



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 10:40 AM UTC

PDB ID : 5U3S / pdb_00005u3s
Title : Human PPARdelta ligand-binding domain in complexed with specific agonist 3
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Deposited on : 2016-12-03
Resolution : 2.00 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

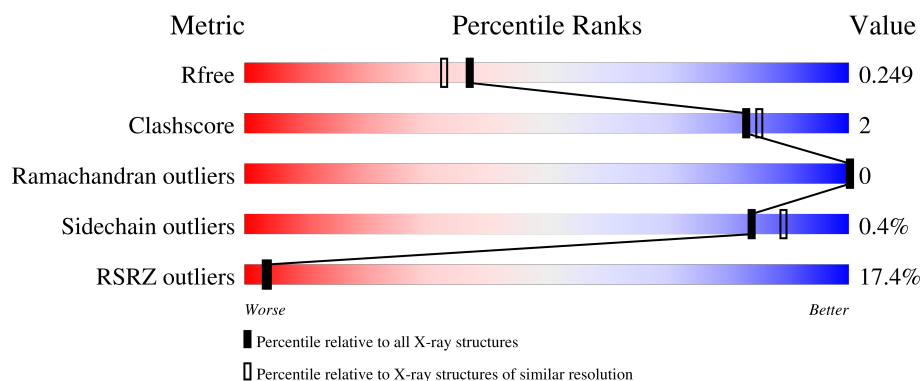
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (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 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	15% 92% 7%
1	B	272	19% 90% 7% .

2 Entry composition [i](#)

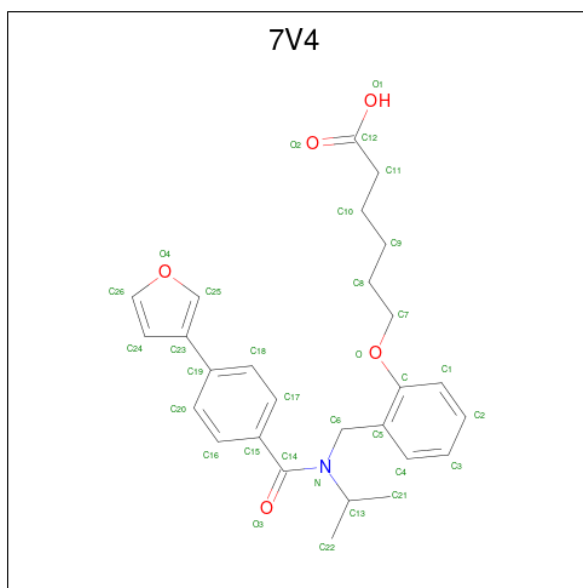
There are 7 unique types of molecules in this entry. The entry contains 9807 atoms, of which 4827 are hydrogens and 0 are deuteriums.

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.

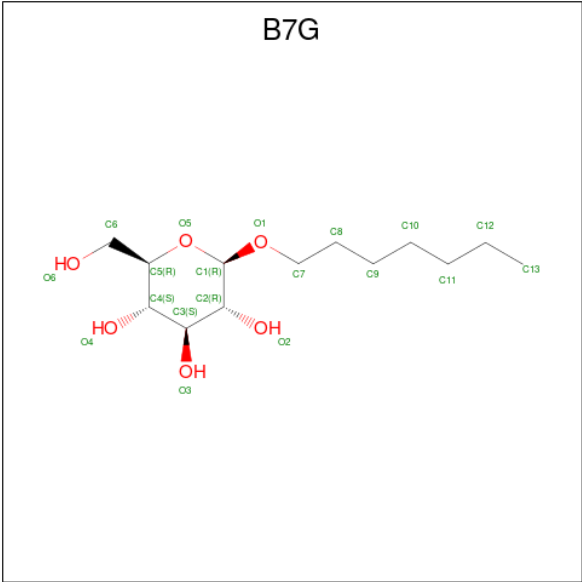
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	271	Total	C	H	N	O	S	0	27	0
			4763	1526	2412	397	417	11			
1	B	263	Total	C	H	N	O	S	0	12	0
			4411	1410	2233	367	391	10			

- Molecule 2 is 6-[2-({[4-(furan-3-yl)benzene-1-carbonyl](propan-2-yl)amino}methyl)phenoxy]hexanoic acid (CCD ID: 7V4) (formula: C₂₇H₃₁NO₅).



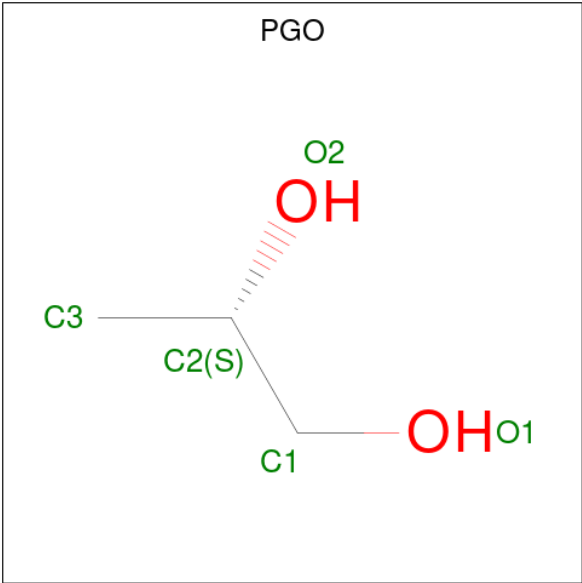
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	H	N	O	0	0
			63	27	30	1	5		
2	B	1	Total	C	H	N	O	0	0
			63	27	30	1	5		

- Molecule 3 is heptyl beta-D-glucopyranoside (CCD ID: B7G) (formula: C₁₃H₂₆O₆).



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

- Molecule 4 is S-1,2-PROPANEDIOL (CCD ID: PGO) (formula: C₃H₈O₂).



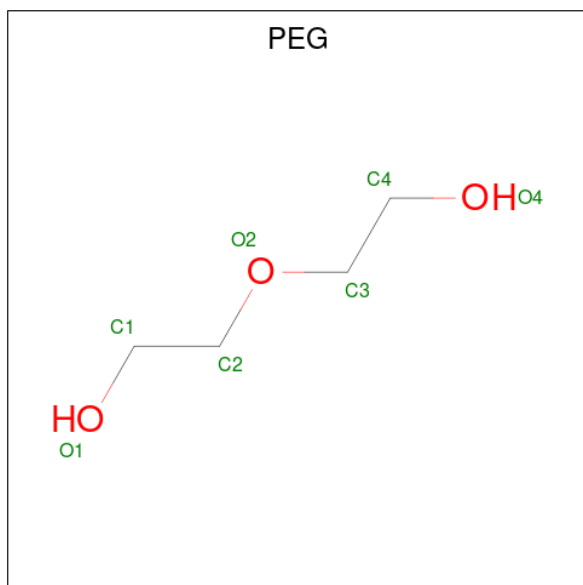
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	O	0	0
			13	3	8	2		
4	A	1	Total	C	H	O	0	0
			13	3	8	2		

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

- Molecule 5 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: $C_4H_{10}O_3$).



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

- Molecule 6 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	1	Total	K	0	0
			1	1		
6	B	1	Total	K	0	0
			1	1		

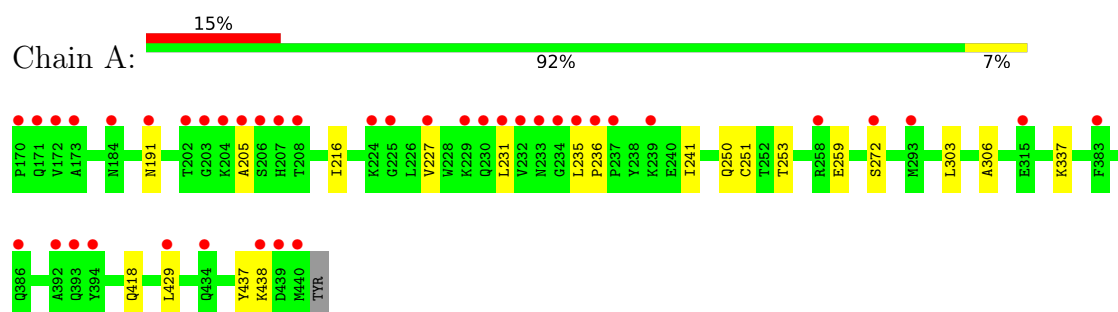
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	182	Total 182	O 182	0	0
7	B	117	Total 117	O 117	0	0

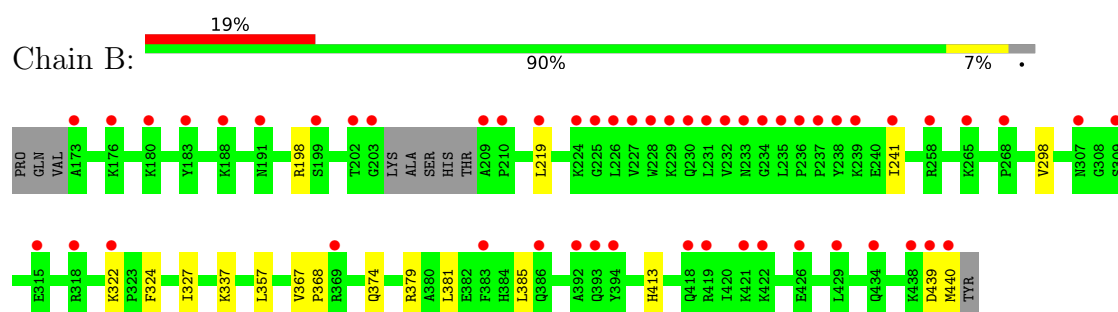
3 Residue-property plots [i](#)

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



- 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	39.55Å 94.19Å 96.32Å 90.00° 98.08° 90.00°	Depositor
Resolution (Å)	47.68 – 2.00 47.68 – 2.00	Depositor EDS
% Data completeness (in resolution range)	97.8 (47.68-2.00) 98.7 (47.68-2.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.47 (at 1.86Å)	Xtriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.190 , 0.246 0.193 , 0.249	Depositor DCC
R_{free} test set	1918 reflections (3.22%)	wwPDB-VP
Wilson B-factor (Å ²)	16.8	Xtriage
Anisotropy	0.427	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 53.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	9807	wwPDB-VP
Average B, all atoms (Å ²)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.60% 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: PEG, B7G, K, PGO, 7V4

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	0.57	0/2458	0.67	0/3326
1	B	0.53	0/2262	0.64	1/3054 (0.0%)
All	All	0.55	0/4720	0.65	1/6380 (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	1

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	322	LYS	N-CA-C	-5.15	103.28	109.83

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	205	ALA	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	2351	2412	2352	12	0
1	B	2178	2233	2192	11	0
2	A	33	30	0	1	0
2	B	33	30	0	1	0
3	A	19	26	26	0	0
3	B	19	26	26	0	0
4	A	15	24	24	2	0
4	B	10	16	16	0	0
5	A	7	10	10	0	0
5	B	14	20	20	0	0
6	A	1	0	0	0	0
6	B	1	0	0	0	0
7	A	182	0	0	3	0
7	B	117	0	0	2	0
All	All	4980	4827	4666	23	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 2.

All (23) 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:250:GLN:OE1	1:A:429[B]:LEU:HD12	2.00	0.61
1:B:337:LYS:NZ	7:B:602:HOH:O	2.34	0.59
1:A:337:LYS:NZ	7:A:605:HOH:O	2.45	0.50
1:A:251:CYS:SG	4:A:506:PGO:H31	2.54	0.46
1:A:437:TYR:O	1:A:438:LYS:C	2.60	0.45
1:B:379:ARG:NH1	7:B:607:HOH:O	2.49	0.45
1:B:413:HIS:NE2	2:B:502:7V4:O2	2.37	0.45
1:B:219:LEU:CD2	1:B:241:ILE:HD11	2.46	0.45
1:B:439:ASP:O	1:B:440:MET:C	2.60	0.45
1:B:198:ARG:NH2	1:B:298:VAL:O	2.30	0.44
1:A:191:ASN:HB3	1:A:259:GLU:OE2	2.18	0.44
1:A:236[B]:PRO:HD3	4:A:506:PGO:H2	2.00	0.43
1:A:253:THR:HG21	2:A:501:7V4:O1	2.19	0.42
1:A:227[B]:VAL:CG1	1:A:306:ALA:CB	2.98	0.42
1:B:381:LEU:O	1:B:385:LEU:HG	2.20	0.42
1:A:216:ILE:CD1	1:A:241:ILE:HD13	2.50	0.42
1:A:235[B]:LEU:CD2	1:A:251:CYS:SG	3.08	0.41
1:B:367:VAL:HB	1:B:368:PRO:HD3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:357:LEU:O	1:B:374:GLN:HB2	2.21	0.41
1:A:272:SER:HB2	7:A:645:HOH:O	2.19	0.41
1:B:219:LEU:HD23	1:B:241:ILE:CD1	2.50	0.41
1:B:324:PHE:O	1:B:327:ILE:HG22	2.20	0.41
1:A:418:GLN:HG2	7:A:624:HOH:O	2.20	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	296/272 (109%)	283 (96%)	13 (4%)	0	100	100
1	B	271/272 (100%)	269 (99%)	2 (1%)	0	100	100
All	All	567/544 (104%)	552 (97%)	15 (3%)	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	264/240 (110%)	261 (99%)	3 (1%)	65	73
1	B	243/240 (101%)	243 (100%)	0	100	100
All	All	507/480 (106%)	504 (99%)	3 (1%)	84	85

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

Mol	Chain	Res	Type
1	A	231[A]	LEU
1	A	231[B]	LEU
1	A	303	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	278	GLN
1	B	184	ASN
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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 14 ligands modelled in this entry, 2 are monoatomic - leaving 12 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	$\# Z > 2$
4	PGO	A	506	-	4,4,4	0.59	0	4,4,4	0.64	0
4	PGO	A	504	-	4,4,4	0.49	0	4,4,4	1.26	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	PEG	B	505	-	6,6,6	0.54	0	5,5,5	0.44	0
3	B7G	B	501	-	19,19,19	0.89	0	24,24,24	1.37	4 (16%)
5	PEG	B	504	-	6,6,6	0.61	0	5,5,5	0.52	0
3	B7G	A	502	-	19,19,19	0.81	0	24,24,24	0.98	1 (4%)
2	7V4	A	501	-	34,35,35	1.02	2 (5%)	45,46,46	1.38	6 (13%)
4	PGO	B	506	-	4,4,4	0.57	0	4,4,4	0.72	0
2	7V4	B	502	-	34,35,35	0.95	2 (5%)	45,46,46	1.49	9 (20%)
5	PEG	A	505	-	6,6,6	0.64	0	5,5,5	0.58	0
4	PGO	A	503	-	4,4,4	0.40	0	4,4,4	1.25	0
4	PGO	B	503	-	4,4,4	0.58	0	4,4,4	1.10	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
4	PGO	A	506	-	-	2/2/2/2	-
4	PGO	A	504	-	-	0/2/2/2	-
5	PEG	B	505	-	-	0/4/4/4	-
3	B7G	B	501	-	-	4/10/30/30	0/1/1/1
5	PEG	B	504	-	-	0/4/4/4	-
3	B7G	A	502	-	-	0/10/30/30	0/1/1/1
2	7V4	A	501	-	-	8/29/29/29	0/3/3/3
4	PGO	B	506	-	-	2/2/2/2	-
2	7V4	B	502	-	-	4/29/29/29	0/3/3/3
5	PEG	A	505	-	-	2/4/4/4	-
4	PGO	A	503	-	-	2/2/2/2	-
4	PGO	B	503	-	-	2/2/2/2	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	7V4	C24-C26	2.37	1.40	1.34
2	B	502	7V4	O1-C12	-2.22	1.23	1.30
2	A	501	7V4	O1-C12	-2.20	1.23	1.30
2	B	502	7V4	C24-C26	2.19	1.39	1.34

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	502	7V4	C22-C13-N	4.14	116.97	111.00
2	B	502	7V4	C21-C13-N	-4.03	105.18	111.00
2	A	501	7V4	C6-N-C14	3.91	127.84	116.97
2	B	502	7V4	C6-N-C14	3.49	126.69	116.97
3	B	501	B7G	O5-C5-C4	3.33	115.70	109.70
2	B	502	7V4	O1-C12-C11	3.20	124.12	114.00
3	B	501	B7G	C6-C5-C4	-2.89	105.93	113.02
2	A	501	7V4	O3-C14-C15	-2.87	114.60	120.29
2	A	501	7V4	C15-C14-N	2.71	124.08	118.72
3	B	501	B7G	O1-C1-C2	2.61	112.23	108.27
2	A	501	7V4	C22-C13-N	2.44	114.52	111.00
2	B	502	7V4	C7-O-C	2.40	123.49	117.69
2	A	501	7V4	C7-O-C	2.36	123.40	117.69
2	B	502	7V4	C15-C14-N	2.36	123.38	118.72
3	A	502	B7G	O5-C5-C4	2.26	113.77	109.70
2	A	501	7V4	O1-C12-C11	2.24	121.08	114.00
2	B	502	7V4	C9-C10-C11	2.17	121.10	113.13
2	B	502	7V4	O2-C12-C11	-2.14	116.31	123.09
2	B	502	7V4	O3-C14-C15	-2.08	116.16	120.29
3	B	501	B7G	O6-C6-C5	-2.05	104.36	111.33

There are no chirality outliers.

All (26) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	506	PGO	O1-C1-C2-C3
4	A	506	PGO	O1-C1-C2-O2
3	B	501	B7G	O1-C7-C8-C9
2	B	502	7V4	C9-C10-C11-C12
2	A	501	7V4	C9-C10-C11-C12
2	B	502	7V4	C11-C10-C9-C8
3	B	501	B7G	C11-C10-C9-C8
3	B	501	B7G	C9-C10-C11-C12
4	B	503	PGO	O1-C1-C2-C3
5	A	505	PEG	C1-C2-O2-C3
5	A	505	PEG	O1-C1-C2-O2
3	B	501	B7G	C7-C8-C9-C10
4	A	503	PGO	O1-C1-C2-O2
4	B	503	PGO	O1-C1-C2-O2
4	B	506	PGO	O1-C1-C2-O2
2	A	501	7V4	C11-C10-C9-C8
2	A	501	7V4	O-C7-C8-C9
2	A	501	7V4	C10-C11-C12-O2

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Mol	Chain	Res	Type	Atoms
2	A	501	7V4	C10-C11-C12-O1
4	A	503	PGO	O1-C1-C2-C3
4	B	506	PGO	O1-C1-C2-C3
2	A	501	7V4	C22-C13-N-C6
2	B	502	7V4	C10-C11-C12-O2
2	B	502	7V4	C10-C11-C12-O1
2	A	501	7V4	C22-C13-N-C14
2	A	501	7V4	C21-C13-N-C6

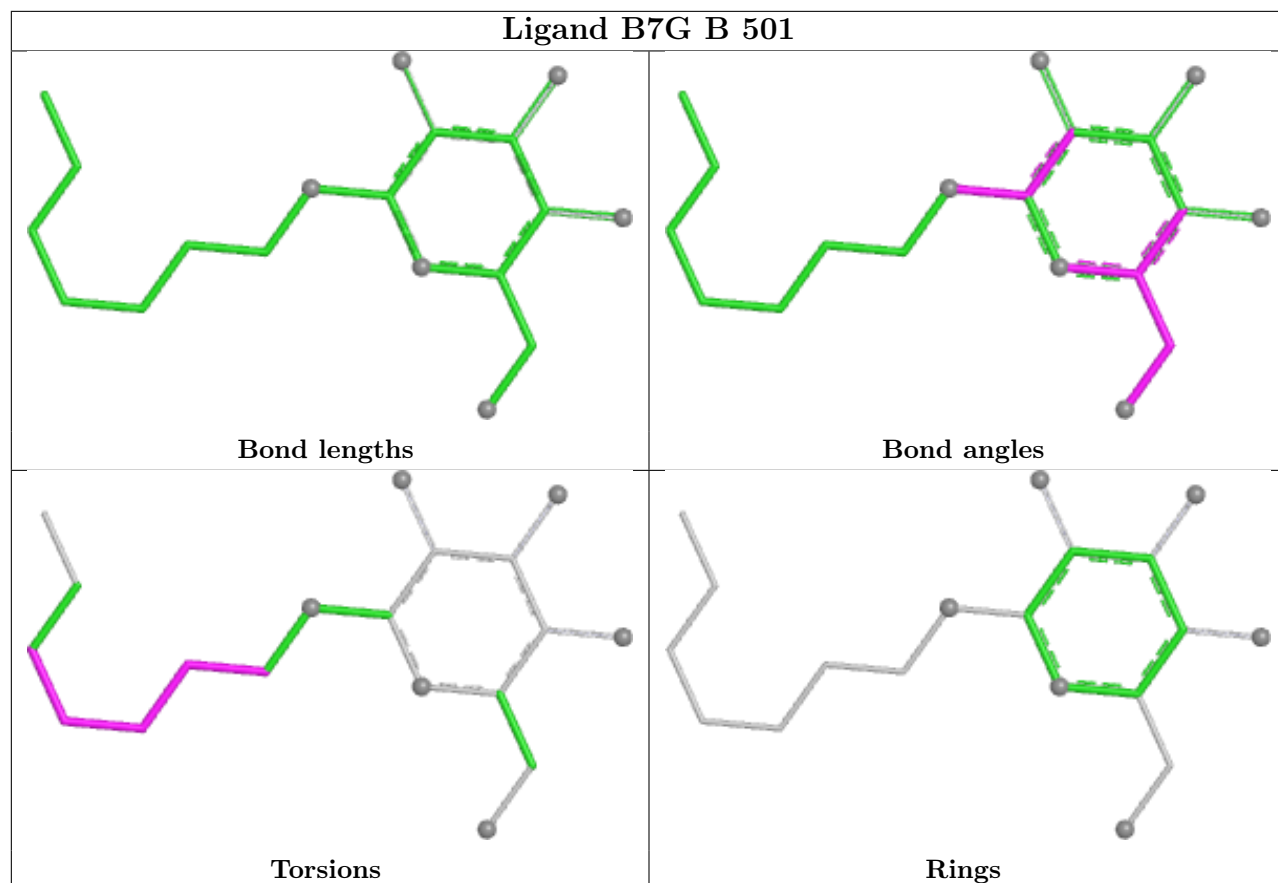
There are no ring outliers.

3 monomers are involved in 4 short contacts:

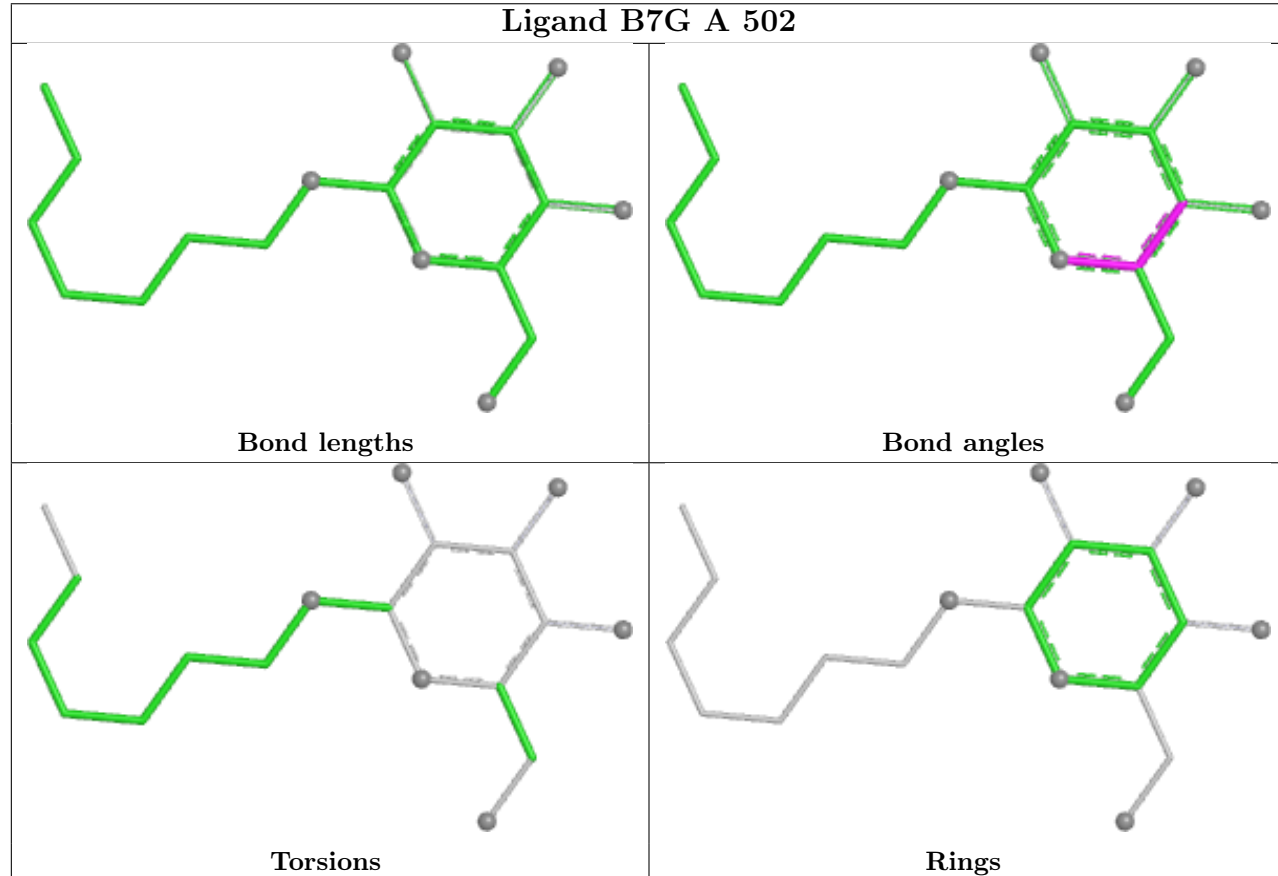
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	506	PGO	2	0
2	A	501	7V4	1	0
2	B	502	7V4	1	0

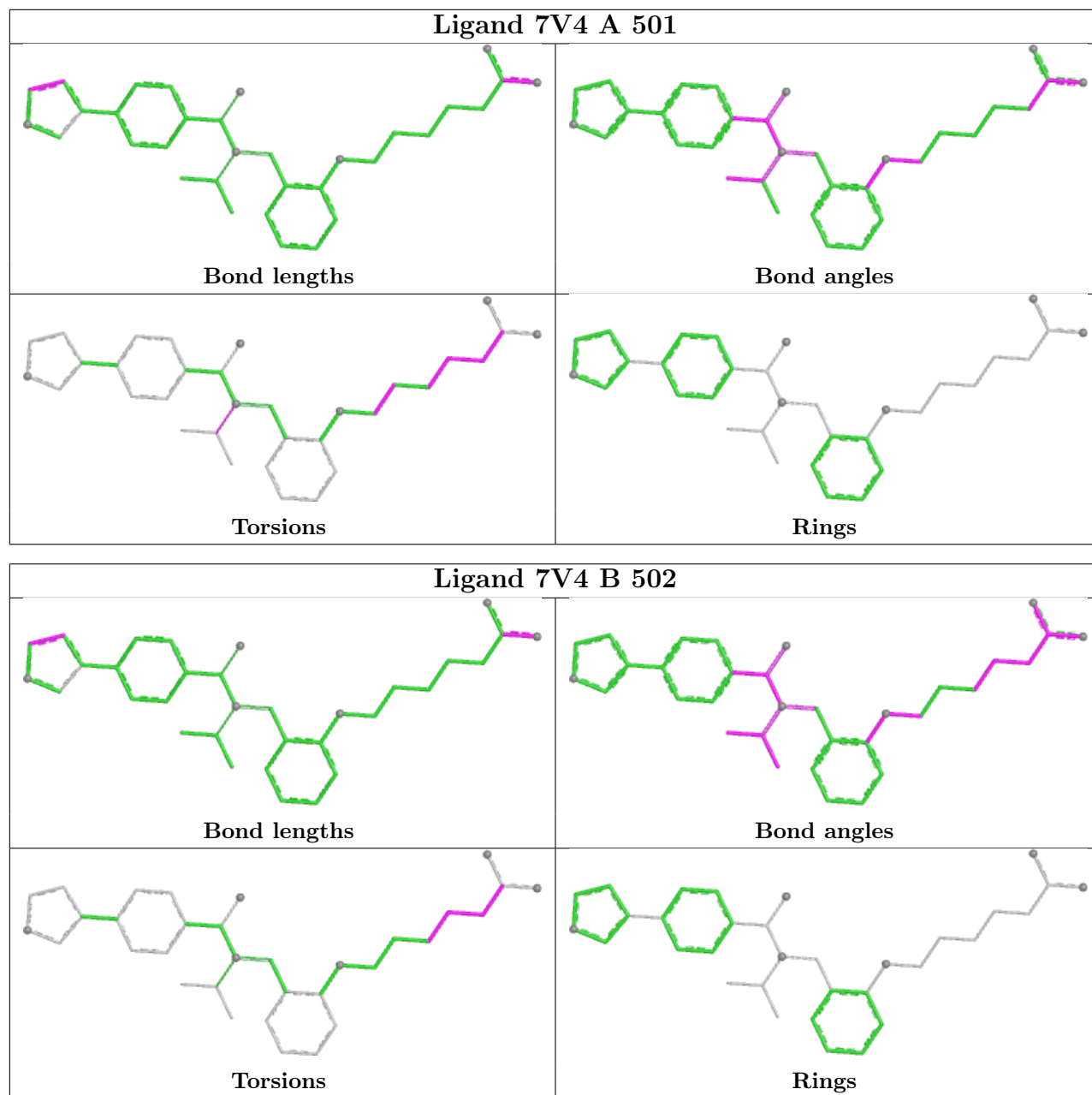
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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 B7G A 502





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	271/272 (99%)	0.78	40 (14%) 5 5	15, 30, 82, 171	21 (7%)
1	B	263/272 (96%)	1.05	53 (20%) 3 2	14, 37, 99, 164	7 (2%)
All	All	534/544 (98%)	0.91	93 (17%) 4 3	14, 34, 90, 171	28 (5%)

All (93) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	205	ALA	8.3
1	A	439	ASP	8.1
1	A	227[A]	VAL	7.9
1	A	229[A]	LYS	7.4
1	A	440	MET	7.4
1	A	170	PRO	6.4
1	A	231[A]	LEU	6.3
1	A	233[A]	ASN	6.1
1	A	232[A]	VAL	6.1
1	B	227	VAL	5.9
1	B	173	ALA	5.9
1	B	237	PRO	5.7
1	A	383[A]	PHE	5.7
1	B	234	GLY	5.3
1	B	440	MET	5.3
1	A	204	LYS	5.3
1	A	191	ASN	5.3
1	B	230	GLN	5.2
1	A	234[A]	GLY	5.1
1	B	229	LYS	5.1
1	B	439	ASP	5.1
1	B	191	ASN	5.0
1	B	224[A]	LYS	4.9
1	B	239	LYS	4.9

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Mol	Chain	Res	Type	RSRZ
1	B	203	GLY	4.9
1	A	394	TYR	4.8
1	B	419[A]	ARG	4.8
1	B	180	LYS	4.6
1	A	230[A]	GLN	4.5
1	B	418[A]	GLN	4.2
1	B	231	LEU	4.2
1	A	208	THR	4.1
1	B	241	ILE	4.1
1	B	307	ASN	4.0
1	B	233	ASN	4.0
1	B	392	ALA	3.9
1	B	176	LYS	3.9
1	B	422	LYS	3.8
1	A	438	LYS	3.8
1	A	203	GLY	3.8
1	B	235	LEU	3.7
1	B	232	VAL	3.7
1	B	394	TYR	3.6
1	B	219	LEU	3.6
1	A	386	GLN	3.5
1	A	172	VAL	3.5
1	B	393	GLN	3.5
1	B	429[A]	LEU	3.4
1	B	209	ALA	3.4
1	B	386	GLN	3.4
1	B	258	ARG	3.3
1	A	171	GLN	3.2
1	A	206	SER	3.2
1	B	265	LYS	3.2
1	B	202	THR	3.2
1	B	238	TYR	3.1
1	B	199	SER	3.1
1	B	383	PHE	3.1
1	A	393	GLN	3.1
1	B	236	PRO	3.0
1	A	429[A]	LEU	3.0
1	A	173	ALA	3.0
1	A	392	ALA	2.9
1	A	184	ASN	2.9
1	A	235[A]	LEU	2.9
1	B	322	LYS	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	207	HIS	2.9
1	B	315	GLU	2.9
1	B	438	LYS	2.9
1	B	421	LYS	2.8
1	A	225[A]	GLY	2.8
1	B	318	ARG	2.7
1	B	426	GLU	2.6
1	A	224[A]	LYS	2.6
1	B	228	TRP	2.6
1	A	239	LYS	2.5
1	B	225[A]	GLY	2.5
1	A	293[A]	MET	2.5
1	B	309	SER	2.4
1	A	434	GLN	2.4
1	A	236[A]	PRO	2.4
1	B	210	PRO	2.3
1	A	315	GLU	2.3
1	A	272	SER	2.2
1	A	202	THR	2.2
1	B	268	PRO	2.2
1	B	369	ARG	2.1
1	A	237[A]	PRO	2.1
1	A	258	ARG	2.1
1	B	183	TYR	2.1
1	B	188[A]	LYS	2.1
1	B	434[A]	GLN	2.0
1	B	226	LEU	2.0

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

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

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,

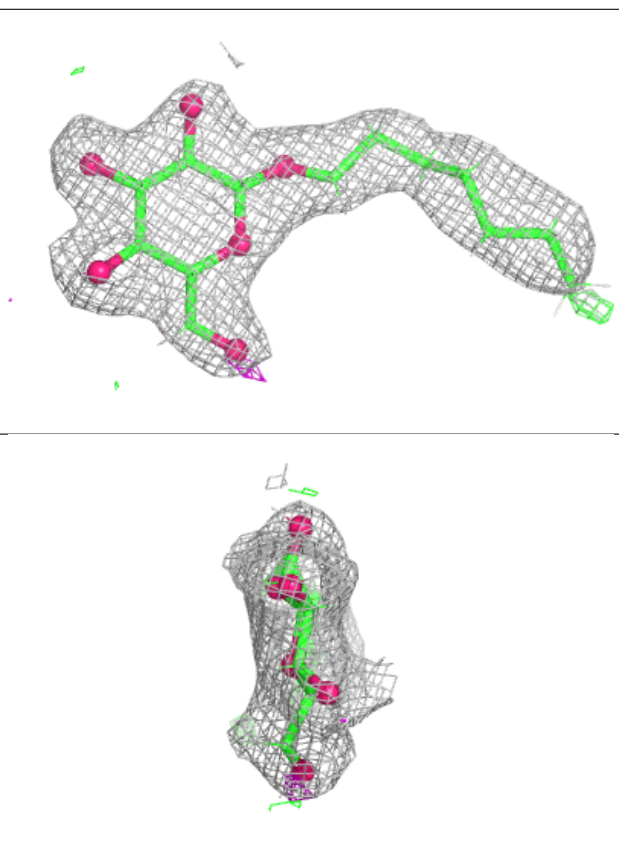
median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
4	PGO	A	503	5/5	0.82	0.23	31,56,69,70	0
5	PEG	A	505	7/7	0.82	0.17	45,56,73,73	0
5	PEG	B	504	7/7	0.82	0.24	41,55,104,104	0
4	PGO	A	504	5/5	0.84	0.20	38,49,77,89	0
4	PGO	A	506	5/5	0.84	0.22	45,60,77,77	0
4	PGO	B	506	5/5	0.85	0.18	47,60,77,77	0
4	PGO	B	503	5/5	0.86	0.17	48,58,71,71	0
3	B7G	B	501	19/19	0.89	0.14	26,44,91,109	0
5	PEG	B	505	7/7	0.89	0.15	43,53,77,77	0
3	B7G	A	502	19/19	0.90	0.12	25,49,66,66	0
2	7V4	B	502	33/33	0.92	0.09	17,25,39,46	0
2	7V4	A	501	33/33	0.96	0.07	11,19,39,46	0
6	K	B	507	1/1	0.97	0.06	43,43,43,43	0
6	K	A	507	1/1	0.98	0.05	42,42,42,42	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.

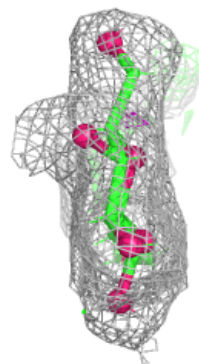
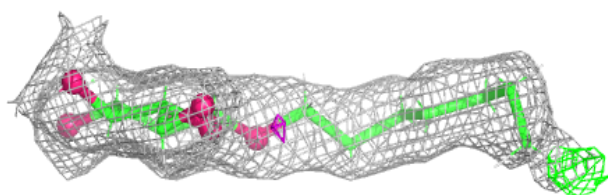
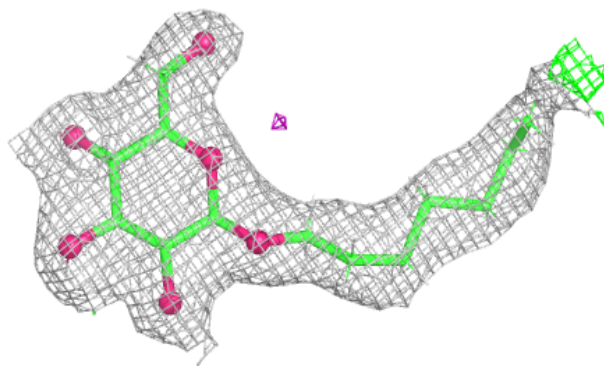
Electron density around B7G B 501:

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

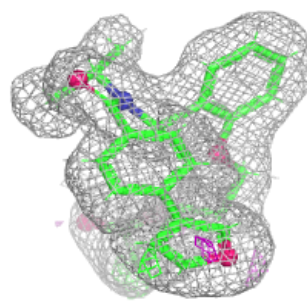
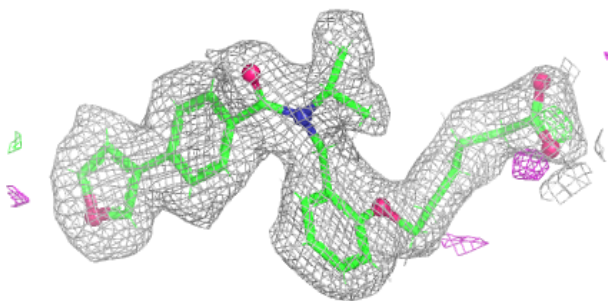
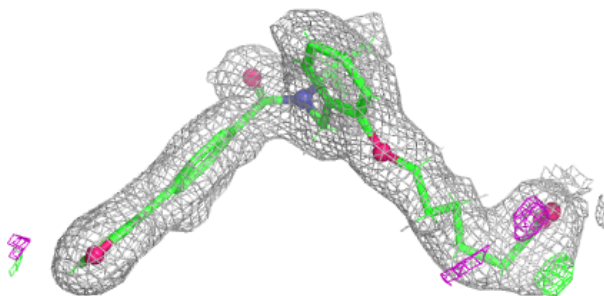


Electron density around B7G A 502:

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

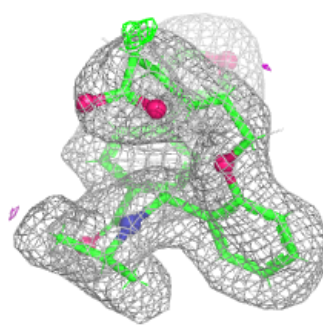
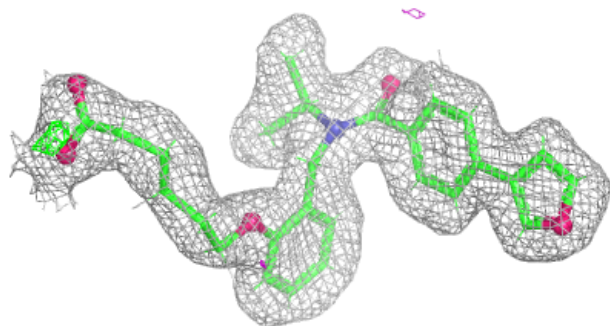
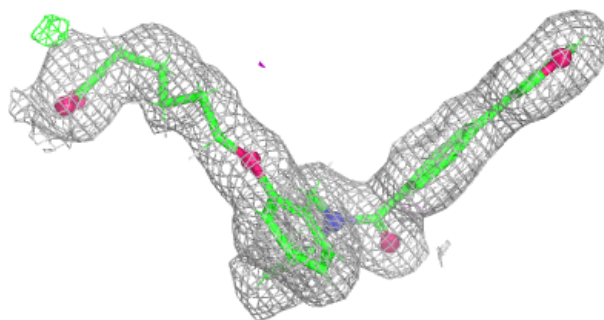
**Electron density around 7V4 B 502:**

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



Electron density around 7V4 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)



6.5 Other polymers [i](#)

There are no such residues in this entry.