



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 15, 2026 – 12:36 AM UTC

PDB ID : 5U3W / pdb_00005u3w
Title : Human PPARdelta ligand-binding domain in complexed with specific agonist 7
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 : 1.80 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

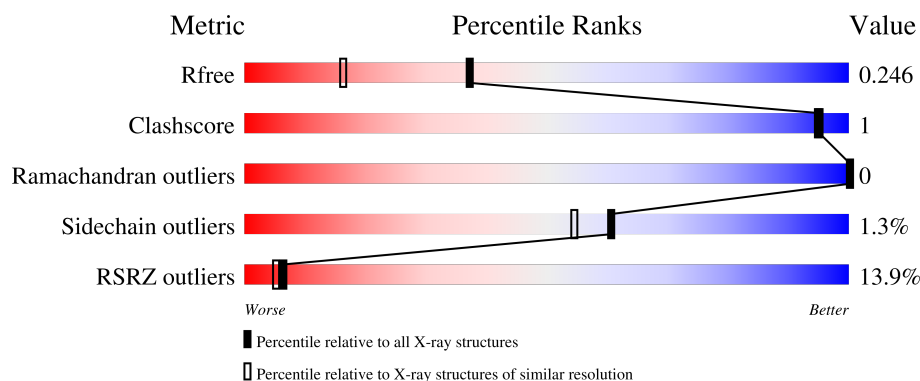
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	272	12% 95% ..
1	B	272	14% 93% ..

2 Entry composition [i](#)

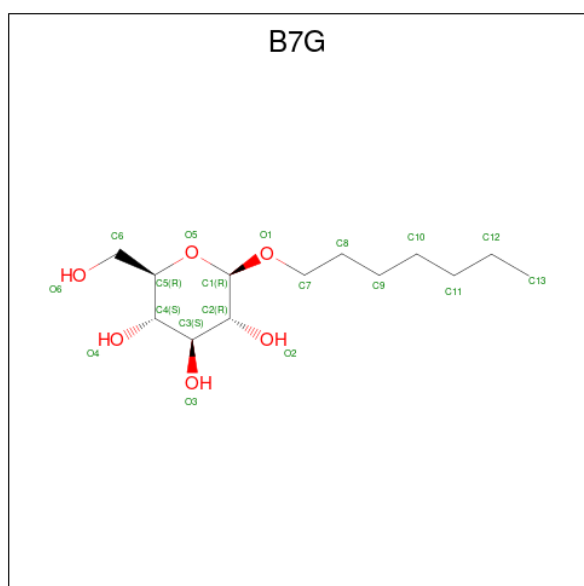
There are 6 unique types of molecules in this entry. The entry contains 9427 atoms, of which 4650 are hydrogens and 0 are deuteriums.

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.

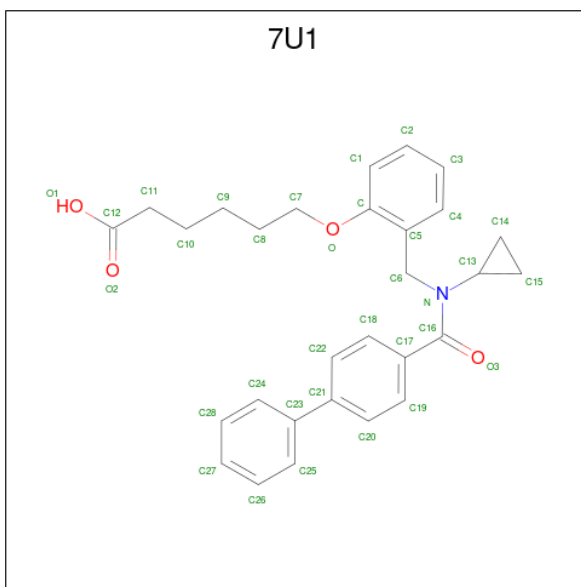
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	267	Total	C	H	N	O	S	0	17	0
			4486	1431	2278	373	393	11			
1	B	262	Total	C	H	N	O	S	0	8	0
			4363	1399	2210	358	385	11			

- Molecule 2 is heptyl beta-D-glucopyranoside (CCD ID: B7G) (formula: C₁₃H₂₆O₆).



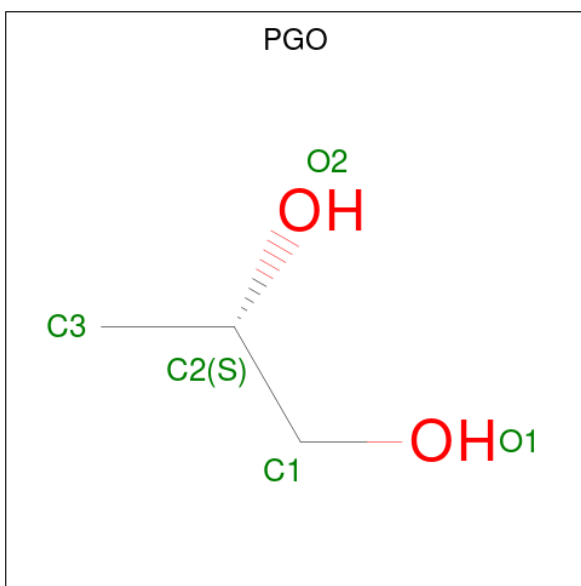
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	H	O	0	0
			45	13	26	6		
2	A	1	Total	C	H	O	0	0
			45	13	26	6		

- Molecule 3 is 6-(2-{[(1,1'-biphenyl)-4-carbonyl](cyclopropyl)amino]methyl}phenoxy)hexanoic acid (CCD ID: 7U1) (formula: C₂₉H₃₁NO₄).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	H	N	O	0	0
			64	29	30	1	4		
3	B	1	Total	C	H	N	O	0	0
			64	29	30	1	4		

- Molecule 4 is S-1,2-PROPANEDIOL (CCD ID: PGO) (formula: $C_3H_8O_2$).



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

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

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C₄H₁₀O₃).



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

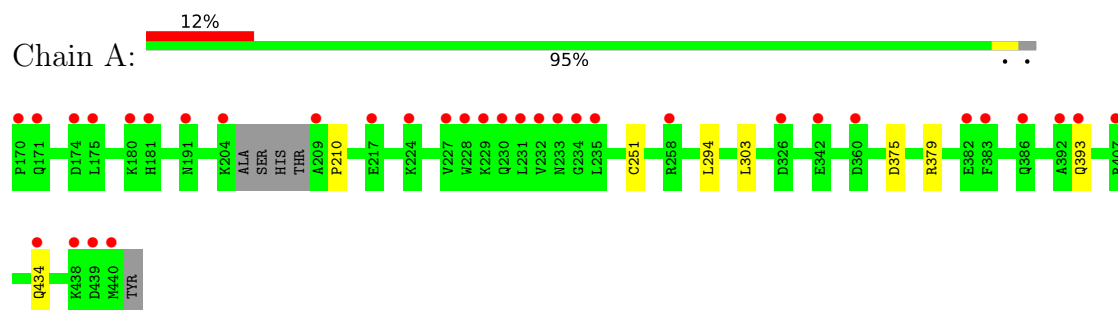
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	154	Total	O	0	0
			154	154		
6	B	124	Total	O	0	0
			124	124		

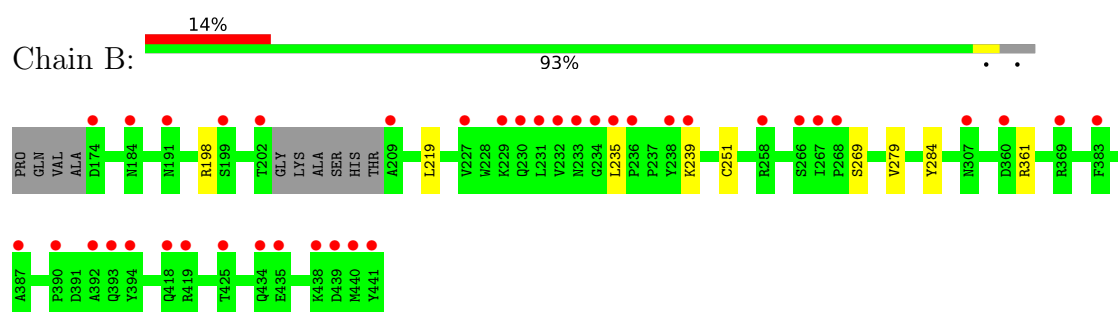
3 Residue-property plots [i](#)

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



- 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	39.56Å 94.81Å 96.61Å 90.00° 98.27° 90.00°	Depositor
Resolution (Å)	42.68 – 1.80 42.68 – 1.80	Depositor EDS
% Data completeness (in resolution range)	98.0 (42.68-1.80) 98.0 (42.68-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.16 (at 1.55Å)	Xtriage
Refinement program	PHENIX 1.9pre_1665	Depositor
R, R_{free}	0.192 , 0.243 0.200 , 0.246	Depositor DCC
R_{free} test set	1672 reflections (1.64%)	wwPDB-VP
Wilson B-factor (Å ²)	20.9	Xtriage
Anisotropy	0.533	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 49.7	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	0.95	EDS
Total number of atoms	9427	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.06% 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: 7U1, CME, PEG, B7G, PGO

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	0.75	0/2318	0.84	0/3131
1	B	0.68	0/2219	0.76	0/2999
All	All	0.72	0/4537	0.80	0/6130

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	2208	2278	2202	6	0
1	B	2153	2210	2171	4	0
2	A	38	52	52	1	0
3	A	34	30	0	0	0
3	B	34	30	0	0	0
4	A	25	40	40	5	0
5	B	7	10	10	0	0
6	A	154	0	0	1	1
6	B	124	0	0	0	1
All	All	4777	4650	4475	11	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 1.

All (11) 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:210:PRO:CG	4:A:505:PGO:H32	2.37	0.54
1:A:210:PRO:HG2	4:A:505:PGO:H32	1.96	0.47
1:A:294:LEU:HA	4:A:504[A]:PGO:H33	1.98	0.45
4:A:506:PGO:O1	6:A:601:HOH:O	2.19	0.41
1:A:375:ASP:O	1:A:379:ARG:HG3	2.21	0.41
1:A:210:PRO:HG3	4:A:505:PGO:H32	2.02	0.41
2:A:503:B7G:O6	1:B:279[B]:VAL:CG2	2.69	0.40
1:B:284:TYR:CB	1:B:361:ARG:HD2	2.52	0.40

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:727:HOH:O	6:B:620:HOH:O[2_547]	2.15	0.05

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	279/272 (103%)	274 (98%)	5 (2%)	0	100	100
1	B	265/272 (97%)	261 (98%)	4 (2%)	0	100	100
All	All	544/544 (100%)	535 (98%)	9 (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	248/239 (104%)	246 (99%)	2 (1%)	73	70
1	B	239/239 (100%)	235 (98%)	4 (2%)	53	45
All	All	487/478 (102%)	481 (99%)	6 (1%)	61	57

All (6) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	303	LEU
1	A	393	GLN
1	B	198	ARG
1	B	235	LEU
1	B	239	LYS
1	B	269	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	374	GLN
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](#)

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	0.95	0	6,9,11	2.37	1 (16%)
1	CME	A	251	1	8,9,10	0.91	0	6,9,11	2.07	1 (16%)

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	-	3/5/8/10	-
1	CME	A	251	1	-	2/5/8/10	-

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	251	CME	CB-SG-SD	5.26	117.47	103.86
1	A	251	CME	CB-SG-SD	4.26	114.88	103.86

There are no chirality outliers.

All (5) torsion outliers are listed below:

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

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

10 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
2	B7G	A	503	-	19,19,19	0.84	0	24,24,24	1.04	1 (4%)
2	B7G	A	501	-	19,19,19	0.83	1 (5%)	24,24,24	0.96	1 (4%)
4	PGO	A	505	-	4,4,4	0.60	0	4,4,4	0.65	0
4	PGO	A	504[A]	-	4,4,4	0.57	0	4,4,4	0.77	0
3	7U1	A	502	-	37,37,37	0.79	0	49,49,49	1.76	5 (10%)
4	PGO	A	504[B]	-	4,4,4	0.59	0	4,4,4	0.67	0
4	PGO	A	507	-	4,4,4	0.59	0	4,4,4	0.80	0
5	PEG	B	502	-	6,6,6	0.54	0	5,5,5	0.30	0
3	7U1	B	501	-	37,37,37	0.79	0	49,49,49	1.50	6 (12%)
4	PGO	A	506	-	4,4,4	0.62	0	4,4,4	0.60	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
2	B7G	A	503	-	-	1/10/30/30	0/1/1/1
2	B7G	A	501	-	-	2/10/30/30	0/1/1/1
4	PGO	A	505	-	-	2/2/2/2	-
4	PGO	A	504[A]	-	-	2/2/2/2	-
3	7U1	A	502	-	-	6/29/31/31	0/4/4/4
4	PGO	A	504[B]	-	-	2/2/2/2	-
4	PGO	A	507	-	-	0/2/2/2	-
5	PEG	B	502	-	-	1/4/4/4	-
3	7U1	B	501	-	-	5/29/31/31	0/4/4/4
4	PGO	A	506	-	-	2/2/2/2	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	B7G	O5-C1	2.04	1.47	1.41

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	502	7U1	C15-C13-N	-8.37	108.05	118.46
3	B	501	7U1	C15-C13-N	-5.35	111.81	118.46
3	B	501	7U1	C6-N-C16	3.87	127.73	116.97
3	A	502	7U1	C6-N-C16	3.41	126.44	116.97
3	A	502	7U1	C17-C16-N	3.11	124.86	118.72
3	B	501	7U1	C17-C16-N	3.09	124.83	118.72
3	B	501	7U1	C13-N-C16	-2.83	114.66	123.21
3	A	502	7U1	C6-N-C13	-2.77	115.60	118.34
3	B	501	7U1	O3-C16-C17	-2.58	115.18	120.29
3	A	502	7U1	O3-C16-C17	-2.56	115.22	120.29
3	B	501	7U1	C22-C18-C17	-2.30	118.34	120.80
2	A	503	B7G	C6-C5-C4	-2.04	108.01	113.02
2	A	501	B7G	O1-C1-C2	2.01	111.32	108.27

There are no chirality outliers.

All (23) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	502	7U1	C15-C13-N-C6
3	A	502	7U1	C15-C13-N-C16
3	B	501	7U1	C14-C13-N-C6
3	B	501	7U1	C14-C13-N-C16
4	A	504[B]	PGO	O1-C1-C2-O2
4	A	505	PGO	O1-C1-C2-C3
4	A	505	PGO	O1-C1-C2-O2
4	A	506	PGO	O1-C1-C2-O2
5	B	502	PEG	O1-C1-C2-O2
4	A	504[A]	PGO	O1-C1-C2-C3
4	A	504[B]	PGO	O1-C1-C2-C3
4	A	506	PGO	O1-C1-C2-C3
2	A	501	B7G	C7-C8-C9-C10
4	A	504[A]	PGO	O1-C1-C2-O2
3	B	501	7U1	C15-C13-N-C16
3	A	502	7U1	C10-C11-C12-O1
3	A	502	7U1	C10-C11-C12-O2
3	B	501	7U1	C10-C11-C12-O2
3	B	501	7U1	C10-C11-C12-O1

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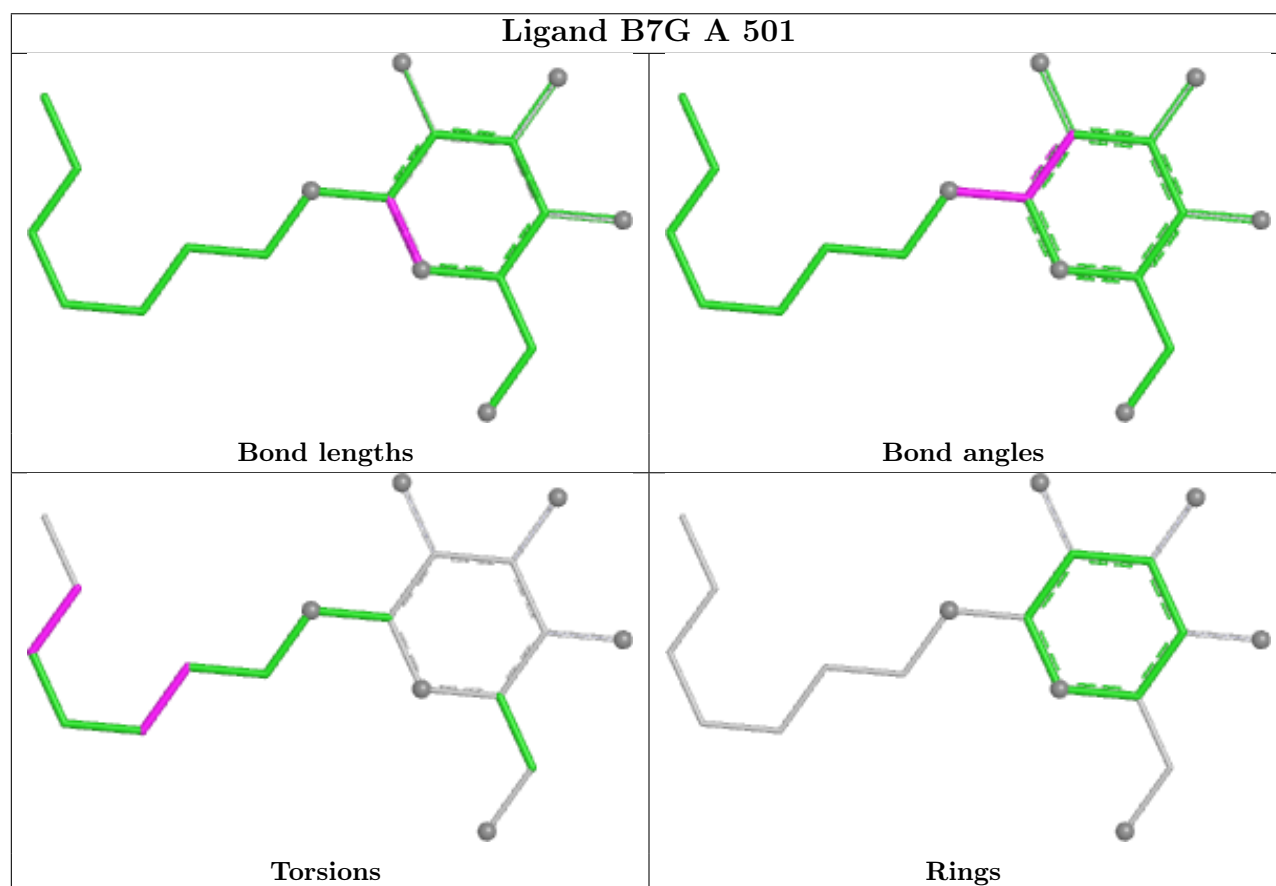
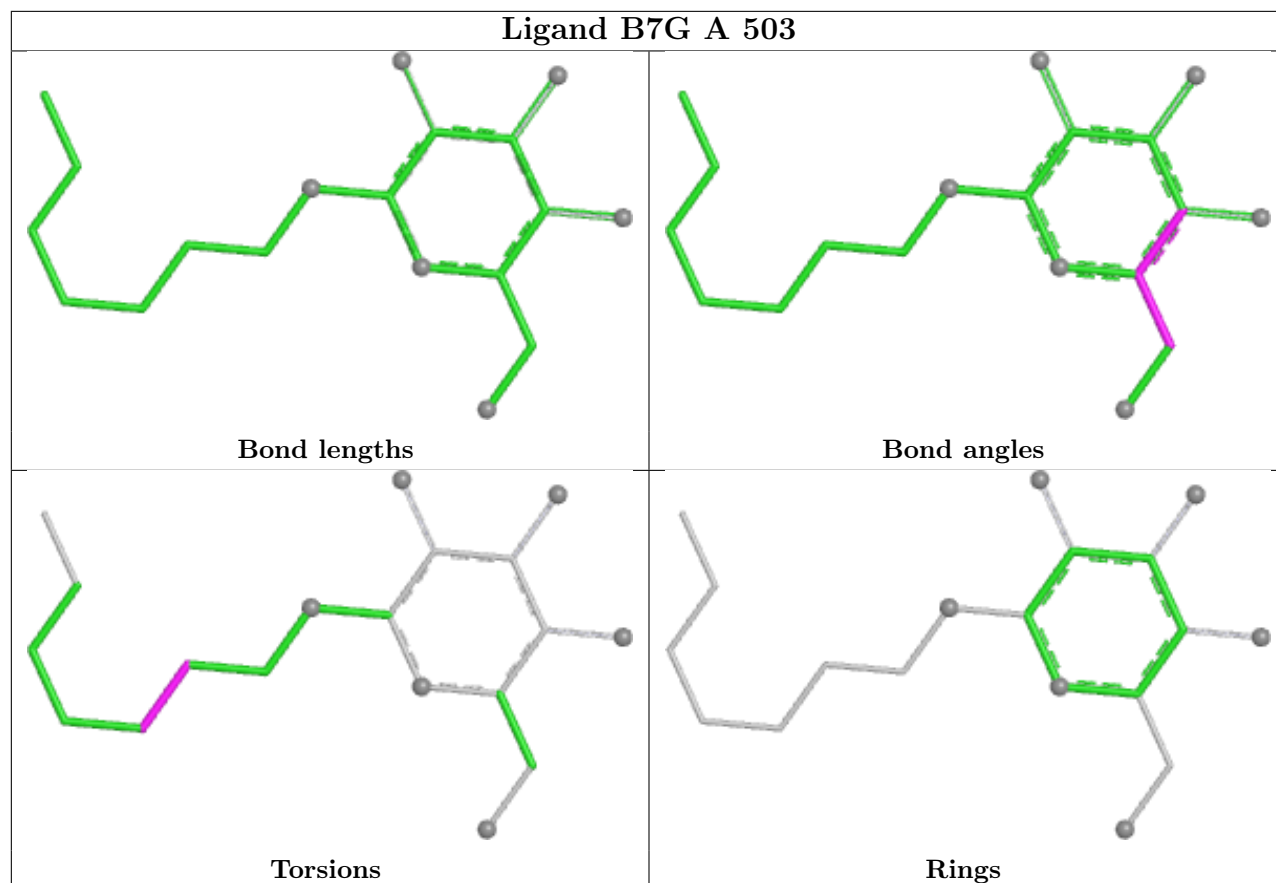
Mol	Chain	Res	Type	Atoms
2	A	501	B7G	C10-C11-C12-C13
2	A	503	B7G	C7-C8-C9-C10
3	A	502	7U1	C14-C13-N-C16
3	A	502	7U1	C9-C10-C11-C12

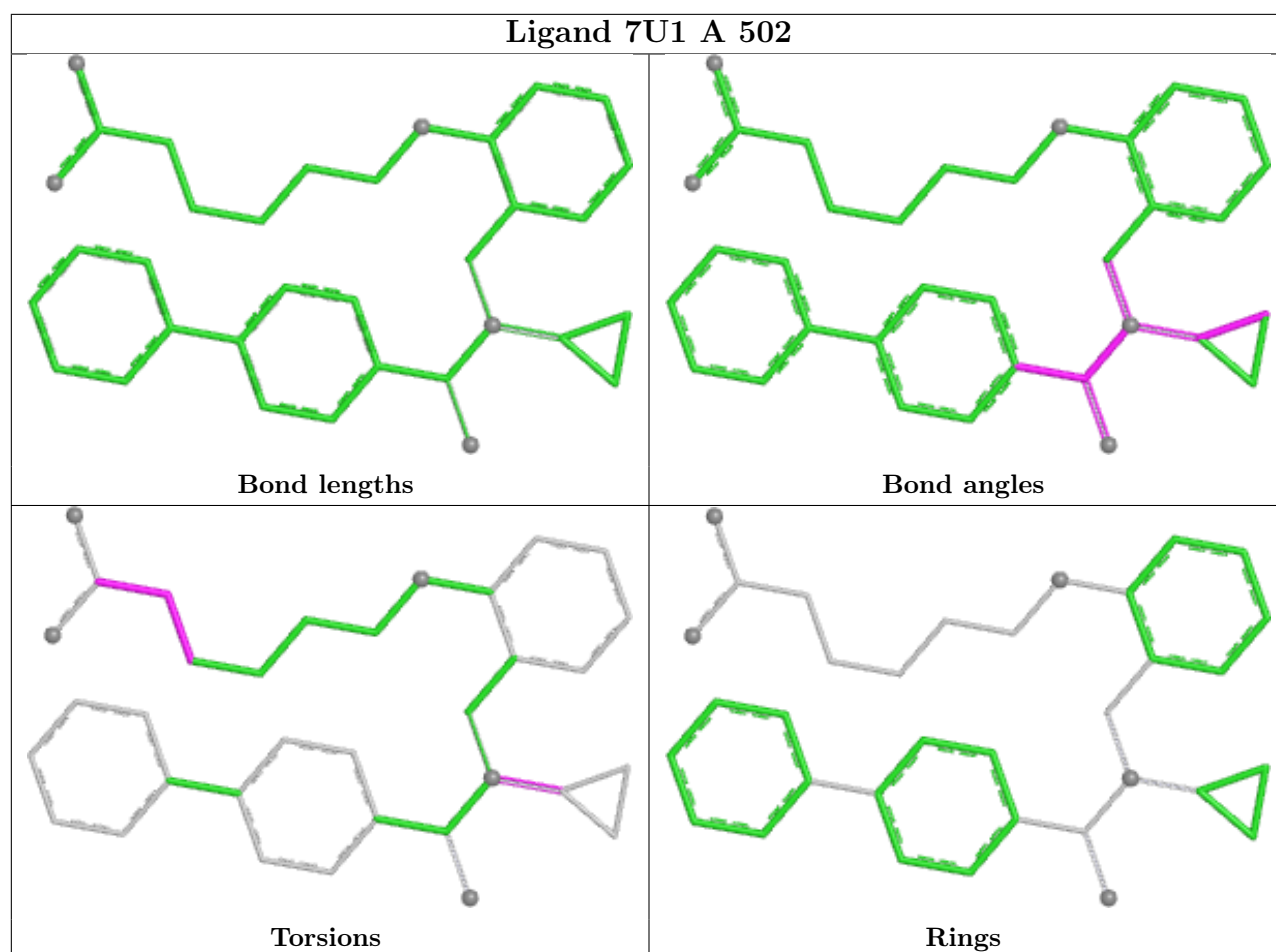
There are no ring outliers.

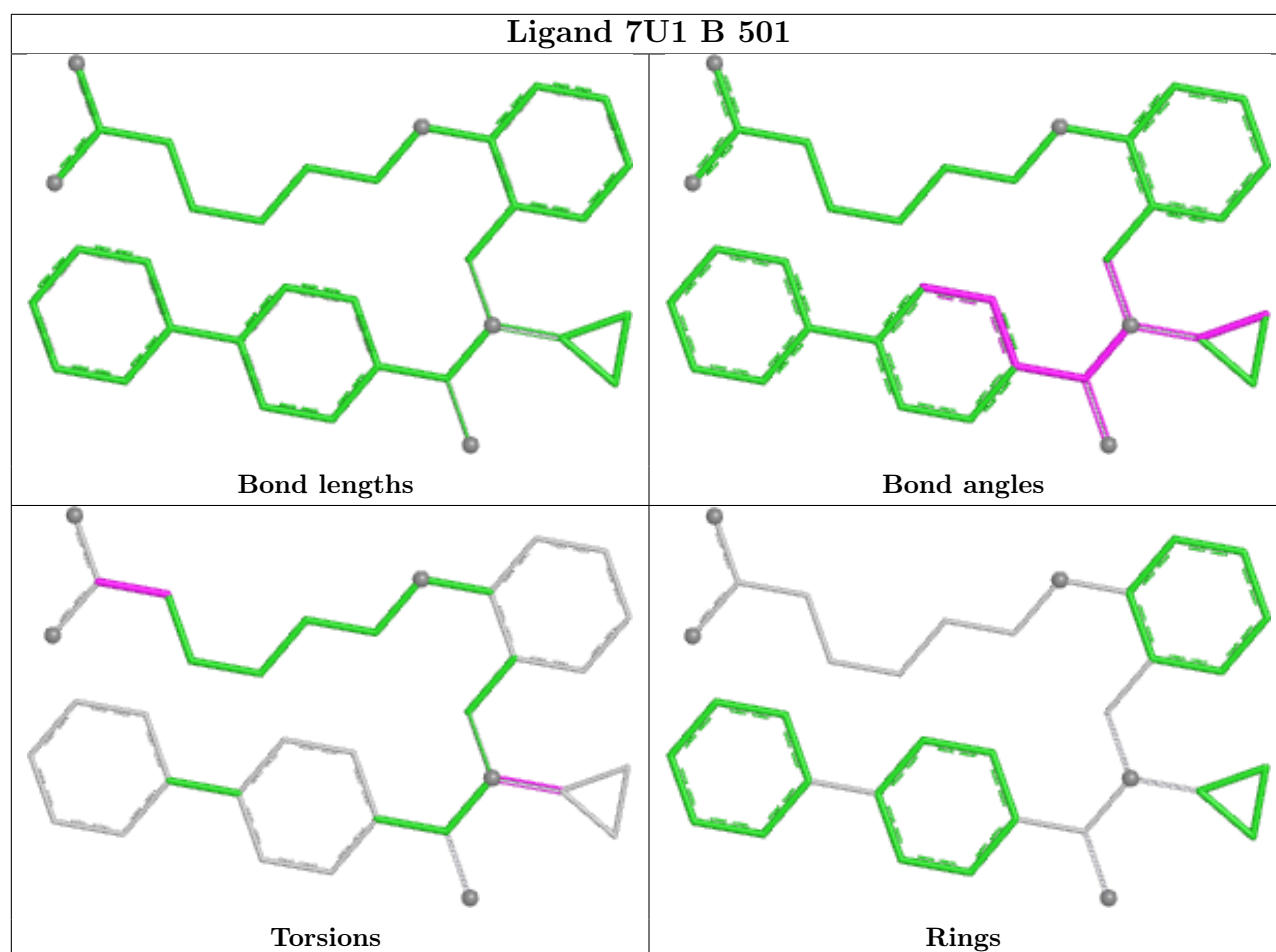
4 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	503	B7G	1	0
4	A	505	PGO	3	0
4	A	504[A]	PGO	1	0
4	A	506	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 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.







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	266/272 (97%)	0.42	34 (12%) 7 6	9, 30, 77, 99	7 (2%)
1	B	261/272 (95%)	0.82	39 (14%) 5 4	12, 38, 84, 112	4 (1%)
All	All	527/544 (96%)	0.62	73 (13%) 6 5	9, 34, 79, 112	11 (2%)

All (73) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	441	TYR	5.9
1	B	232	VAL	5.7
1	B	268	PRO	5.2
1	B	235	LEU	4.8
1	A	232	VAL	4.6
1	B	418	GLN	4.5
1	B	191	ASN	4.4
1	A	170	PRO	4.3
1	B	439	ASP	3.9
1	A	171	GLN	3.9
1	B	393	GLN	3.9
1	B	236	PRO	3.8
1	B	229	LYS	3.7
1	A	233	ASN	3.7
1	A	439	ASP	3.6
1	B	231	LEU	3.6
1	A	234	GLY	3.6
1	B	202	THR	3.5
1	B	234	GLY	3.4
1	B	383	PHE	3.4
1	B	419	ARG	3.4
1	A	440	MET	3.4
1	A	393	GLN	3.4
1	B	394	TYR	3.3

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Mol	Chain	Res	Type	RSRZ
1	A	180	LYS	3.2
1	B	239	LYS	3.2
1	B	238	TYR	3.2
1	A	191	ASN	3.2
1	B	233	ASN	3.1
1	A	360	ASP	3.1
1	A	434	GLN	3.1
1	A	224	LYS	3.1
1	A	209	ALA	3.0
1	B	266	SER	3.0
1	A	174	ASP	3.0
1	B	209	ALA	3.0
1	B	307	ASN	3.0
1	B	267	ILE	3.0
1	A	204	LYS	2.9
1	A	392	ALA	2.9
1	B	435	GLU	2.9
1	B	392	ALA	2.9
1	B	434	GLN	2.8
1	B	174	ASP	2.8
1	B	369	ARG	2.8
1	B	360	ASP	2.8
1	A	227	VAL	2.7
1	A	258	ARG	2.7
1	B	184	ASN	2.6
1	B	440	MET	2.6
1	A	326	ASP	2.6
1	B	227	VAL	2.6
1	A	231	LEU	2.5
1	A	438	LYS	2.5
1	B	387	ALA	2.5
1	A	175	LEU	2.4
1	A	342	GLU	2.4
1	B	438	LYS	2.4
1	A	229	LYS	2.4
1	B	425	THR	2.3
1	A	217	GLU	2.2
1	B	390	PRO	2.2
1	B	230	GLN	2.2
1	A	383	PHE	2.2
1	A	230	GLN	2.2
1	A	235	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	181[A]	HIS	2.2
1	B	199	SER	2.2
1	A	382	GLU	2.1
1	B	258	ARG	2.1
1	A	228	TRP	2.1
1	A	407	ARG	2.1
1	A	386	GLN	2.0

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	B	251	10/11	0.88	0.21	22,52,128,153	0
1	CME	A	251	10/11	0.90	0.19	14,54,110,121	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

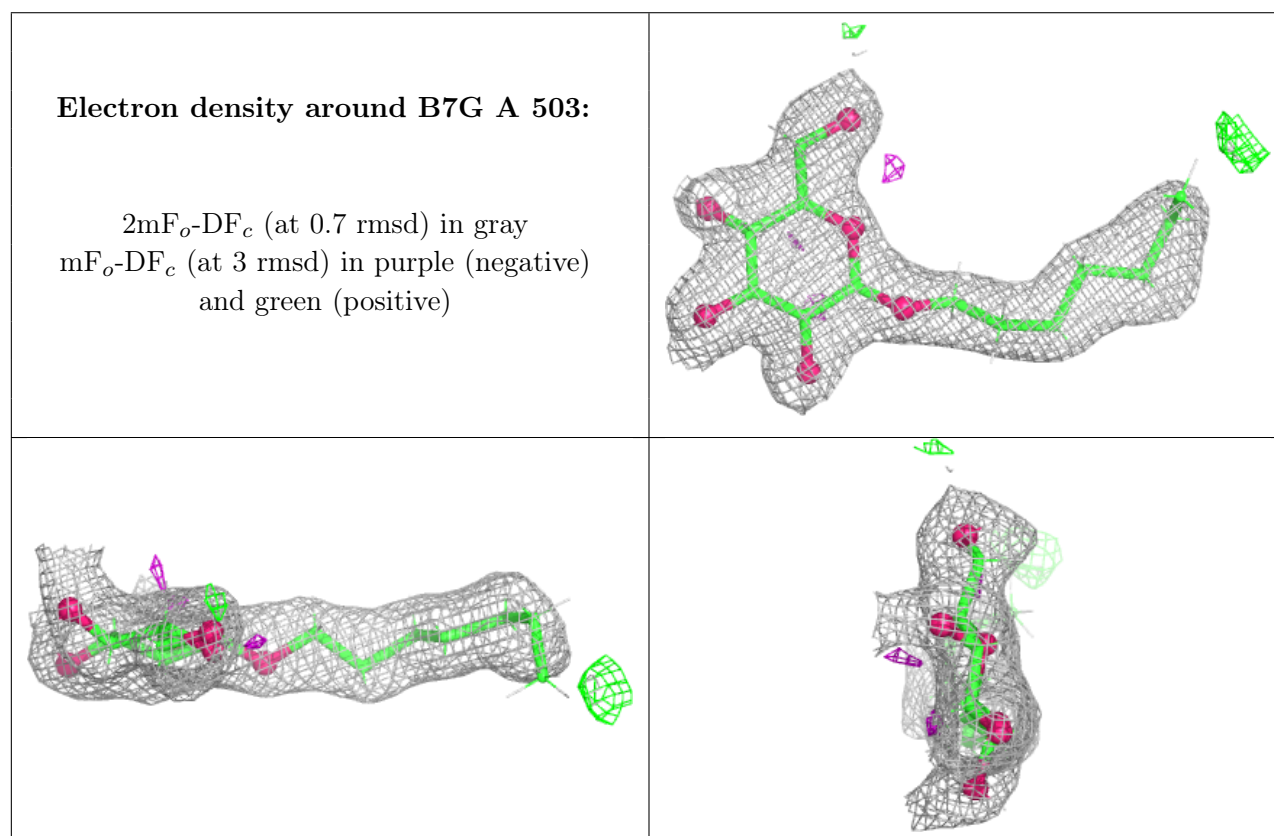
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	PGO	A	506	5/5	0.70	0.31	72,86,95,96	0
4	PGO	A	507	5/5	0.72	0.24	63,75,88,89	0
4	PGO	A	505	5/5	0.81	0.22	33,64,85,86	0
2	B7G	A	503	19/19	0.89	0.13	32,54,74,75	0
2	B7G	A	501	19/19	0.90	0.16	37,55,83,95	0
4	PGO	A	504[A]	5/5	0.90	0.42	81,97,107,108	13
4	PGO	A	504[B]	5/5	0.90	0.42	82,99,104,108	13
5	PEG	B	502	7/7	0.91	0.14	50,60,73,73	0
3	7U1	B	501	34/34	0.94	0.11	18,30,91,109	0

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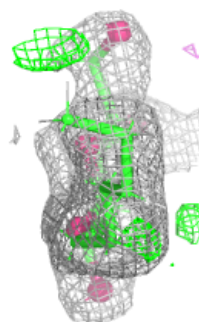
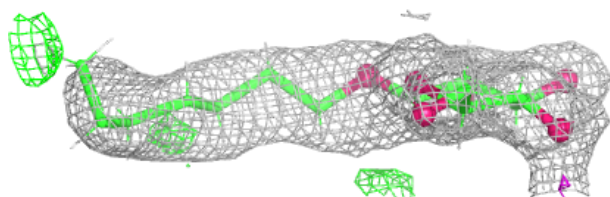
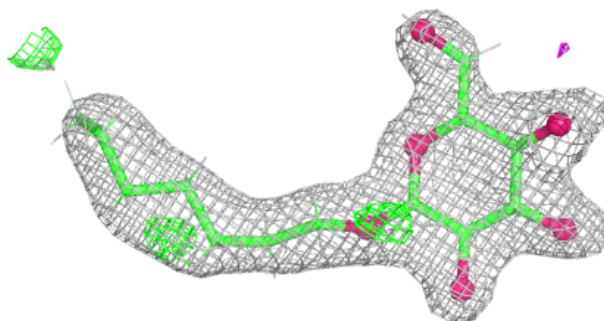
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	7U1	A	502	34/34	0.95	0.08	11,22,36,40	0

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.

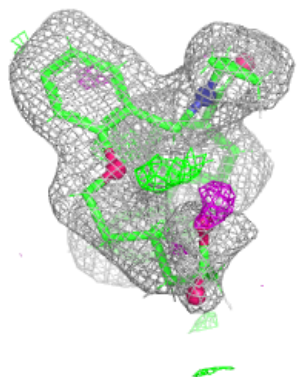
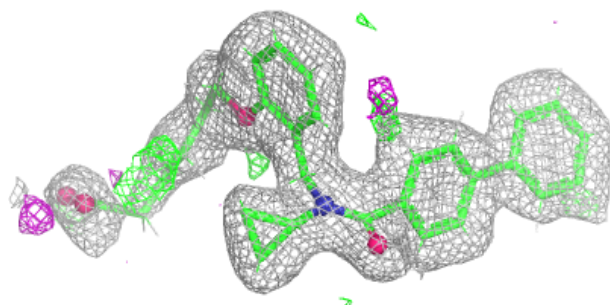
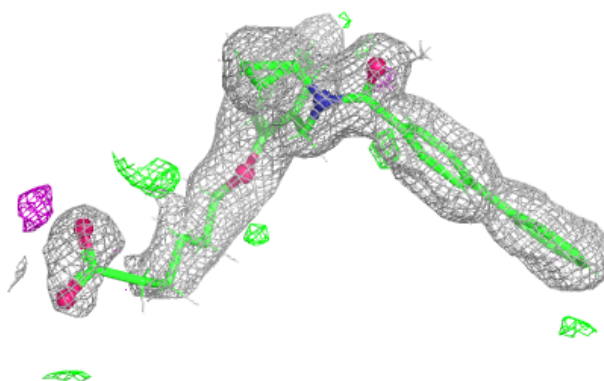


Electron density around B7G A 501:

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

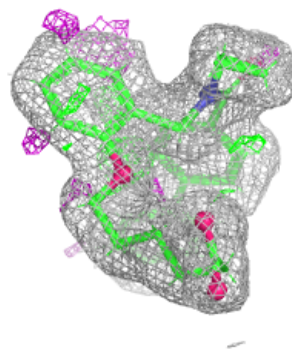
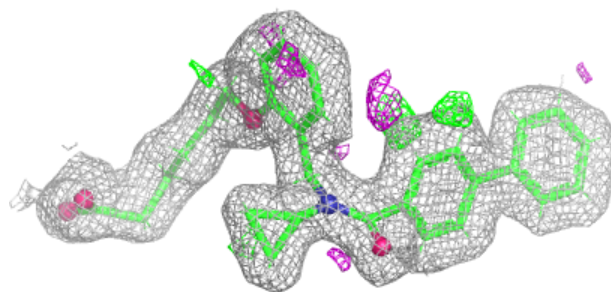
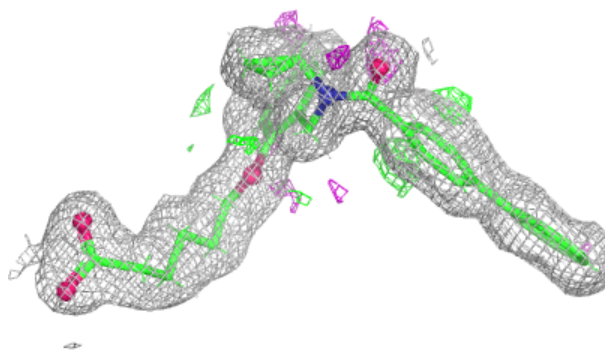
**Electron density around 7U1 B 501:**

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



Electron density around 7U1 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)



6.5 Other polymers [i](#)

There are no such residues in this entry.