



wwPDB X-ray Structure Validation Summary Report ⓘ

May 13, 2020 – 02:20 am BST

PDB ID : 5OFI
Title : PIIA lectin, Fluorophore carbohydrate complex
Authors : Koehnke, J.; Sikandar, A.
Deposited on : 2017-07-11
Resolution : 2.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

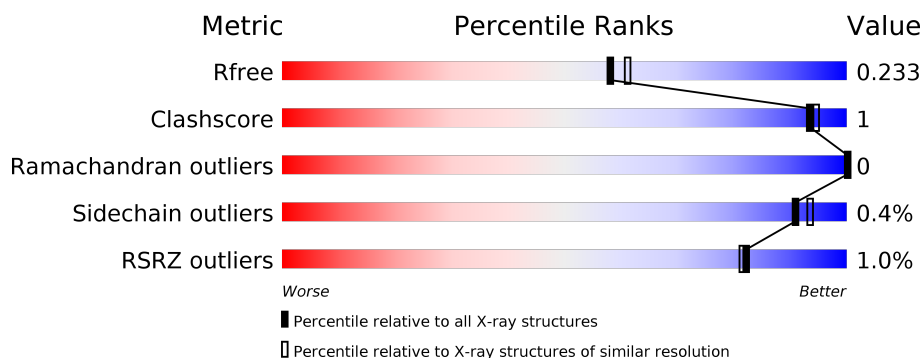
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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.



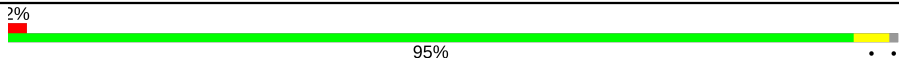
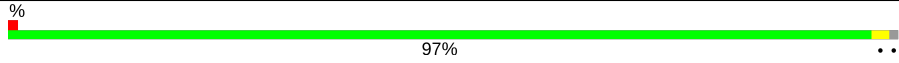
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	8085 (2.00-2.00)
Clashscore	141614	9178 (2.00-2.00)
Ramachandran outliers	138981	9054 (2.00-2.00)
Sidechain outliers	138945	9053 (2.00-2.00)
RSRZ outliers	127900	7900 (2.00-2.00)

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 on 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	122	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> % 96% .. </div> </div>
1	B	122	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 2% 95% .. </div> </div>
1	C	122	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> % 97% .. </div> </div>
1	D	122	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> % 96% .. </div> </div>
1	E	122	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 2% 95% .. </div> </div>
1	F	122	<div> <div style="width: 100%; height: 10px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> 97% .. </div> </div>

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Mol	Chain	Length	Quality of chain
1	G	122	
1	H	122	

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	9TQ	B	202	X	-	-	-
3	9TQ	D	202	X	-	-	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 8329 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 PIIA.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
1	C	121	Total	C	N	O	0	0	0
			908	577	154	177			
1	A	121	Total	C	N	O	0	0	0
			908	577	154	177			
1	B	121	Total	C	N	O	0	0	0
			908	577	154	177			
1	D	121	Total	C	N	O	0	0	0
			908	577	154	177			
1	E	121	Total	C	N	O	0	0	0
			908	577	154	177			
1	F	121	Total	C	N	O	0	0	0
			908	577	154	177			
1	G	121	Total	C	N	O	0	0	0
			908	577	154	177			
1	H	121	Total	C	N	O	0	0	0
			908	577	154	177			

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

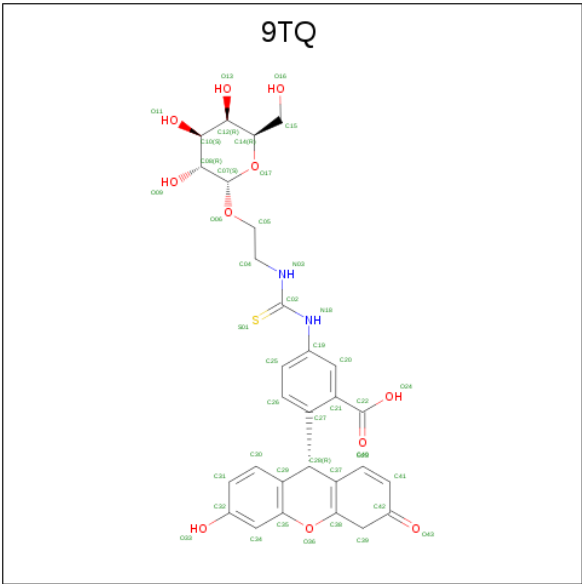
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	G	1	Total	Ca	0	0
			1	1		
2	D	1	Total	Ca	0	0
			1	1		
2	E	1	Total	Ca	0	0
			1	1		
2	H	1	Total	Ca	0	0
			1	1		
2	B	1	Total	Ca	0	0
			1	1		
2	C	1	Total	Ca	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Ca	0	0
			1	1		
2	F	1	Total	Ca	0	0
			1	1		

- Molecule 3 is 5-[2-[(2 {S},3 {R},4 {S},5 {R},6 {R})-6-(hydroxymethyl)-3,4,5-tris(oxidanyl)oxan-2-yl]oxyethylcarbamothioylamino]-2-(6-oxidanyl-3-oxidanylidene-4,9-dihydroxanthene-9-yl)benzoic acid (three-letter code: 9TQ) (formula: C₂₉H₃₀N₂O₁₁S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	C	1	Total	C	N	O	S	0	0
			43	29	2	11	1		
3	A	1	Total	C	N	O	S	0	0
			43	29	2	11	1		
3	B	1	Total	C	N	O	S	0	0
			43	29	2	11	1		
3	D	1	Total	C	N	O	S	0	0
			43	29	2	11	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	C	136	Total	O	0	0
			136	136		
4	A	110	Total	O	0	0
			110	110		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	141	Total 141	O 141	0	0
4	D	132	Total 132	O 132	0	0
4	E	99	Total 99	O 99	0	0
4	F	121	Total 121	O 121	0	0
4	G	70	Total 70	O 70	0	0
4	H	76	Total 76	O 76	0	0

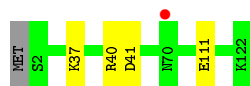
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: PIIA



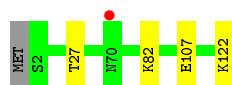
- Molecule 1: PIIA



- Molecule 1: PIIA



- Molecule 1: PIIA



- Molecule 1: PIIA



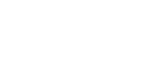
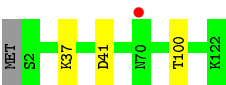
- Molecule 1: PIIA



● Molecule 1: PIIA



● Molecule 1: PIIA



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	48.56Å 134.33Å 153.04Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.67 – 2.00 45.67 – 2.00	Depositor EDS
% Data completeness (in resolution range)	95.9 (45.67-2.00) 96.0 (45.67-2.00)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.62 (at 2.00Å)	Xtriage
Refinement program	PHENIX (1.11.1 _2575: ???)	Depositor
R, R_{free}	0.176 , 0.226 0.183 , 0.233	Depositor DCC
R_{free} test set	3341 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	23.5	Xtriage
Anisotropy	0.729	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 45.7	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	0.96	EDS
Total number of atoms	8329	wwPDB-VP
Average B, all atoms (Å ²)	32.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 13.54% 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: CA, 9TQ

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	0.26	0/930	0.49	0/1268
1	B	0.27	0/930	0.49	0/1268
1	C	0.27	0/930	0.49	0/1268
1	D	0.27	0/930	0.49	0/1268
1	E	0.26	0/930	0.47	0/1268
1	F	0.26	0/930	0.48	0/1268
1	G	0.26	0/930	0.48	0/1268
1	H	0.26	0/930	0.48	0/1268
All	All	0.26	0/7440	0.48	0/10144

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	908	0	894	3	0
1	B	908	0	894	3	0
1	C	908	0	894	2	0
1	D	908	0	894	1	0
1	E	908	0	894	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	F	908	0	894	2	0
1	G	908	0	894	3	0
1	H	908	0	894	2	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
2	E	1	0	0	0	0
2	F	1	0	0	0	0
2	G	1	0	0	0	0
2	H	1	0	0	0	0
3	A	43	0	0	0	1
3	B	43	0	0	0	0
3	C	43	0	0	1	1
3	D	43	0	0	0	0
4	A	110	0	0	2	0
4	B	141	0	0	1	0
4	C	136	0	0	1	0
4	D	132	0	0	0	1
4	E	99	0	0	1	0
4	F	121	0	0	1	1
4	G	70	0	0	1	0
4	H	76	0	0	0	0
All	All	8329	0	7152	20	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 1.

The worst 5 of 20 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:40:ARG:NH1	4:A:302:HOH:O	2.13	0.80
1:A:37:LYS:NZ	1:A:41:ASP:O	2.18	0.75
1:B:70:ASN:ND2	4:B:301:HOH:O	2.19	0.74
1:C:70:ASN:ND2	4:C:301:HOH:O	2.17	0.73
1:C:37:LYS:NZ	1:C:41:ASP:O	2.21	0.72

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)
4:D:362:HOH:O	4:F:360:HOH:O[2_654]	2.09	0.11
3:C:202:9TQ:O33	3:A:202:9TQ:O33[3_554]	2.13	0.07

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	119/122 (98%)	116 (98%)	3 (2%)	0	100	100
1	B	119/122 (98%)	115 (97%)	4 (3%)	0	100	100
1	C	119/122 (98%)	117 (98%)	2 (2%)	0	100	100
1	D	119/122 (98%)	117 (98%)	2 (2%)	0	100	100
1	E	119/122 (98%)	116 (98%)	3 (2%)	0	100	100
1	F	119/122 (98%)	117 (98%)	2 (2%)	0	100	100
1	G	119/122 (98%)	118 (99%)	1 (1%)	0	100	100
1	H	119/122 (98%)	117 (98%)	2 (2%)	0	100	100
All	All	952/976 (98%)	933 (98%)	19 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	99/100 (99%)	99 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	99/100 (99%)	98 (99%)	1 (1%)	76	81
1	C	99/100 (99%)	99 (100%)	0	100	100
1	D	99/100 (99%)	97 (98%)	2 (2%)	55	58
1	E	99/100 (99%)	99 (100%)	0	100	100
1	F	99/100 (99%)	99 (100%)	0	100	100
1	G	99/100 (99%)	99 (100%)	0	100	100
1	H	99/100 (99%)	99 (100%)	0	100	100
All	All	792/800 (99%)	789 (100%)	3 (0%)	91	93

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	7	SER
1	D	107	GLU
1	D	122	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 12 ligands modelled in this entry, 8 are monoatomic - leaving 4 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and

the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	9TQ	D	202	2	44,47,47	3.24	16 (36%)	58,68,68	3.21	24 (41%)
3	9TQ	C	202	2	44,47,47	3.36	16 (36%)	58,68,68	3.24	25 (43%)
3	9TQ	B	202	2	44,47,47	3.21	14 (31%)	58,68,68	3.11	22 (37%)
3	9TQ	A	202	2	44,47,47	3.27	13 (29%)	58,68,68	3.15	22 (37%)

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	9TQ	D	202	2	1/1/11/15	4/17/66/66	0/5/5/5
3	9TQ	C	202	2	-	4/17/66/66	0/5/5/5
3	9TQ	B	202	2	1/1/11/15	6/17/66/66	0/5/5/5
3	9TQ	A	202	2	-	4/17/66/66	0/5/5/5

The worst 5 of 59 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	202	9TQ	C37-C38	11.66	1.50	1.34
3	B	202	9TQ	C37-C38	11.45	1.50	1.34
3	A	202	9TQ	C37-C38	11.10	1.49	1.34
3	C	202	9TQ	C21-C22	10.76	1.57	1.47
3	A	202	9TQ	C21-C22	10.57	1.57	1.47

The worst 5 of 93 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	202	9TQ	O36-C38-C39	12.32	123.91	111.22
3	A	202	9TQ	O36-C38-C39	12.07	123.65	111.22
3	B	202	9TQ	O36-C38-C39	11.08	122.63	111.22
3	D	202	9TQ	O36-C38-C37	-10.97	115.22	122.72
3	C	202	9TQ	O36-C38-C39	10.84	122.39	111.22

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	D	202	9TQ	C28
3	B	202	9TQ	C28

5 of 18 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	202	9TQ	C05-C04-N03-C02
3	D	202	9TQ	N03-C04-C05-O06
3	D	202	9TQ	C05-C04-N03-C02
3	B	202	9TQ	C21-C27-C28-C29
3	B	202	9TQ	C26-C27-C28-C29

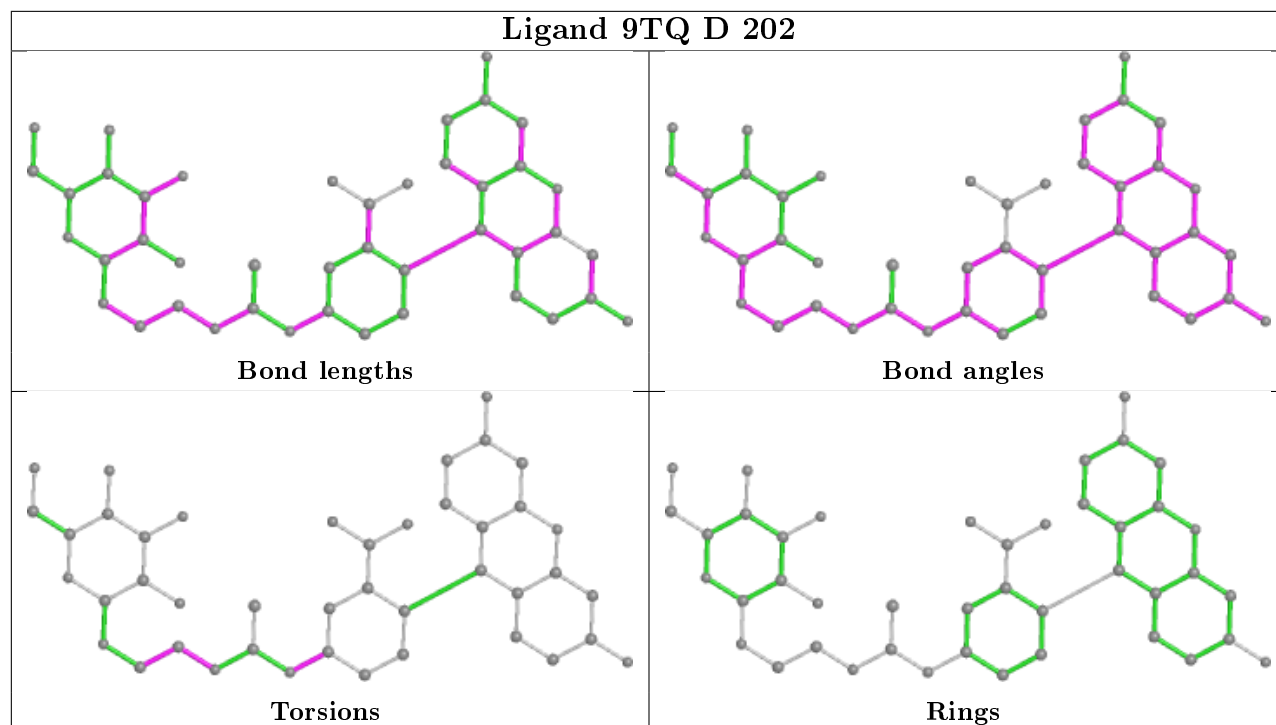
There are no ring outliers.

2 monomers are involved in 2 short contacts:

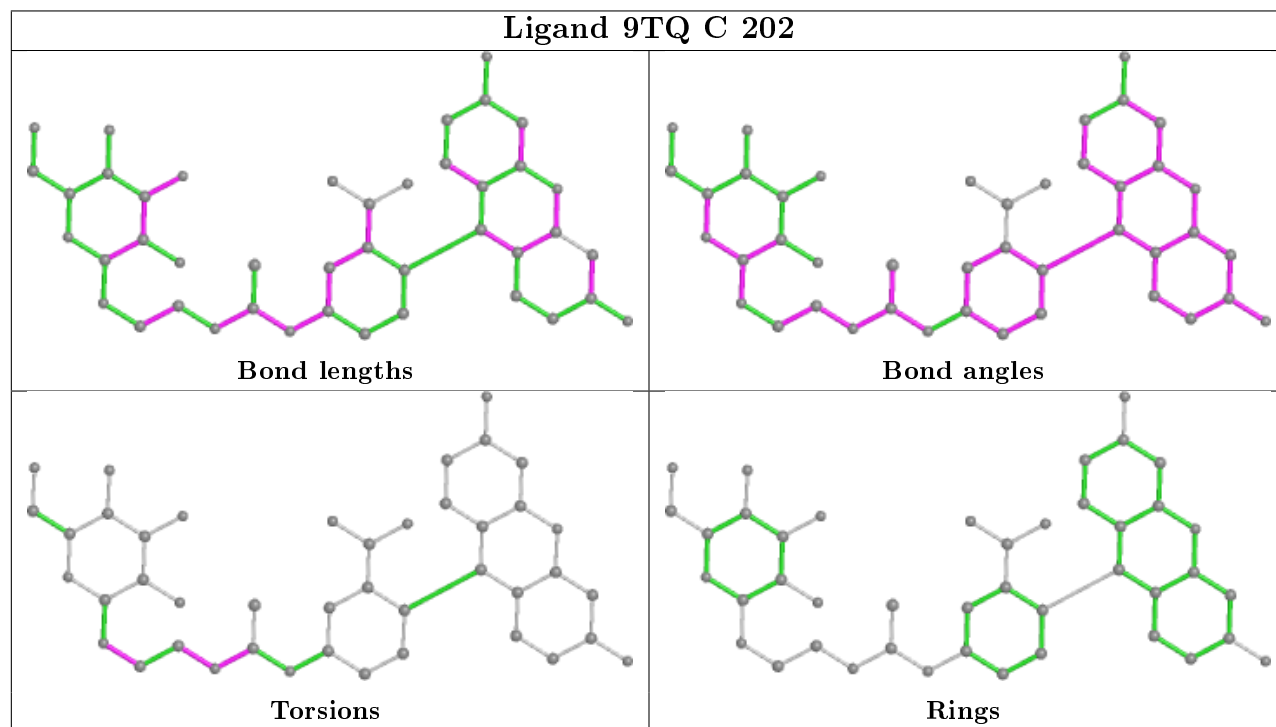
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	C	202	9TQ	1	1
3	A	202	9TQ	0	1

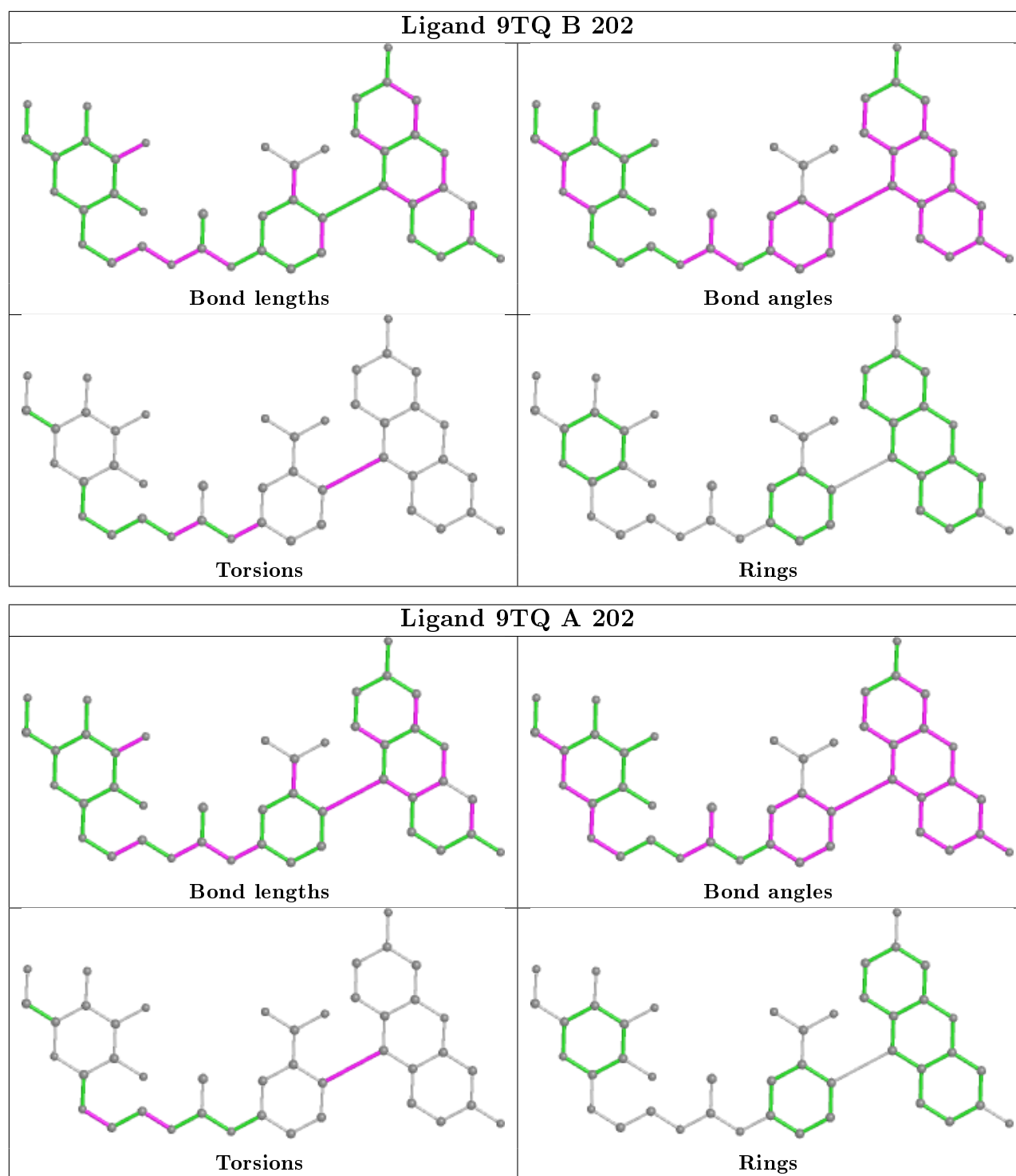
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 9TQ D 202



Ligand 9TQ C 202





5.7 Other polymers [i](#)

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	121/122 (99%)	-0.20	1 (0%) 86 85	20, 28, 47, 96	0
1	B	121/122 (99%)	-0.15	2 (1%) 70 68	17, 24, 43, 82	0
1	C	121/122 (99%)	-0.17	1 (0%) 86 85	18, 26, 48, 84	0
1	D	121/122 (99%)	-0.25	1 (0%) 86 85	20, 26, 41, 69	0
1	E	121/122 (99%)	-0.03	2 (1%) 70 68	18, 31, 50, 71	0
1	F	121/122 (99%)	-0.23	0 100 100	22, 29, 46, 67	0
1	G	121/122 (99%)	-0.02	2 (1%) 70 68	19, 31, 50, 79	0
1	H	121/122 (99%)	0.18	1 (0%) 86 85	27, 39, 60, 79	0
All	All	968/976 (99%)	-0.11	10 (1%) 82 81	17, 29, 52, 96	0

The worst 5 of 10 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	70	ASN	6.3
1	B	70	ASN	6.1
1	A	70	ASN	5.2
1	H	70	ASN	4.6
1	E	100	THR	3.0

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 carbohydrates in this entry.

6.4 Ligands

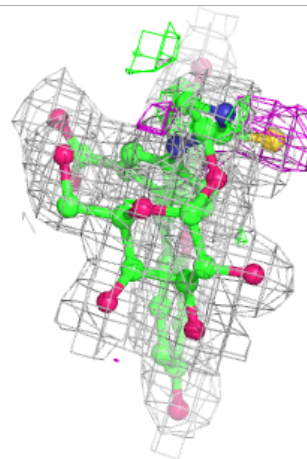
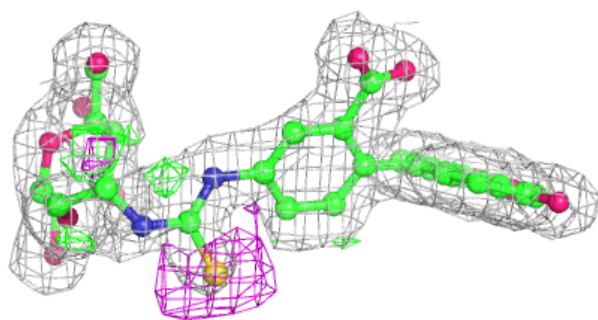
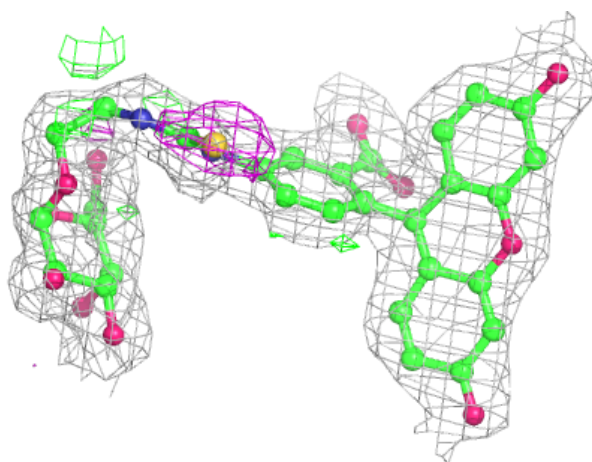
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	9TQ	C	202	43/43	0.90	0.14	18,24,34,49	0
3	9TQ	B	202	43/43	0.91	0.13	22,34,43,50	0
3	9TQ	D	202	43/43	0.93	0.13	16,34,47,51	0
3	9TQ	A	202	43/43	0.93	0.12	19,29,35,45	0
2	CA	H	201	1/1	0.95	0.07	44,44,44,44	0
2	CA	A	201	1/1	0.98	0.08	21,21,21,21	0
2	CA	G	201	1/1	0.98	0.09	33,33,33,33	0
2	CA	D	201	1/1	0.99	0.06	20,20,20,20	0
2	CA	C	201	1/1	0.99	0.05	24,24,24,24	0
2	CA	F	201	1/1	0.99	0.04	24,24,24,24	0
2	CA	E	201	1/1	0.99	0.04	29,29,29,29	0
2	CA	B	201	1/1	0.99	0.07	21,21,21,21	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.

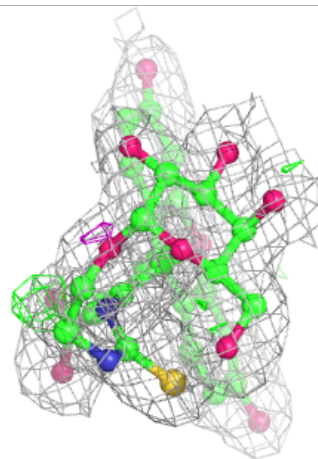
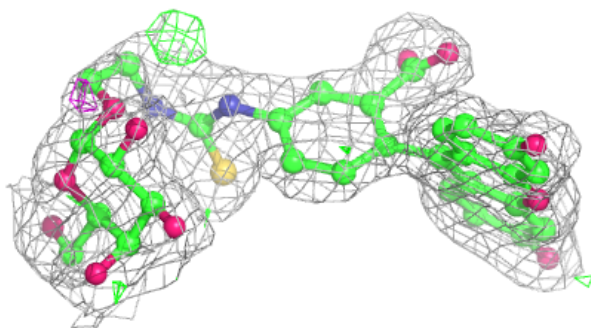
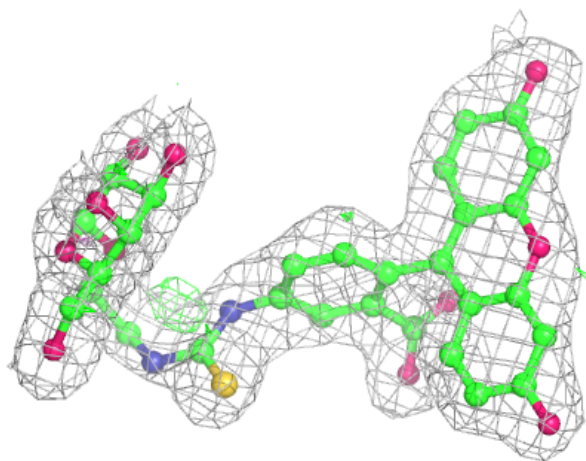
Electron density around 9TQ C 202:

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



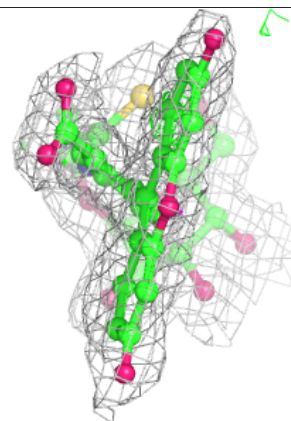
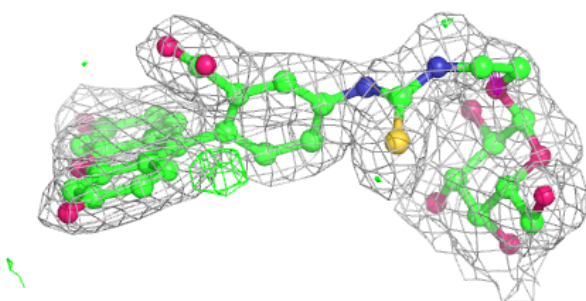
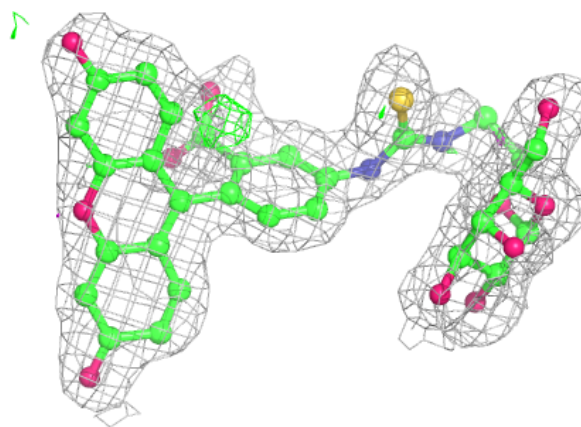
Electron density around 9TQ B 202:

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



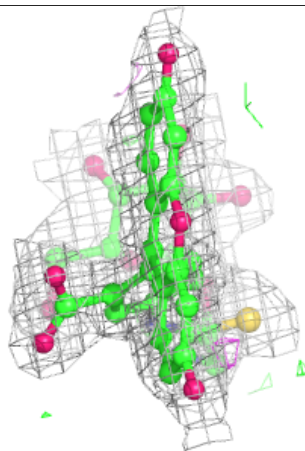
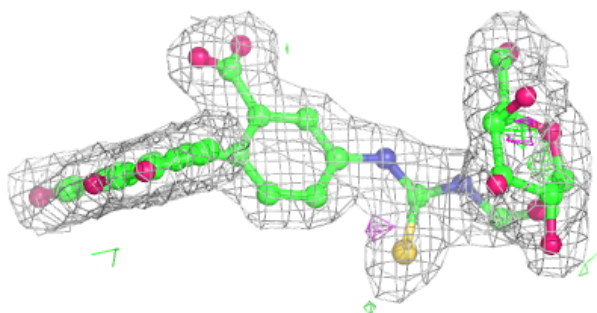
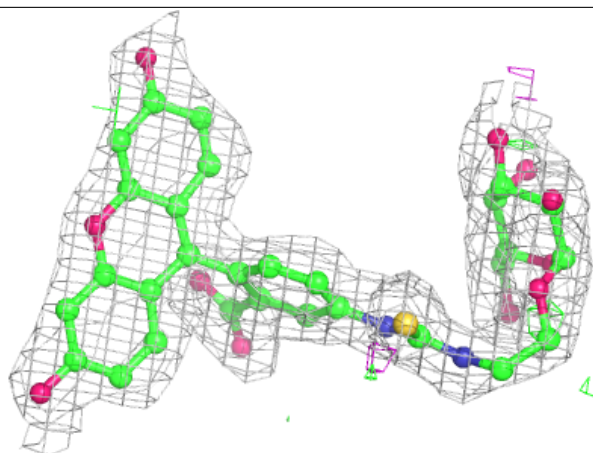
Electron density around 9TQ D 202:

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



Electron density around 9TQ A 202:

$2mF_o-DF_c$ (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.