wwPDB X-ray Structure Validation Summary Report (i)

Sep 24, 2023 – 01:55 PM EDT

PDB ID	:	5U3V
Title	:	Human PPARdelta ligand-binding domain in complexed with specific agonist 6
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Deposited on	:	2016-12-03
Resolution	:	1.84 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

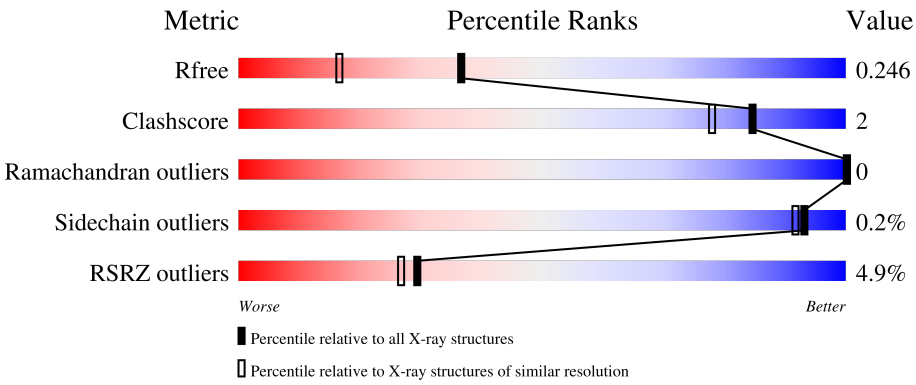
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 1.84 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	4003 (1.86-1.82)
Clashscore	141614	4233 (1.86-1.82)
Ramachandran outliers	138981	4185 (1.86-1.82)
Sidechain outliers	138945	4186 (1.86-1.82)
RSRZ outliers	127900	3957 (1.86-1.82)

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	272	5% 93% • • •
1	B	272	5% 92% 7% •

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
4	PEG	A	504	-	-	-	X

2 Entry composition (i)

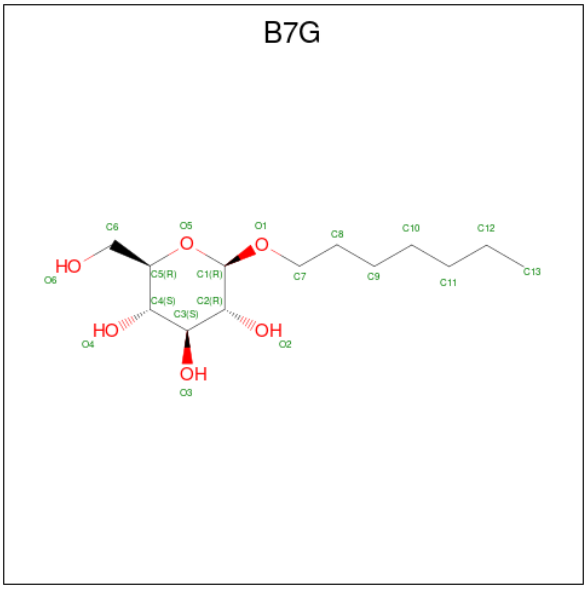
There are 6 unique types of molecules in this entry. The entry contains 9930 atoms, of which 4901 are hydrogens and 0 are deuteriums.

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 Peroxisome proliferator-activated receptor delta.

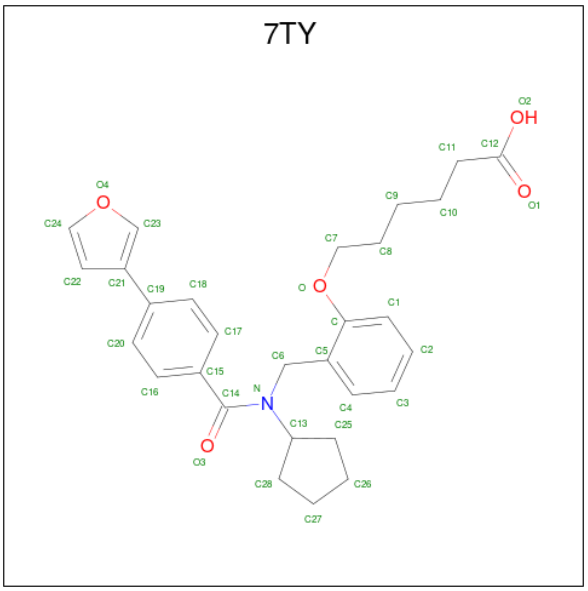
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	263	4596	1473	2325	380	406	12	0	25	0
1	B	268	4664	1498	2358	387	409	12	0	21	0

- Molecule 2 is heptyl beta-D-glucopyranoside (three-letter code: B7G) (formula: $C_{13}H_{26}O_6$).



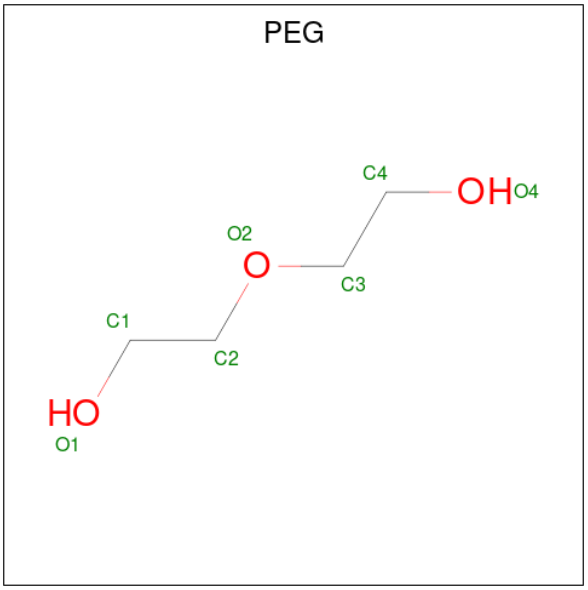
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
2	A	1	45	13	26	6	0	0
2	A	1	45	13	26	6	0	0

- Molecule 3 is 6-[2-({cyclopentyl[4-(furan-3-yl)benzene-1-carbonyl]amino}methyl)phenoxy]hexanoic acid (three-letter code: 7TY) (formula: $C_{29}H_{33}NO_5$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	N	O		
3	A	1	67	29	32	1	5	0	0
3	B	1	67	29	32	1	5	0	0

- Molecule 4 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
4	A	1	17	4	10	3	0	0
4	A	1	17	4	10	3	0	0

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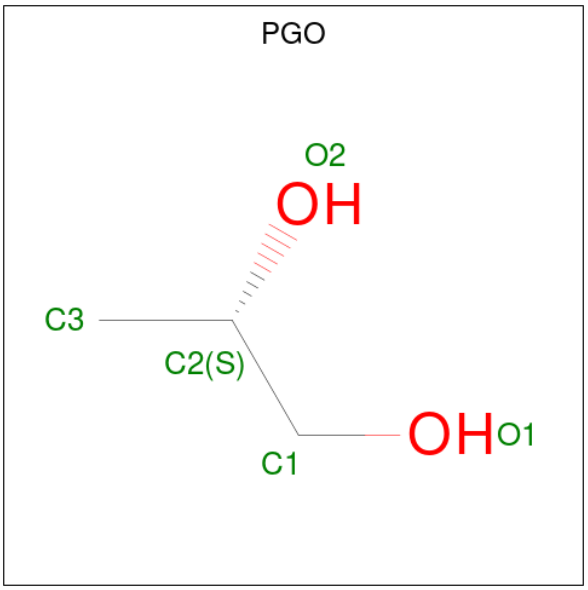
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
4	A	1	17	4	10	3	0	0
			Total	C	H	O		
4	B	1	34	8	20	6	0	1
			Total	C	H	O		
4	B	1	17	4	10	3	0	0
			Total	C	H	O		
4	B	1	17	4	10	3	0	0

- Molecule 5 is S-1,2-PROPANEDIOL (three-letter code: PGO) (formula: $C_3H_8O_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	H	O		
5	A	1	13	3	8	2	0	0
			Total	C	H	O		
5	B	1	26	6	16	4	0	1
			Total	C	H	O		
5	B	1	13	3	8	2	0	0

- Molecule 6 is water.

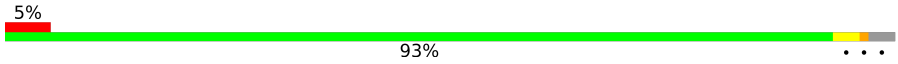
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
6	A	113	113	113	0	0
			Total	O		
6	B	162	162	162	0	0

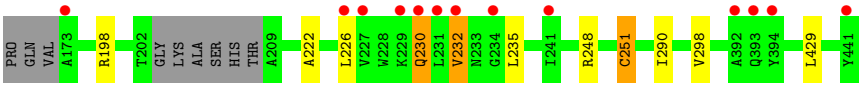
3 Residue-property plots (i)

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: Peroxisome proliferator-activated receptor delta

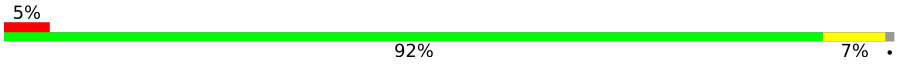
Chain A:

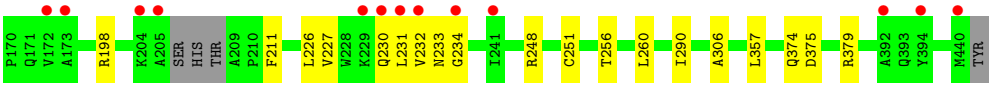




• Molecule 1: Peroxisome proliferator-activated receptor delta

Chain B:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	39.61Å 95.05Å 96.32Å 90.00° 97.87° 90.00°	Depositor
Resolution (Å)	47.71 – 1.84 47.71 – 1.84	Depositor EDS
% Data completeness (in resolution range)	97.2 (47.71-1.84) 97.3 (47.71-1.84)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.29 (at 1.84Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.200 , 0.244 0.202 , 0.246	Depositor DCC
R_{free} test set	1902 reflections (3.19%)	wwPDB-VP
Wilson B-factor (Å^2)	24.6	Xtriage
Anisotropy	0.514	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.38 , 50.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.95	EDS
Total number of atoms	9930	wwPDB-VP
Average B, all atoms (Å^2)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.98% of the height of the origin peak. No significant pseudotranslation is detected.*

[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 (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: PGO, B7G, PEG, 7TY, CME

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	0.49	0/2356	0.59	0/3182
1	B	0.51	0/2372	0.63	2/3206 (0.1%)
All	All	0.50	0/4728	0.61	2/6388 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	1
All	All	0	3

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	198	ARG	NE-CZ-NH2	-7.43	116.58	120.30
1	B	198	ARG	NE-CZ-NH1	6.73	123.67	120.30

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	230[B]	GLN	Peptide
1	A	232[A]	VAL	Peptide
1	B	230[A]	GLN	Peptide

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	2271	2325	2271	7	0
1	B	2306	2358	2351	12	0
2	A	38	52	52	0	0
3	A	35	32	0	2	0
3	B	35	32	0	2	0
4	A	21	30	30	0	0
4	B	28	40	40	0	0
5	A	5	8	8	1	0
5	B	15	24	24	1	0
6	A	113	0	0	2	1
6	B	162	0	0	0	1
All	All	5029	4901	4776	22	1

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 2.

The worst 5 of 22 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:B:231[B]:LEU:O	1:B:234[B]:GLY:N	2.33	0.62
5:A:505:PGO:H31	6:A:615:HOH:O	2.07	0.55
1:A:232[A]:VAL:O	1:A:235[A]:LEU:N	2.43	0.51
1:B:375:ASP:O	1:B:379:ARG:HG3	2.11	0.50
1:A:290:ILE:CG2	3:A:502:7TY:C27	2.90	0.49

All (1) 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)
6:A:699:HOH:O	6:B:743:HOH:O[2_8510]	2.17	0.03

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	283/272 (104%)	267 (94%)	16 (6%)	0	100	100
1	B	284/272 (104%)	280 (99%)	4 (1%)	0	100	100
All	All	567/544 (104%)	547 (96%)	20 (4%)	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	252/239 (105%)	252 (100%)	0	100	100
1	B	254/239 (106%)	252 (99%)	2 (1%)	81	75
All	All	506/478 (106%)	504 (100%)	2 (0%)	93	88

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	233[A]	ASN
1	B	233[B]	ASN

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

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

2 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	CME	B	251	1	8,9,10	0.78	0	5,9,11	3.00	2 (40%)
1	CME	A	251	1	8,9,10	1.01	0	5,9,11	2.49	1 (20%)

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
1	CME	B	251	1	-	4/5/8/10	-
1	CME	A	251	1	-	2/5/8/10	-

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	251	CME	CB-SG-SD	5.87	119.03	103.82
1	A	251	CME	CB-SG-SD	4.95	116.65	103.82
1	B	251	CME	CE-SD-SG	2.84	116.52	103.45

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	251	CME	N-CA-CB-SG

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Mol	Chain	Res	Type	Atoms
1	A	251	CME	CA-CB-SG-SD
1	B	251	CME	CZ-CE-SD-SG
1	B	251	CME	CE-SD-SG-CB
1	B	251	CME	CA-CB-SG-SD

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	251	CME	1	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

15 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	$\#\|Z\| > 2$
4	PEG	B	506	-	6,6,6	0.51	0	5,5,5	0.22	0
4	PEG	A	506	-	6,6,6	0.55	0	5,5,5	0.41	0
5	PGO	B	501[B]	-	3,4,4	0.18	0	1,4,4	0.34	0
5	PGO	B	504	-	3,4,4	0.30	0	1,4,4	0.04	0
3	7TY	A	502	-	35,38,38	0.88	2 (5%)	43,50,50	1.41	8 (18%)
4	PEG	A	503	-	6,6,6	0.56	0	5,5,5	0.43	0
4	PEG	B	505	-	6,6,6	0.54	0	5,5,5	0.50	0
5	PGO	B	501[A]	-	3,4,4	0.22	0	1,4,4	0.10	0
2	B7G	A	507	-	19,19,19	0.85	1 (5%)	24,24,24	0.81	0
3	7TY	B	502	-	35,38,38	0.85	1 (2%)	43,50,50	1.28	6 (13%)
4	PEG	B	503[B]	-	6,6,6	0.55	0	5,5,5	0.26	0
4	PEG	B	503[A]	-	6,6,6	0.62	0	5,5,5	0.31	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
5	PGO	A	505	-	3,4,4	0.24	0	1,4,4	0.26	0
4	PEG	A	504	-	6,6,6	0.63	0	5,5,5	0.49	0
2	B7G	A	501	-	19,19,19	0.85	0	24,24,24	1.13	1 (4%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	PEG	B	506	-	-	1/4/4/4	-
4	PEG	A	506	-	-	0/4/4/4	-
5	PGO	B	501[B]	-	-	2/2/2/2	-
5	PGO	B	504	-	-	1/2/2/2	-
3	7TY	A	502	-	-	7/29/36/36	0/4/4/4
4	PEG	A	503	-	-	0/4/4/4	-
4	PEG	B	505	-	-	3/4/4/4	-
5	PGO	B	501[A]	-	-	2/2/2/2	-
2	B7G	A	507	-	-	1/10/30/30	0/1/1/1
3	7TY	B	502	-	-	6/29/36/36	0/4/4/4
4	PEG	B	503[B]	-	-	1/4/4/4	-
4	PEG	B	503[A]	-	-	1/4/4/4	-
5	PGO	A	505	-	-	2/2/2/2	-
4	PEG	A	504	-	-	1/4/4/4	-
2	B7G	A	501	-	-	3/10/30/30	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	502	7TY	C22-C21	-2.63	1.38	1.42
3	B	502	7TY	C22-C21	-2.46	1.38	1.42
2	A	507	B7G	O5-C1	2.18	1.47	1.41
3	A	502	7TY	C23-C21	2.15	1.39	1.37

The worst 5 of 15 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	502	7TY	C6-N-C14	3.61	127.01	116.97
3	B	502	7TY	C6-N-C14	3.44	126.54	116.97
3	A	502	7TY	C4-C5-C	3.13	122.51	118.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A	502	7TY	C13-N-C14	-2.92	114.41	123.21
3	A	502	7TY	C10-C11-C12	-2.76	107.53	114.47

There are no chirality outliers.

5 of 31 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	B7G	O5-C1-O1-C7
3	A	502	7TY	C28-C13-N-C14
3	A	502	7TY	C25-C13-N-C14
3	B	502	7TY	C28-C13-N-C14
3	B	502	7TY	C25-C13-N-C14

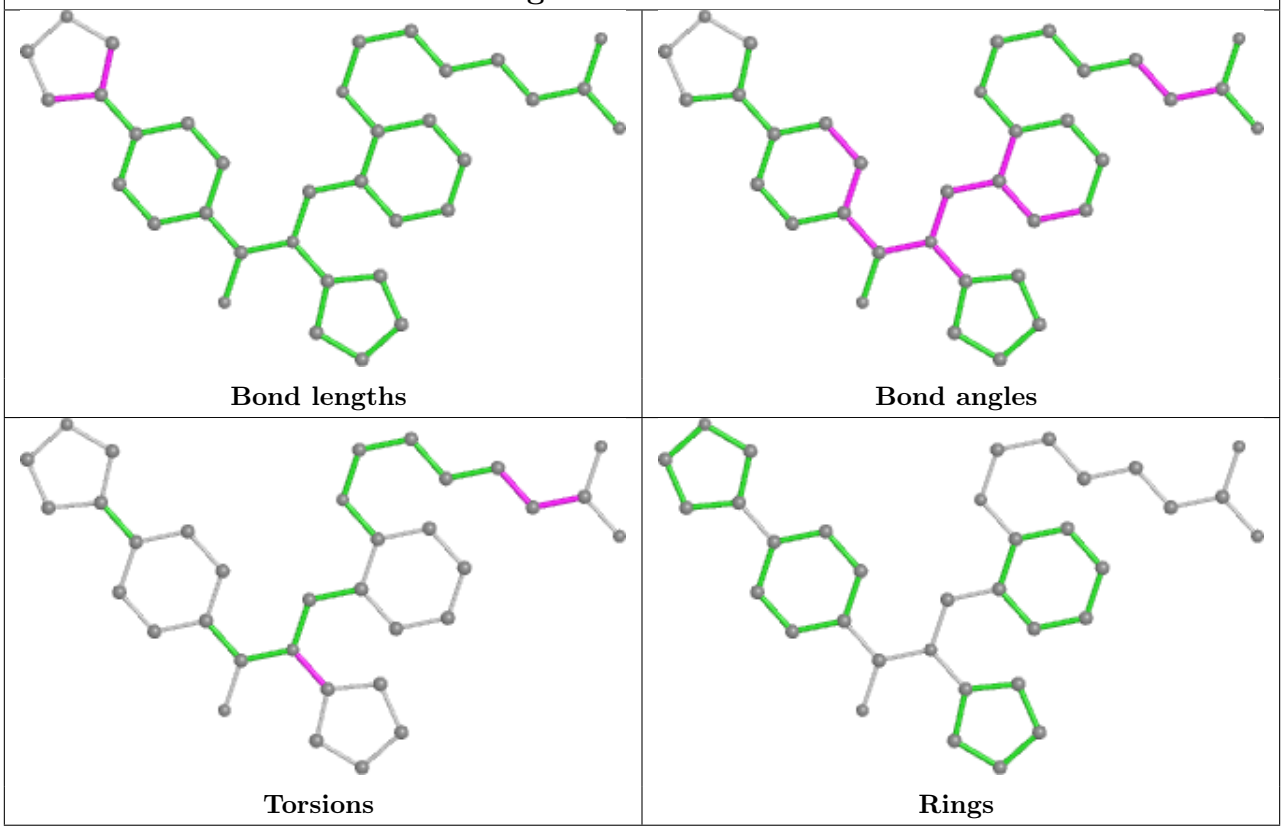
There are no ring outliers.

4 monomers are involved in 6 short contacts:

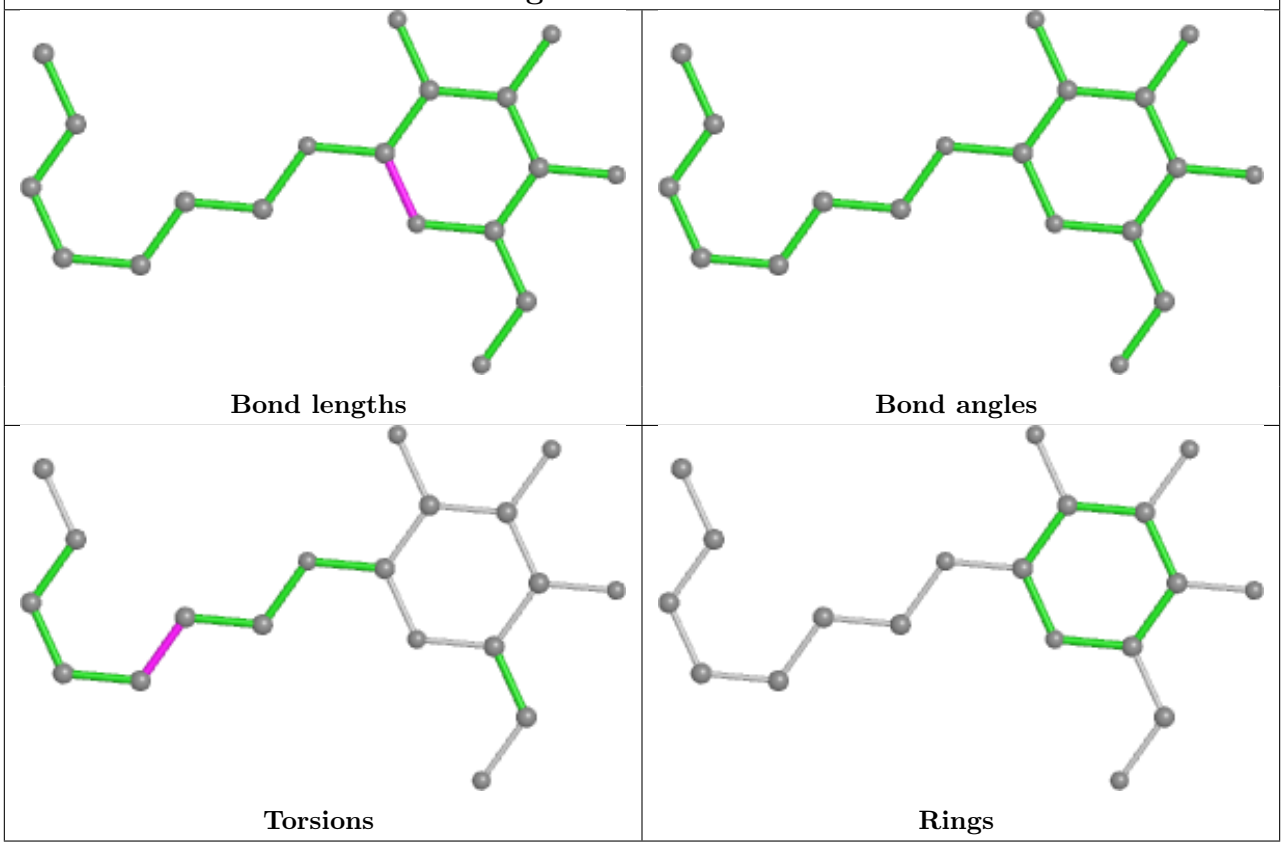
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	502	7TY	2	0
5	B	501[A]	PGO	1	0
3	B	502	7TY	2	0
5	A	505	PGO	1	0

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.

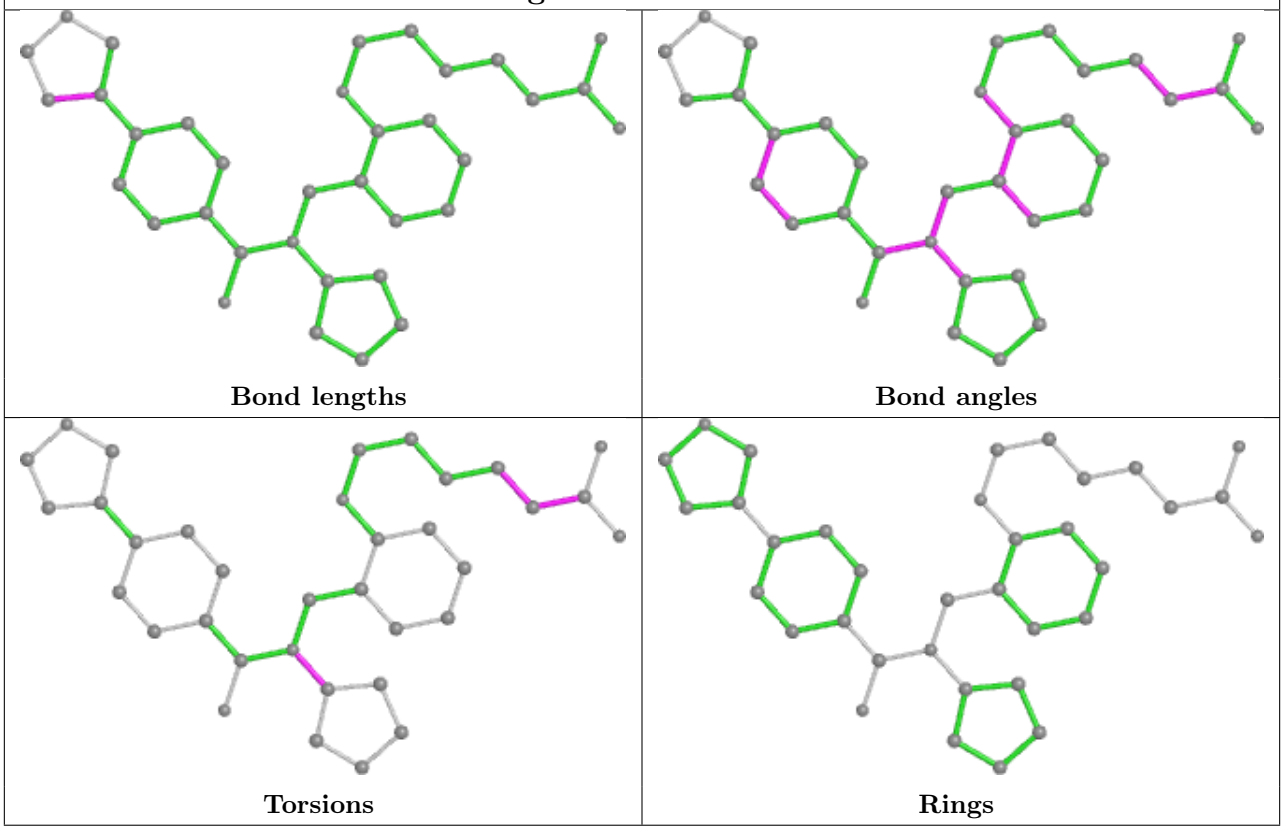
Ligand 7TY A 502



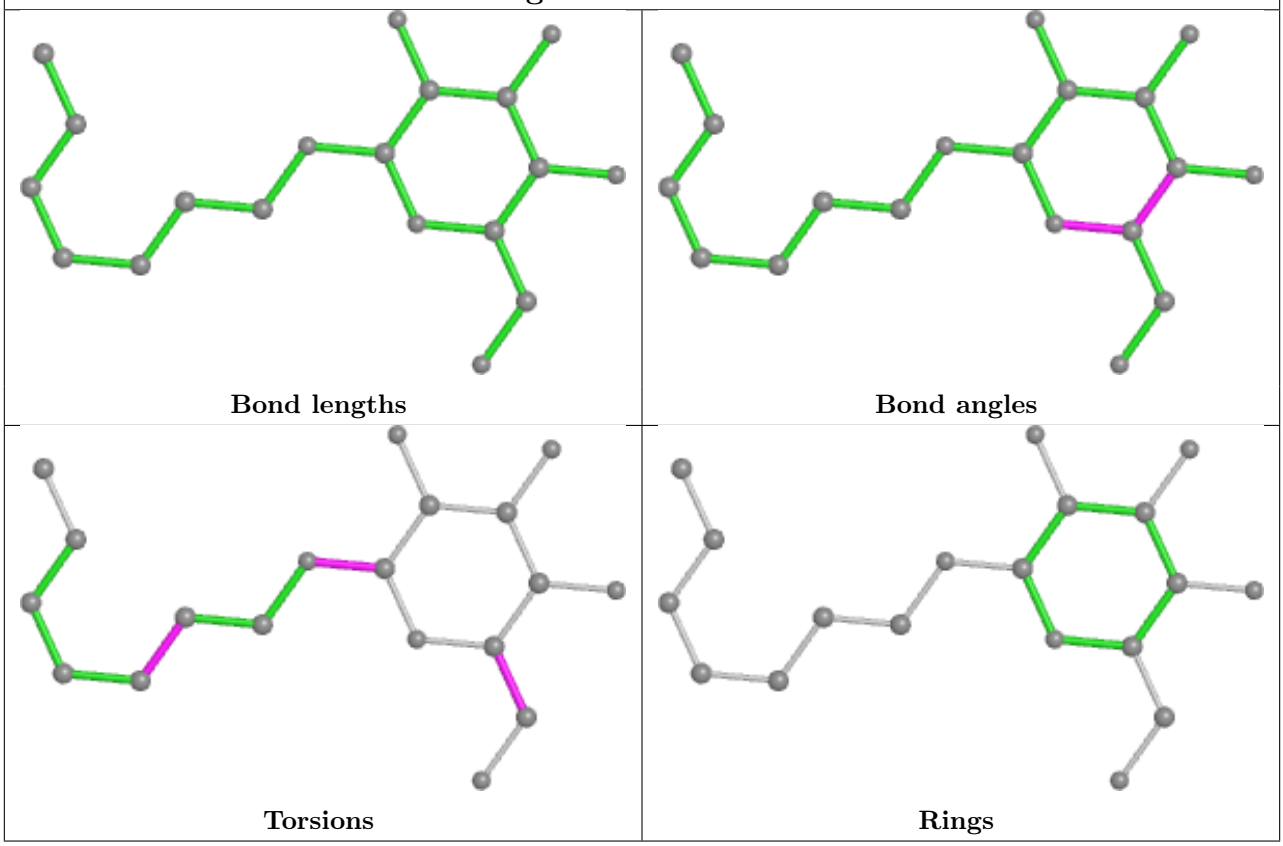
Ligand B7G A 507



Ligand 7TY B 502



Ligand B7G A 501



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data (i)

6.1 Protein, DNA and RNA chains (i)

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	262/272 (96%)	0.46	13 (4%)	28	26	19, 34, 68, 119	0
1	B	267/272 (98%)	0.37	13 (4%)	29	27	16, 28, 68, 124	0
All	All	529/544 (97%)	0.42	26 (4%)	29	27	16, 31, 68, 124	0

The worst 5 of 26 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	230[A]	GLN	7.4
1	B	229[A]	LYS	5.2
1	B	205	ALA	5.1
1	A	234[A]	GLY	4.8
1	A	231[A]	LEU	4.7

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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
1	CME	A	251	10/11	0.88	0.15	20,73,181,181	0
1	CME	B	251	10/11	0.88	0.15	19,68,170,170	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

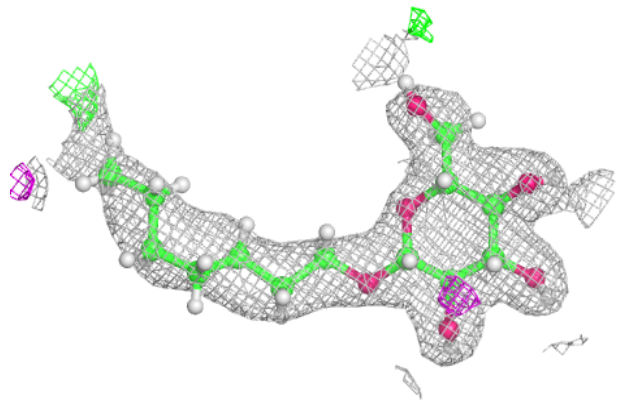
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

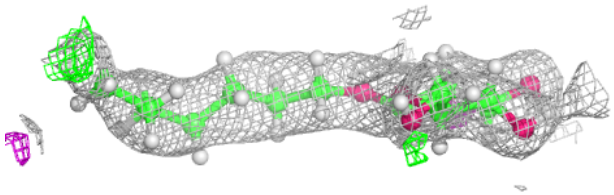
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
4	PEG	A	504	7/7	0.58	0.45	50,75,106,106	0
5	PGO	A	505	5/5	0.65	0.20	41,58,71,77	0
4	PEG	A	503	7/7	0.67	0.18	51,75,100,100	0
4	PEG	B	503[B]	7/7	0.69	0.23	22,53,65,65	17
4	PEG	B	503[A]	7/7	0.69	0.23	40,54,67,67	17
5	PGO	B	501[A]	5/5	0.73	0.21	36,46,53,55	13
5	PGO	B	501[B]	5/5	0.73	0.21	35,46,55,55	13
2	B7G	A	501	19/19	0.77	0.21	33,59,81,87	0
4	PEG	B	505	7/7	0.82	0.28	49,108,185,189	0
5	PGO	B	504	5/5	0.85	0.15	45,55,73,78	0
4	PEG	A	506	7/7	0.87	0.16	49,65,85,89	0
2	B7G	A	507	19/19	0.87	0.17	31,45,67,83	0
3	7TY	A	502	35/35	0.92	0.13	17,28,71,75	0
4	PEG	B	506	7/7	0.92	0.12	54,68,81,86	0
3	7TY	B	502	35/35	0.93	0.12	12,22,34,35	0

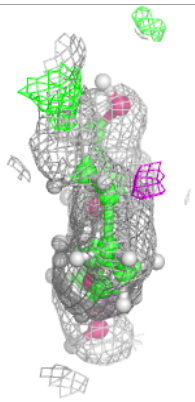
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around B7G A 501:

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

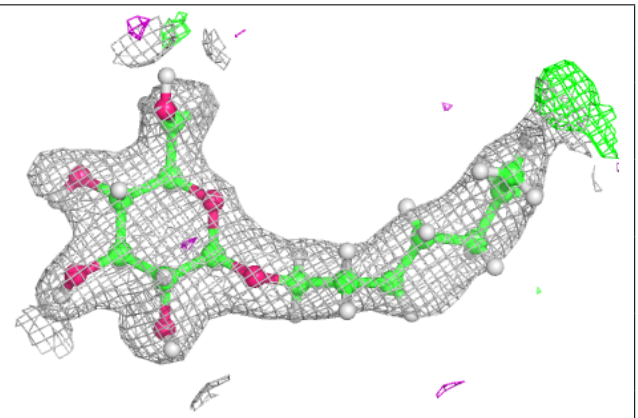


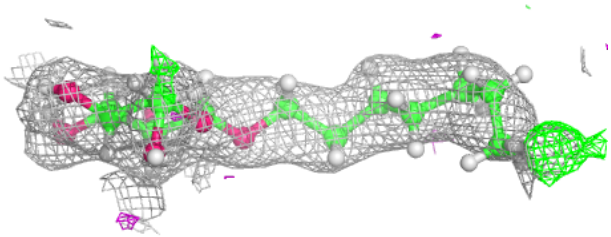


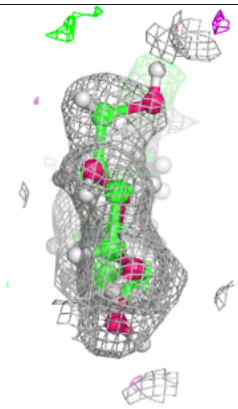


Electron density around B7G A 507:

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

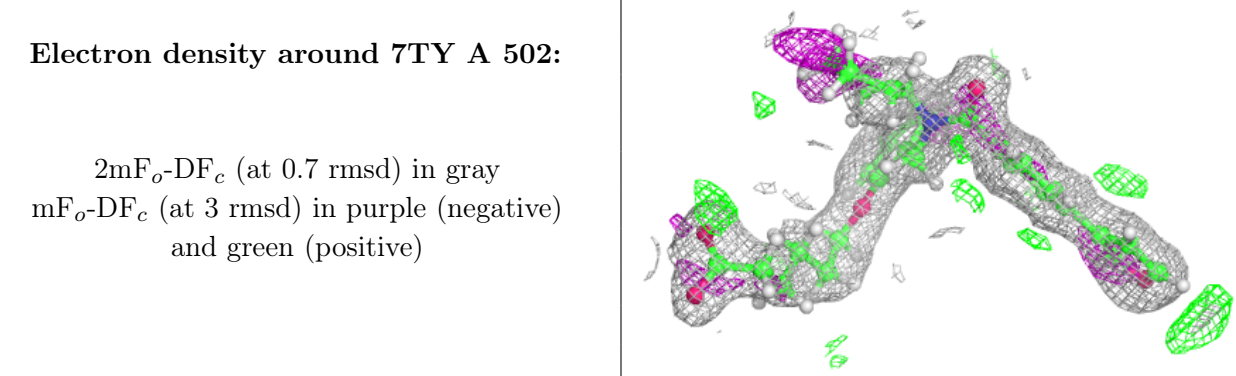


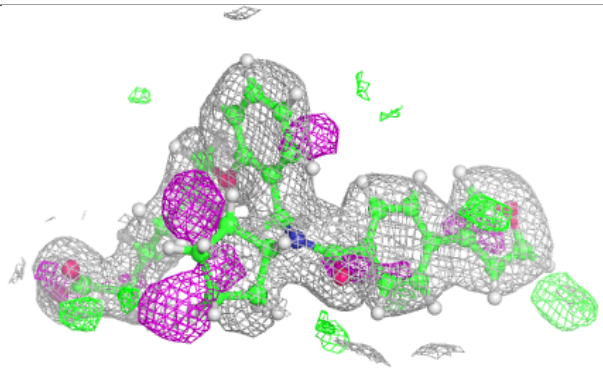


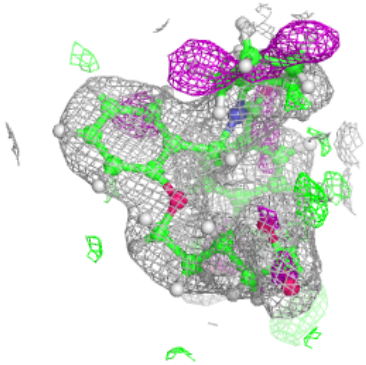


Electron density around 7TY A 502:

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

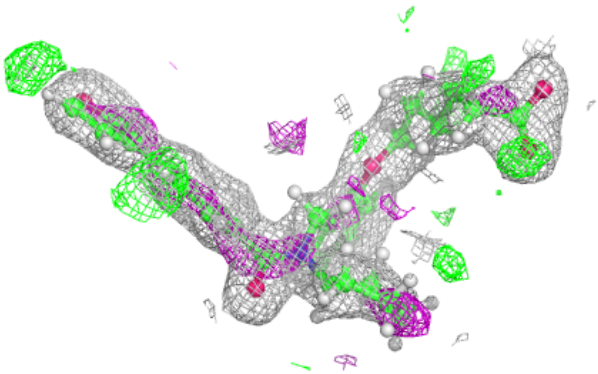


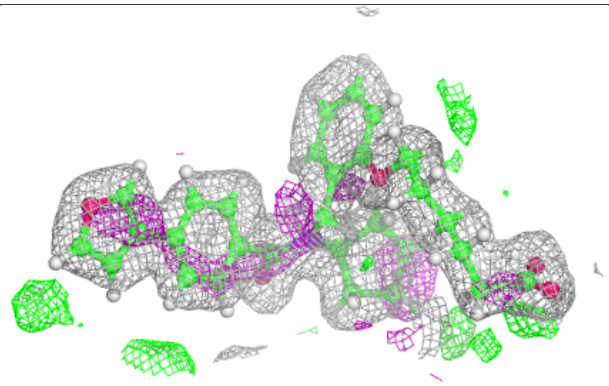


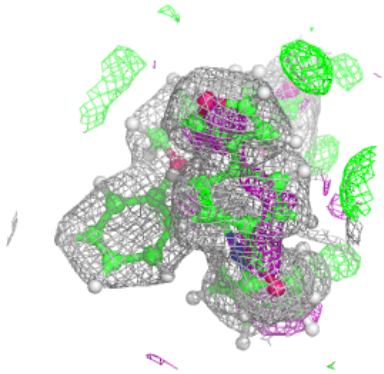


Electron density around 7TY B 502:

$2mF_o$-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.