



Full wwPDB X-ray Structure Validation Report ⓘ

Aug 8, 2020 – 06:13 AM BST

PDB ID : 5U3U
Title : Human PPARdelta ligand-binding domain in complexed with specific agonist
5
Authors : Wu, C.-C.; Baiga, T.J.; Downes, M.; La Clair, J.J.; Atkins, A.R.; Richard, S.B.; Stockley-Noel, T.A.; Bowman, M.E.; Evans, R.M.; Noel, J.P.
Deposited on : 2016-12-03
Resolution : 2.10 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 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 : 2.13.1
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) : 2.13.1

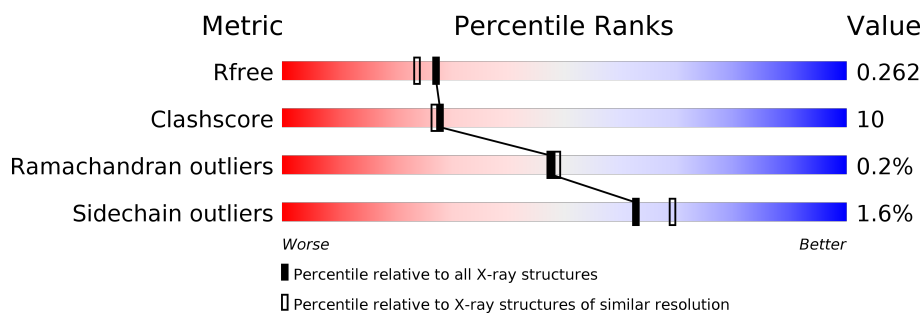
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)

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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	272	
1	B	272	

2 Entry composition [i](#)

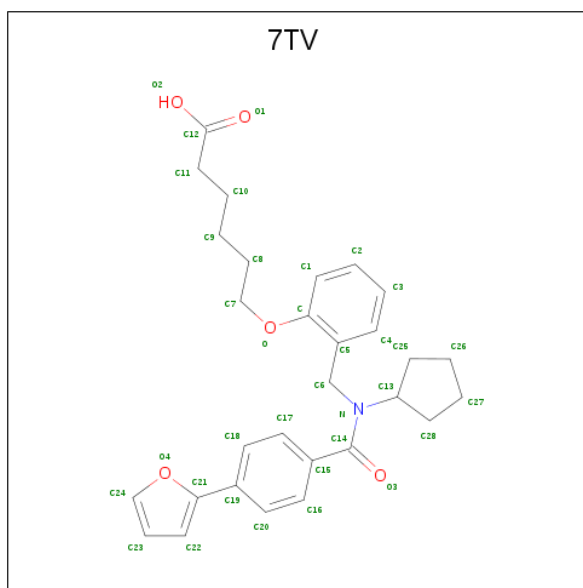
There are 6 unique types of molecules in this entry. The entry contains 4388 atoms, of which 102 are hydrogens and 0 are deuteriums.

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.

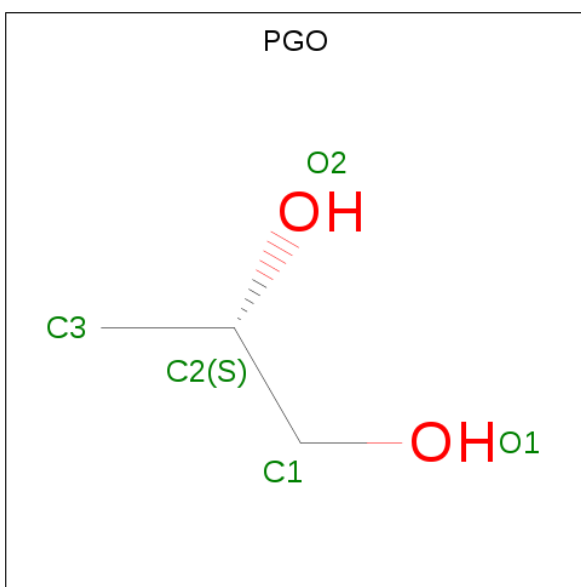
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	255	Total	C	N	O	S	0	1	0
			2068	1345	345	369	9			
1	B	250	Total	C	N	O	S	0	0	0
			2018	1309	338	362	9			

- Molecule 2 is 6-[2-({cyclopentyl[4-(furan-2-yl)benzene-1-carbonyl]amino}methyl)phenoxy]hexanoic acid (three-letter code: 7TV) (formula: C₂₉H₃₃NO₅).



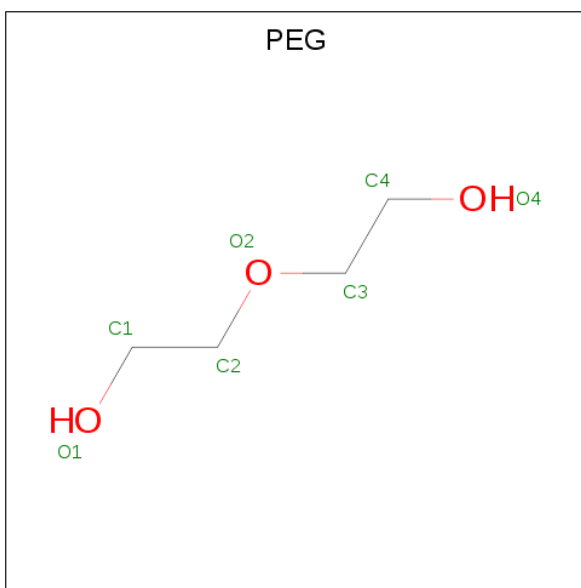
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	H	N	O	0	0
			67	29	32	1	5		

- Molecule 3 is S-1,2-PROPANEDIOL (three-letter code: PGO) (formula: C₃H₈O₂).



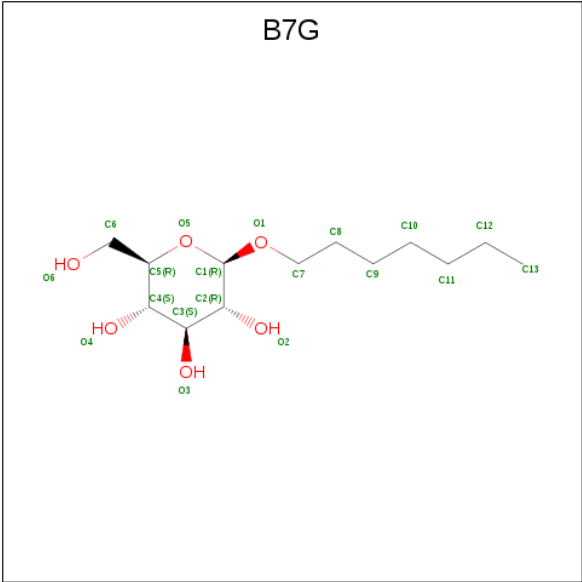
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			13	3	8	2		

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



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

- Molecule 5 is heptyl beta-D-glucopyranoside (three-letter code: B7G) (formula: $C_{13}H_{26}O_6$).



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

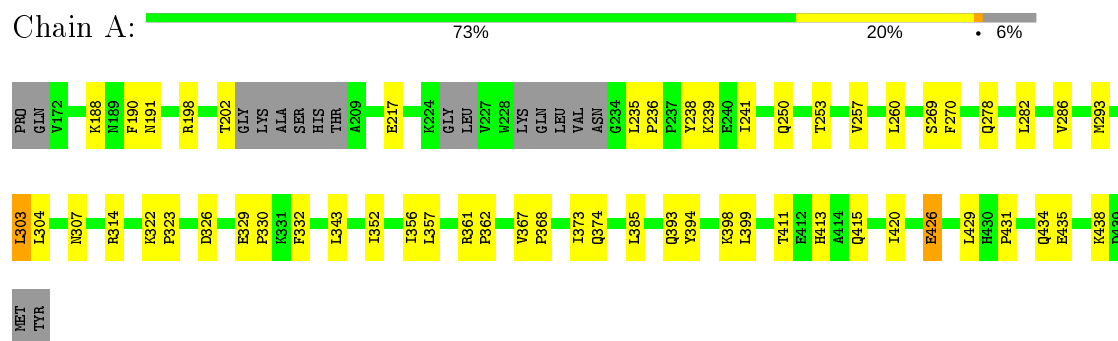
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	75	Total	O	0	0
			75	75		
6	B	40	Total	O	0	0
			40	40		

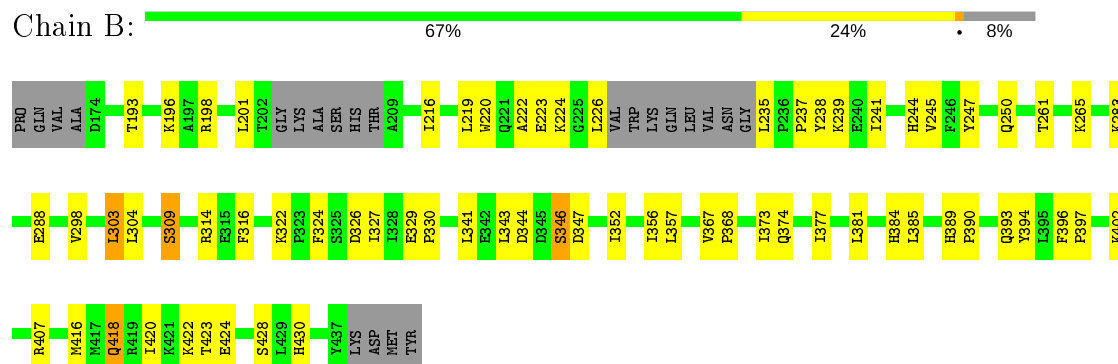
3 Residue-property plots [i](#)

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. 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. 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



- Molecule 1: Peroxisome proliferator-activated receptor delta



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	39.60Å 94.55Å 96.57Å 90.00° 97.91° 90.00°	Depositor
Resolution (Å)	38.18 – 2.10 38.18 – 1.85	Depositor EDS
% Data completeness (in resolution range)	79.4 (38.18-2.10) 79.6 (38.18-1.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.26 (at 1.85Å)	Xtriage
Refinement program	PHENIX 1.9pre_1665	Depositor
R, R_{free}	0.207 , 0.261 0.211 , 0.262	Depositor DCC
R_{free} test set	1594 reflections (3.33%)	wwPDB-VP
Wilson B-factor (Å ²)	20.3	Xtriage
Anisotropy	0.570	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 51.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	4388	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.29% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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

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	0.37	0/2115	0.51	0/2857
1	B	0.35	0/2060	0.51	0/2783
All	All	0.36	0/4175	0.51	0/5640

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

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	2068	0	2106	34	0
1	B	2018	0	2059	48	0
2	A	35	32	0	3	0
3	A	5	8	8	0	0
4	A	7	10	10	1	0
5	A	19	26	26	0	0
5	B	19	26	26	1	0
6	A	75	0	0	1	0
6	B	40	0	0	0	0
All	All	4286	102	4235	83	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including

hydrogen atoms). The all-atom clashscore for this structure is 10.

All (83) 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:298:VAL:HG22	1:B:303:LEU:HB3	1.67	0.75
1:A:239:LYS:HD2	1:A:426:GLU:HG2	1.70	0.72
1:B:222:ALA:HB1	1:B:226:LEU:CD1	2.21	0.71
1:B:346:SER:HB3	1:B:384:HIS:NE2	2.07	0.70
1:B:250:GLN:OE1	1:B:430:HIS:N	2.18	0.69
1:B:261:THR:HG22	1:B:265:LYS:HE3	1.76	0.68
1:B:344:ASP:OD2	1:B:346:SER:HB2	1.97	0.65
1:B:216:ILE:HG12	1:B:241:ILE:HD12	1.79	0.65
1:B:220:TRP:O	1:B:224:LYS:HG3	1.98	0.64
1:A:343:LEU:HD11	1:A:399:LEU:HD21	1.81	0.63
1:B:357:LEU:HD13	1:B:373:ILE:CG2	2.29	0.62
1:B:222:ALA:HB1	1:B:226:LEU:HD12	1.82	0.62
1:A:253:THR:O	1:A:257:VAL:HG23	2.00	0.61
1:B:241:ILE:HD11	1:B:316:PHE:HZ	1.65	0.61
1:A:394:TYR:O	1:A:398:LYS:HG3	2.03	0.59
1:A:357:LEU:O	1:A:374:GLN:HB2	2.03	0.59
1:A:413:HIS:NE2	2:A:501:7TV:O1	2.25	0.59
1:A:269:SER:HB2	1:A:373:ILE:HD13	1.86	0.58
1:B:222:ALA:HB1	1:B:226:LEU:HD11	1.85	0.58
1:A:282:LEU:O	1:A:286:VAL:HG22	2.05	0.56
1:A:191:ASN:ND2	1:A:307:ASN:OD1	2.39	0.56
1:B:393:GLN:O	1:B:394:TYR:HB2	2.05	0.55
1:B:423:THR:HG23	1:B:424:GLU:HG2	1.87	0.55
1:A:303:LEU:HD22	1:A:304:LEU:O	2.06	0.55
1:A:411:THR:O	1:A:415:GLN:HG3	2.08	0.54
1:A:188:LYS:HE2	6:A:637:HOH:O	2.06	0.54
1:B:288:GLU:OE2	1:B:407:ARG:HG2	2.06	0.54
1:A:367:VAL:HB	1:A:368:PRO:HD3	1.90	0.54
1:B:341:LEU:HD11	1:B:402:LYS:HZ2	1.74	0.53
1:B:357:LEU:HD13	1:B:373:ILE:HG22	1.90	0.53
1:B:241:ILE:O	1:B:245:VAL:HG23	2.09	0.53
1:B:357:LEU:O	1:B:374:GLN:HB2	2.09	0.52
1:B:219:LEU:CD2	1:B:241:ILE:HG13	2.40	0.52
1:B:235:LEU:HD22	1:B:247:TYR:HB3	1.92	0.51
1:B:357:LEU:HD13	1:B:373:ILE:HG21	1.93	0.50
1:B:322:LYS:HG2	1:B:326:ASP:OD2	2.12	0.50
1:B:223:GLU:OE2	1:B:244:HIS:NE2	2.31	0.49
1:B:283:LYS:HG3	5:B:501:B7G:H81	1.93	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:193:THR:OG1	1:B:196:LYS:HD3	2.13	0.48
1:A:343:LEU:HD11	1:A:399:LEU:CD2	2.43	0.48
1:B:314:ARG:NH2	1:B:329:GLU:OE2	2.47	0.47
1:B:352:ILE:O	1:B:356:ILE:HG12	2.14	0.47
1:A:329:GLU:N	1:A:330:PRO:HD2	2.30	0.47
1:B:198:ARG:NH2	1:B:298:VAL:O	2.35	0.47
1:A:235:LEU:HB3	1:A:236:PRO:CD	2.45	0.46
1:B:201:LEU:CD1	1:B:304:LEU:HD21	2.46	0.46
1:A:238:TYR:OH	1:A:241:ILE:HD13	2.15	0.46
1:A:393:GLN:O	1:A:394:TYR:HB2	2.15	0.46
1:A:303:LEU:O	1:A:303:LEU:HD13	2.16	0.46
1:B:341:LEU:HD11	1:B:402:LYS:NZ	2.30	0.46
1:A:352:ILE:O	1:A:356:ILE:HG12	2.17	0.45
1:B:237:PRO:O	1:B:239:LYS:N	2.49	0.45
1:B:219:LEU:HD22	1:B:241:ILE:HD11	1.99	0.45
1:B:367:VAL:HB	1:B:368:PRO:HD3	1.99	0.45
1:A:323:PRO:HG2	1:A:420:ILE:HG12	1.99	0.44
1:B:396:PHE:HB3	1:B:397:PRO:CD	2.48	0.44
1:B:416:MET:O	1:B:420:ILE:HG13	2.18	0.44
1:B:357:LEU:HD12	1:B:377:ILE:HD11	1.99	0.44
1:A:431:PRO:O	1:A:434:GLN:HB2	2.18	0.43
1:A:190:PHE:HZ	1:A:260:LEU:HD23	1.83	0.43
1:A:322:LYS:HG2	1:A:326:ASP:OD2	2.17	0.43
1:B:201:LEU:HD11	1:B:304:LEU:HG	2.00	0.43
1:A:250:GLN:OE1	1:A:429:LEU:HA	2.18	0.43
1:A:361:ARG:HA	1:A:362:PRO:HD3	1.74	0.43
1:A:253:THR:HG21	2:A:501:7TV:O2	2.18	0.43
1:A:198:ARG:O	1:A:202:THR:HG23	2.18	0.42
1:A:435:GLU:O	1:A:438:LYS:HG2	2.20	0.42
1:B:250:GLN:HE21	1:B:250:GLN:HB2	1.59	0.42
1:B:357:LEU:HD12	1:B:377:ILE:CD1	2.50	0.42
1:A:270:PHE:CZ	1:A:278:GLN:HB3	2.54	0.42
1:B:324:PHE:O	1:B:327:ILE:HG22	2.20	0.42
1:A:385:LEU:HD11	1:A:399:LEU:HD12	2.02	0.41
2:A:501:7TV:C28	2:A:501:7TV:C5	2.98	0.41
1:B:381:LEU:O	1:B:385:LEU:HG	2.20	0.41
1:A:217:GLU:HG3	4:A:503:PEG:H41	2.03	0.41
1:A:293:MET:HG2	1:A:352:ILE:HD11	2.02	0.41
1:A:314:ARG:HD2	1:A:332:PHE:CD1	2.56	0.41
1:B:329:GLU:N	1:B:330:PRO:CD	2.83	0.41
1:B:343:LEU:HB3	1:B:347:ASP:HB2	2.03	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:220:TRP:CE2	1:B:224:LYS:HD2	2.56	0.40
1:B:389:HIS:N	1:B:390:PRO:HD3	2.37	0.40
1:B:226:LEU:HD22	1:B:309:SER:HB3	2.02	0.40
1:B:418:GLN:O	1:B:422:LYS:HG3	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	248/272 (91%)	242 (98%)	6 (2%)	0	100	100
1	B	244/272 (90%)	237 (97%)	6 (2%)	1 (0%)	34	32
All	All	492/544 (90%)	479 (97%)	12 (2%)	1 (0%)	47	49

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	238	TYR

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	227/240 (95%)	225 (99%)	2 (1%)	78	84

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	222/240 (92%)	217 (98%)	5 (2%)	50	55
All	All	449/480 (94%)	442 (98%)	7 (2%)	62	69

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	303	LEU
1	A	426	GLU
1	B	303	LEU
1	B	309	SER
1	B	346	SER
1	B	418	GLN
1	B	428	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	386	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

5 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$
5	B7G	B	501	-	19,19,19	0.89	0	24,24,24	0.75	0
3	PGO	A	502	-	3,4,4	0.23	0	1,4,4	0.09	0
2	7TV	A	501	-	31,38,38	0.48	0	39,50,50	1.29	5 (12%)
4	PEG	A	503	-	6,6,6	0.70	0	5,5,5	0.33	0
5	B7G	A	504	-	19,19,19	0.90	0	24,24,24	0.76	0

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
5	B7G	B	501	-	-	5/10/30/30	0/1/1/1
3	PGO	A	502	-	-	0/2/2/2	-
2	7TV	A	501	-	-	8/25/36/36	0/4/4/4
4	PEG	A	503	-	-	4/4/4/4	-
5	B7G	A	504	-	-	1/10/30/30	0/1/1/1

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	7TV	C7-O-C	3.69	126.71	117.69
2	A	501	7TV	C6-N-C14	3.37	126.35	116.97
2	A	501	7TV	C22-C21-C19	-2.35	126.57	128.77
2	A	501	7TV	C15-C14-N	2.31	123.36	118.77
2	A	501	7TV	C13-N-C14	-2.10	116.88	123.21

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	501	7TV	C28-C13-N-C6
2	A	501	7TV	C28-C13-N-C14
2	A	501	7TV	C25-C13-N-C14

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms
4	A	503	PEG	C4-C3-O2-C2
4	A	503	PEG	O1-C1-C2-O2
4	A	503	PEG	O2-C3-C4-O4
2	A	501	7TV	O-C7-C8-C9
2	A	501	7TV	C11-C10-C9-C8
5	B	501	B7G	C11-C10-C9-C8
5	B	501	B7G	O1-C7-C8-C9
2	A	501	7TV	C8-C7-O-C
5	B	501	B7G	C8-C7-O1-C1
5	A	504	B7G	C7-C8-C9-C10
5	B	501	B7G	C4-C5-C6-O6
2	A	501	7TV	C9-C10-C11-C12
5	B	501	B7G	C9-C10-C11-C12
4	A	503	PEG	C1-C2-O2-C3
2	A	501	7TV	C25-C13-N-C6

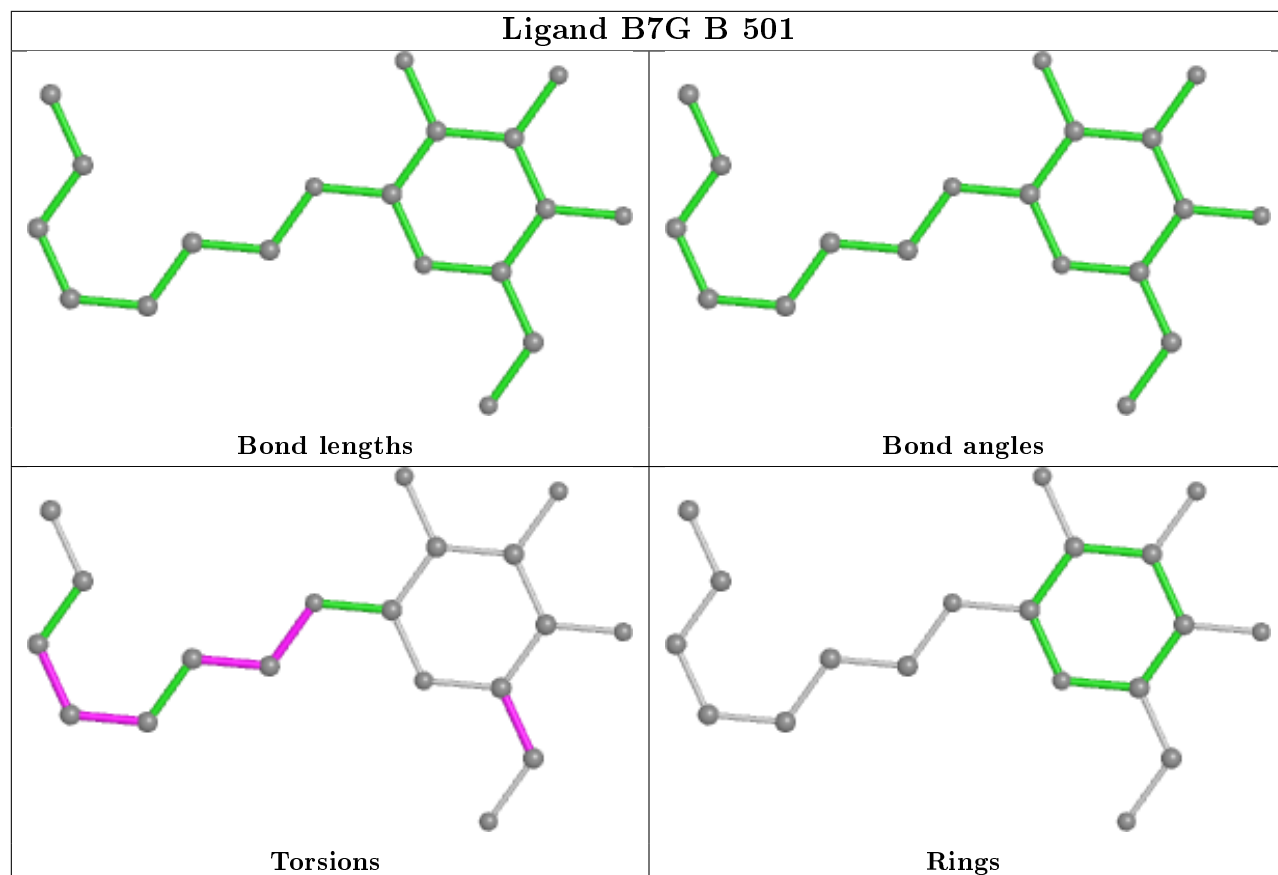
There are no ring outliers.

3 monomers are involved in 5 short contacts:

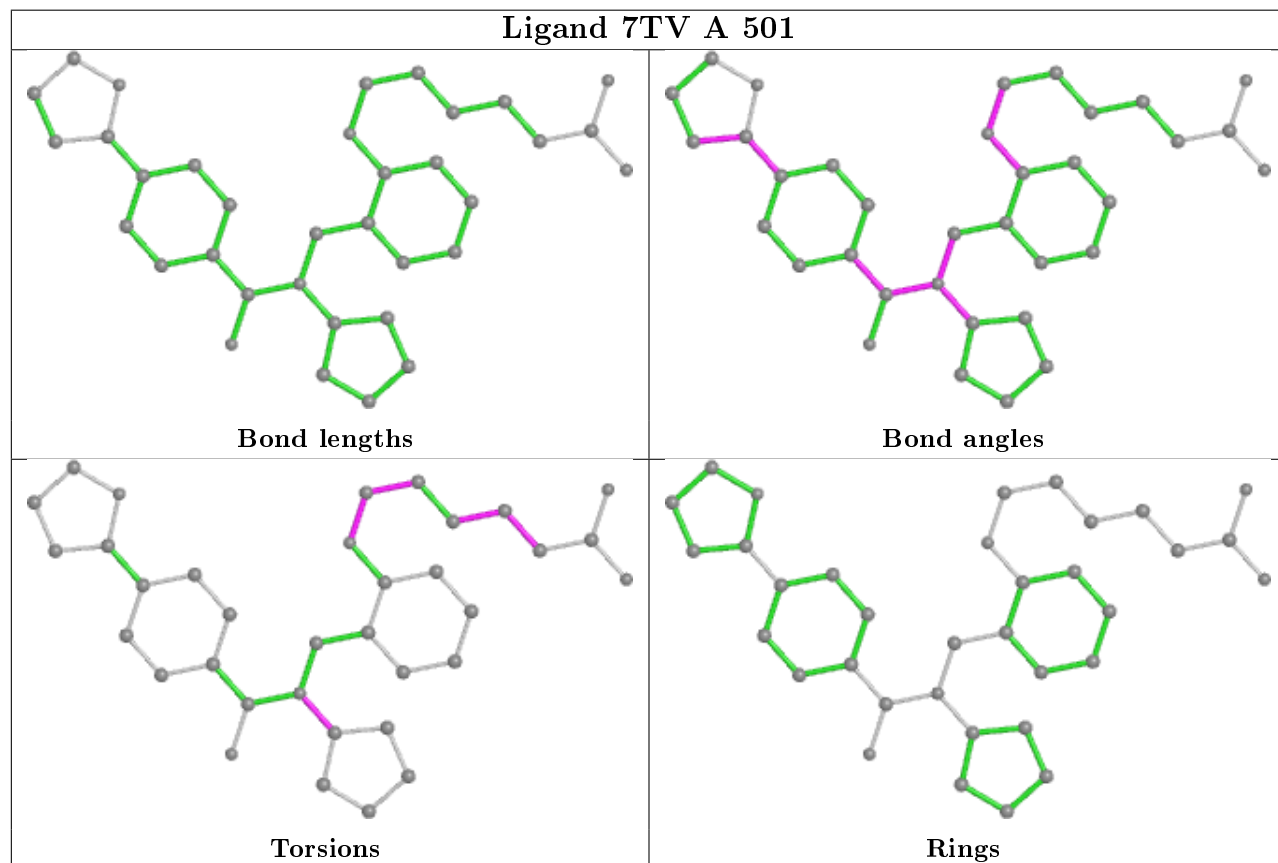
Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	B	501	B7G	1	0
2	A	501	7TV	3	0
4	A	503	PEG	1	0

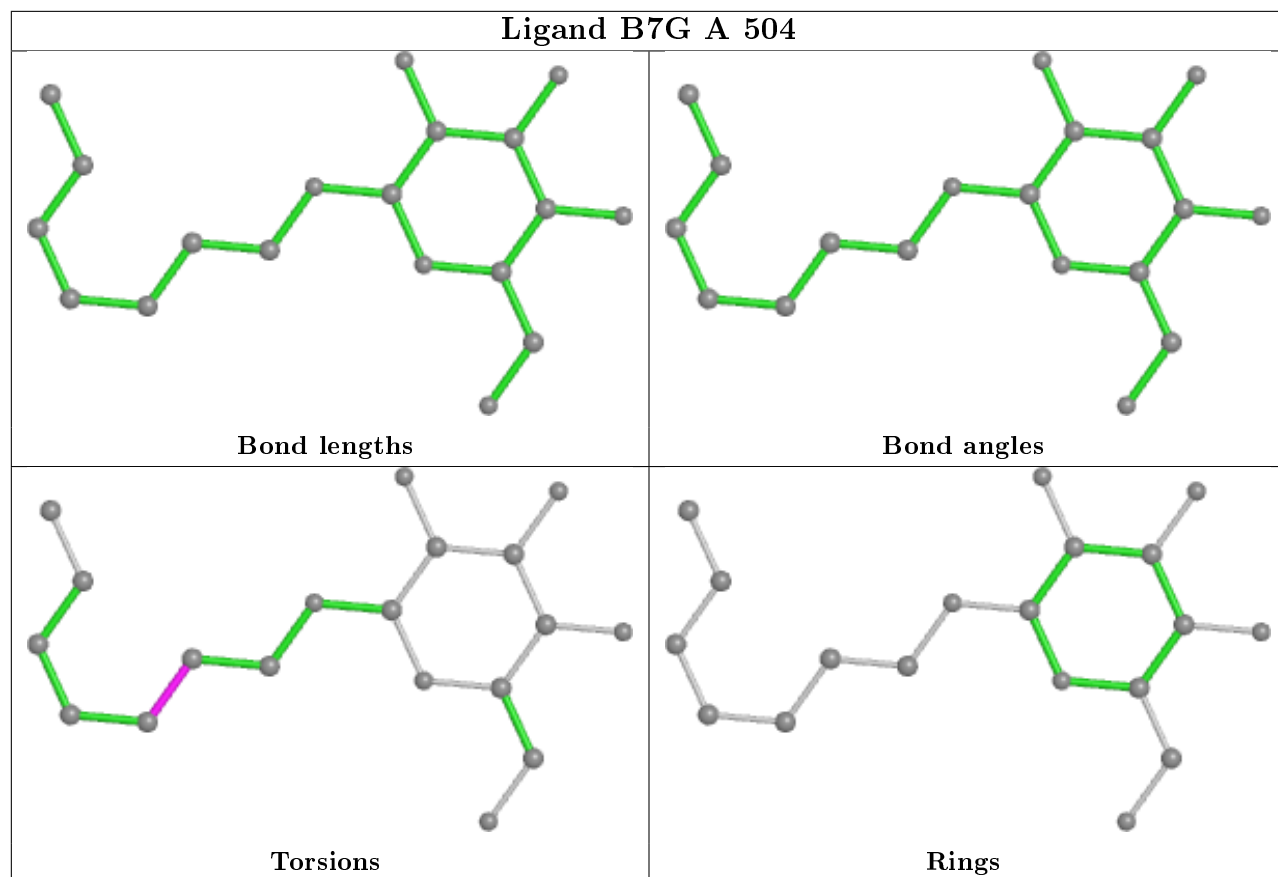
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less 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 B7G B 501



Ligand 7TV 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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

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

Unable to reproduce the depositors R factor - this section is therefore empty.

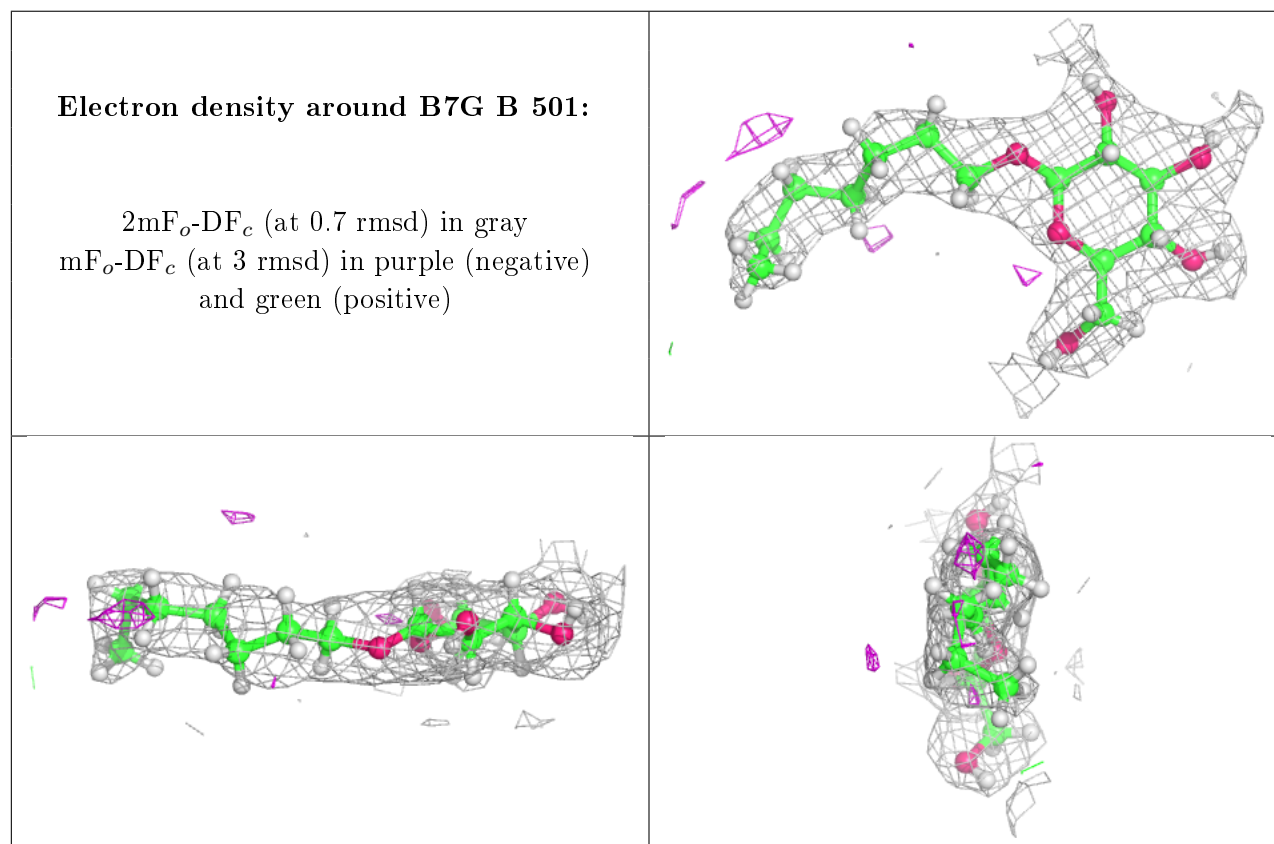
6.3 Carbohydrates ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.

6.4 Ligands ⓘ

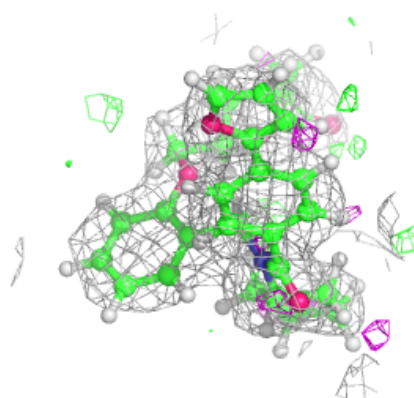
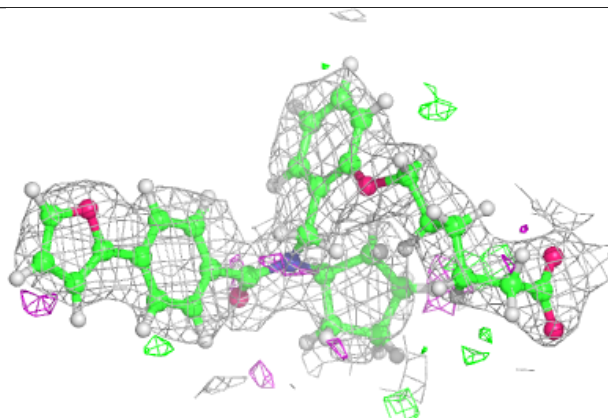
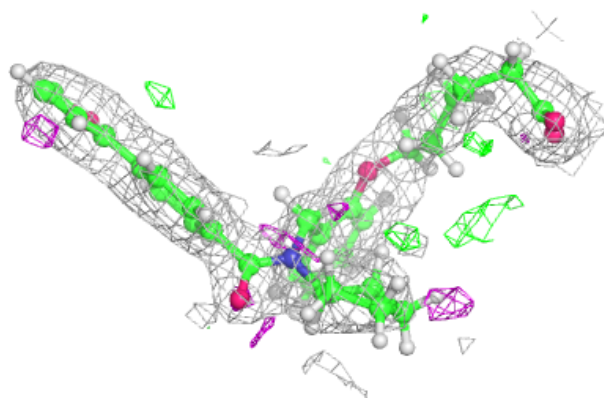
Unable to reproduce the depositors R factor - this section is therefore empty.

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.

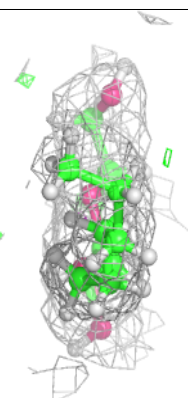
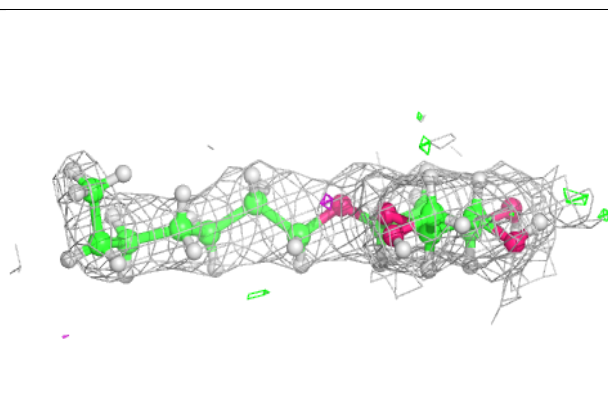
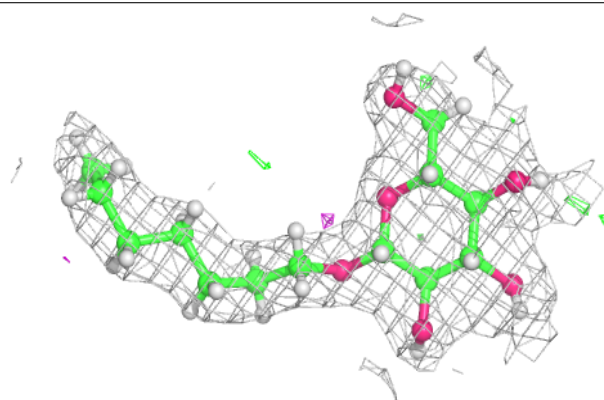


Electron density around 7TV A 501:

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

**Electron density around B7G A 504:**

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



6.5 Other polymers ⓘ

Unable to reproduce the depositors R factor - this section is therefore empty.