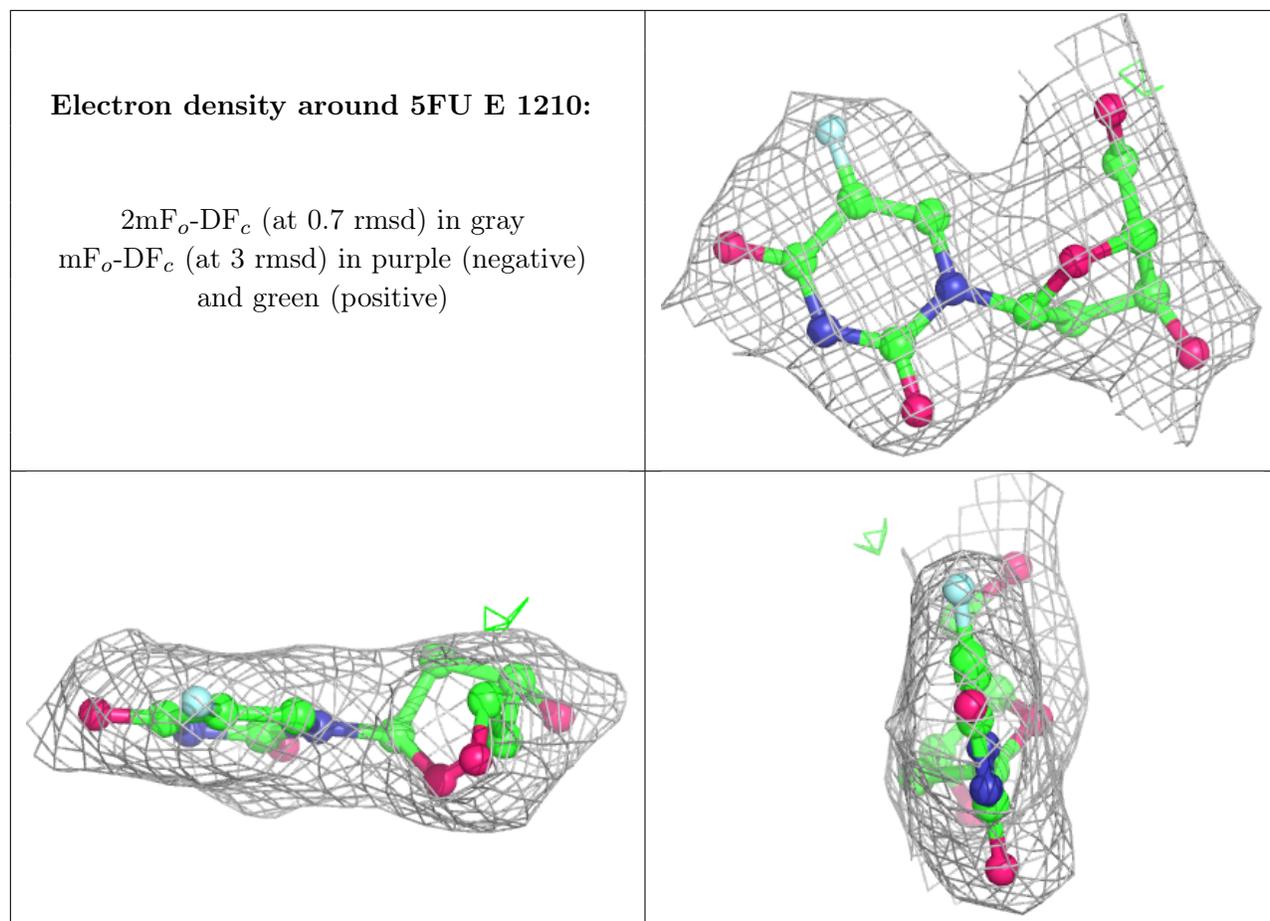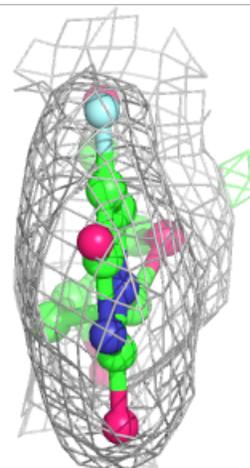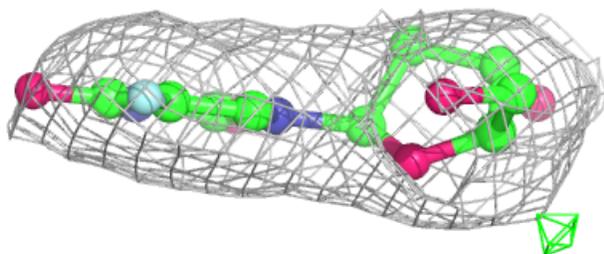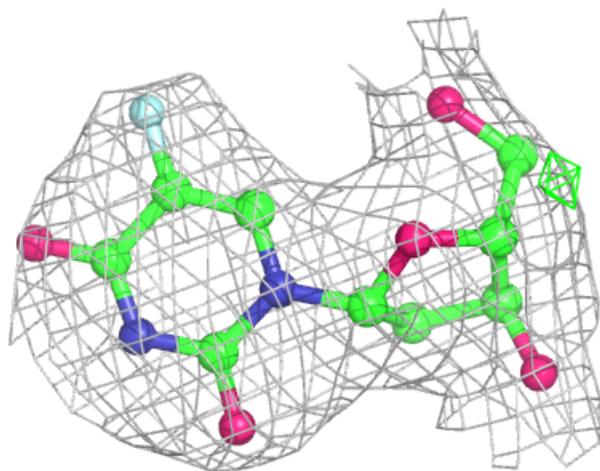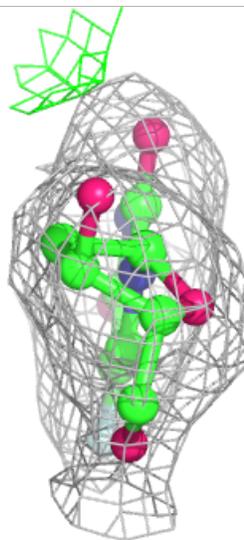and green (positive)
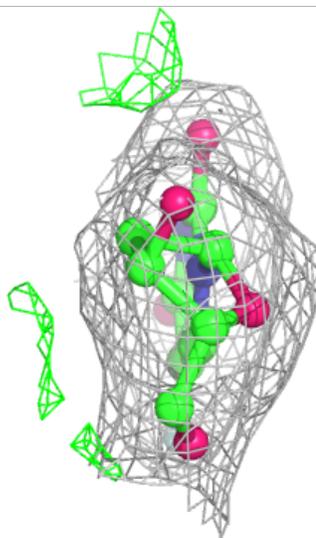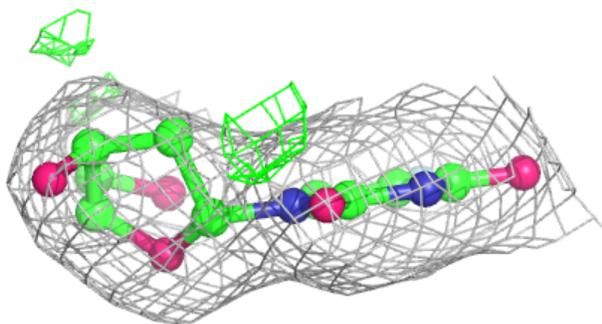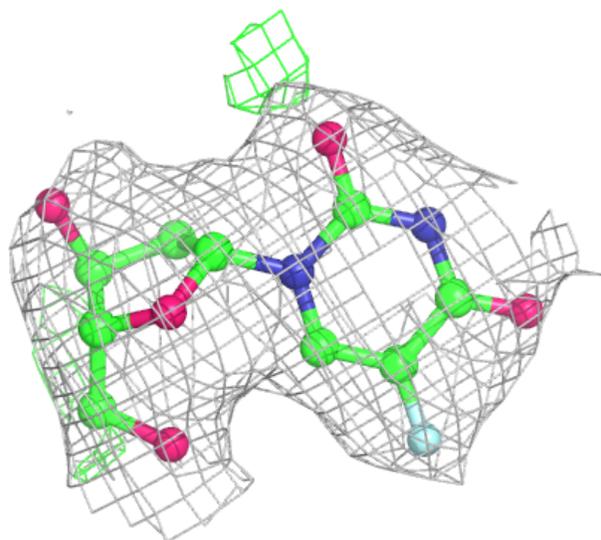
Electron density around 5FU D 1210:

$2mF_o\text{-}DF_c$ (at 0.7 rmsd) in gray
$mF_o\text{-}DF_c$ (at 3 rmsd) in purple (negative)
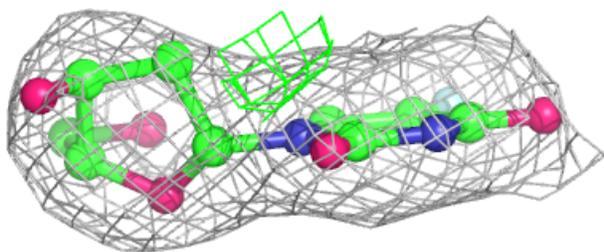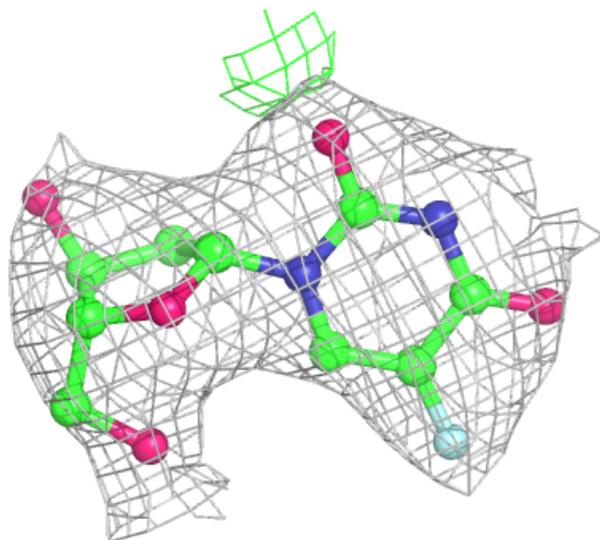and green (positive)
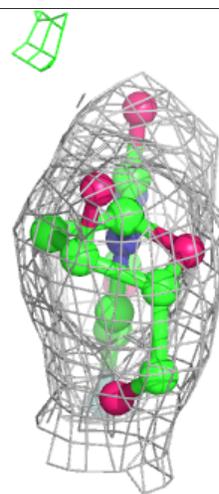
Electron density around 5FU B 1210:

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

Electron density around 5FU E 1210:

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

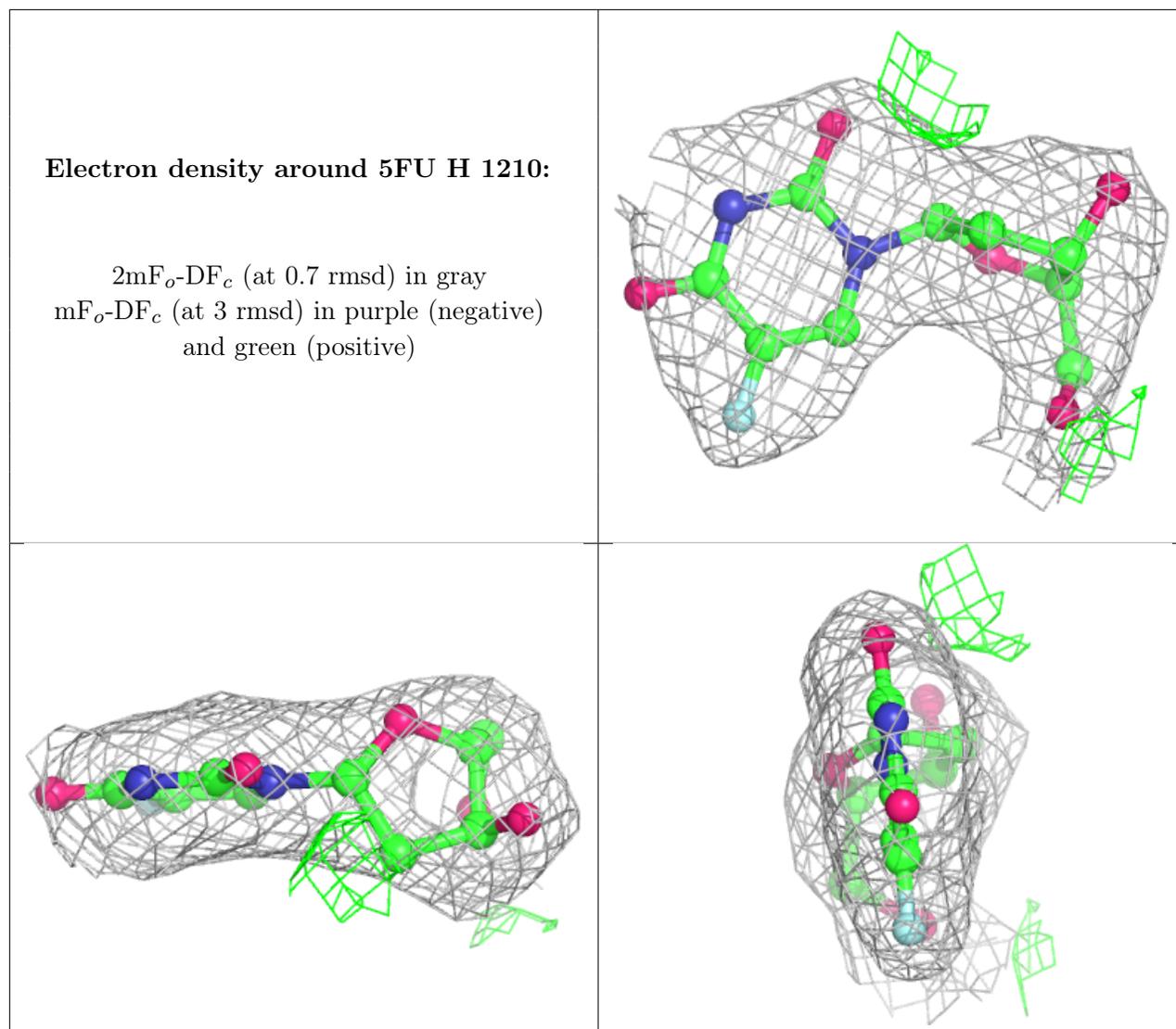**Electron density around 5FU F 1210:**

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

Electron density around 5FU A 1211:

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

Electron density around 5FU H 1210:

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

6.5 Other polymers ⓘ

There are no such residues in this entry.