Full wwPDB X-ray Structure Validation Report (i)

Nov 13, 2023 – 09:43 PM JST

PDB ID	:	5Y41
Title	:	Crystal Structure of LIGAND-BOUND NURR1-LBD
Authors	:	Sreekanth, R.; Lescar, J.; Yoon, H.S.
Deposited on	:	2017-07-31
Resolution	:	2.05 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 (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 (i)) were used in the production of this report:

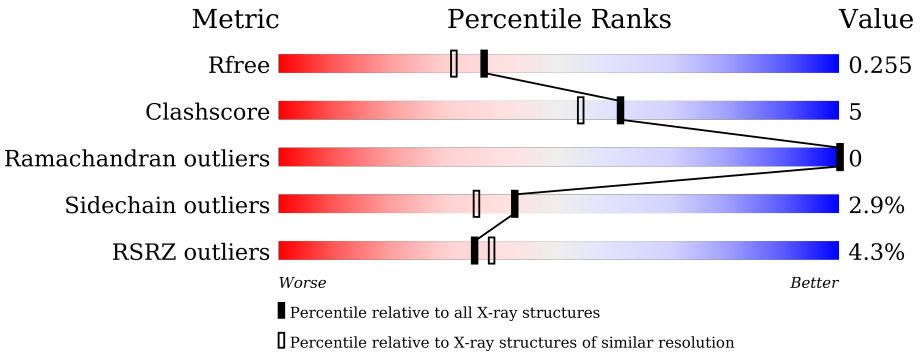
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 2.05 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	1692 (2.04-2.04)
Clashscore	141614	1773 (2.04-2.04)
Ramachandran outliers	138981	1752 (2.04-2.04)
Sidechain outliers	138945	1752 (2.04-2.04)
RSRZ outliers	127900	1672 (2.04-2.04)

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	271	3% 78% 7% • 14%
1	B	271	4% 72% 12% • 14%

2 Entry composition (i)

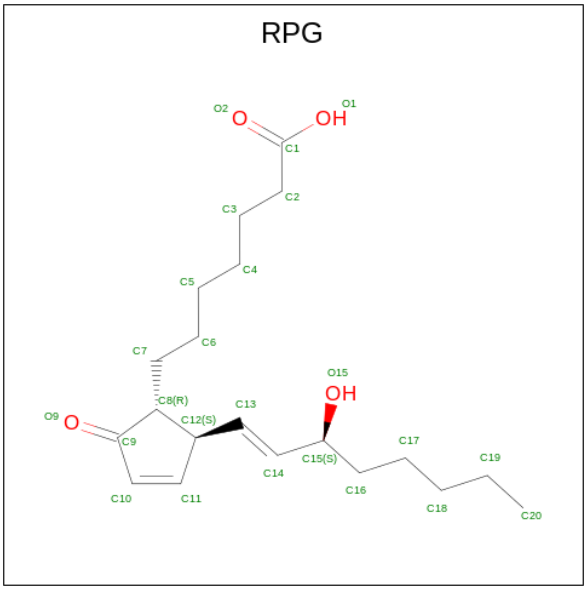
There are 7 unique types of molecules in this entry. The entry contains 4082 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Nuclear receptor subfamily 4 group A member 2.

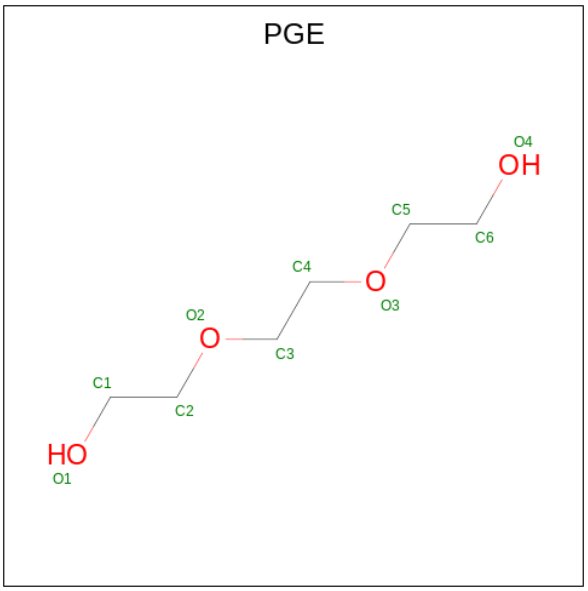
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	232	1849	1187	314	339	9	0	0	0
1	B	232	1847	1189	314	335	9	0	0	0

- Molecule 2 is (13E,15S)-15-hydroxy-9-oxoprosta-10,13-dien-1-oic acid (three-letter code: RPG) (formula: $C_{20}H_{32}O_4$).



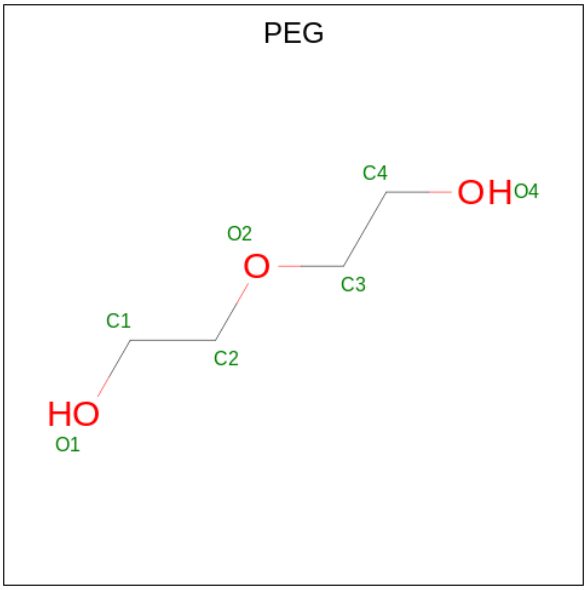
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
2	A	1	24	20	4	0	0
2	B	1	24	20	4	0	0

- Molecule 3 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C O 10 6 4	0	0

- 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 O 7 4 3	0	0

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total Cl 1 1	0	0
5	B	1	Total Cl 1 1	0	0

- Molecule 6 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total Mg 1 1	0	0

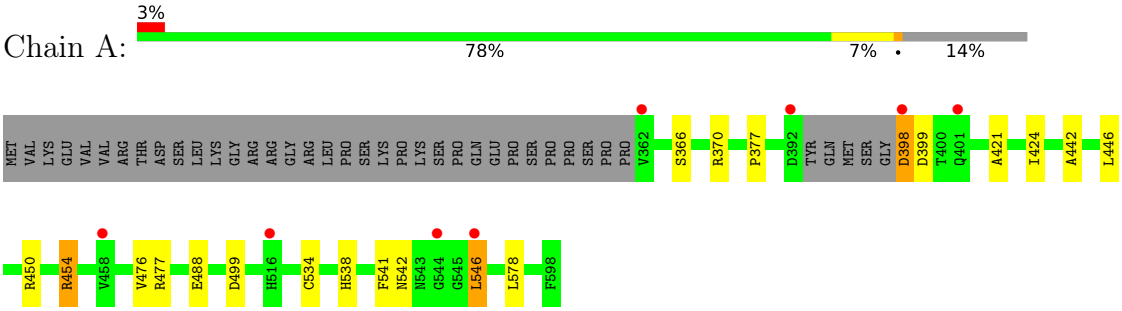
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	169	Total O 169 169	0	0
7	B	149	Total O 149 149	0	0

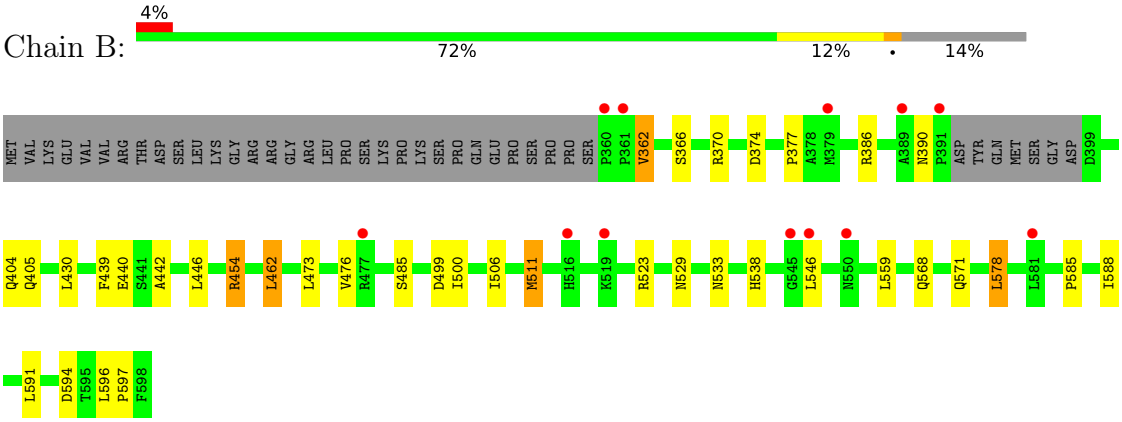
3 Residue-property plots (i)

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: Nuclear receptor subfamily 4 group A member 2



• Molecule 1: Nuclear receptor subfamily 4 group A member 2



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α, β, γ	88.52Å 131.46Å 47.13Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.05 19.90 – 2.05	Depositor EDS
% Data completeness (in resolution range)	99.4 (20.00-2.05) 99.6 (19.90-2.05)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.97 (at 2.06Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.206 , 0.253 0.207 , 0.255	Depositor DCC
R_{free} test set	1071 reflections (3.05%)	wwPDB-VP
Wilson B-factor (Å^2)	29.0	Xtriage
Anisotropy	0.100	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.37 , 51.7	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	4082	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 6.02% 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: MG, PEG, CL, PGE, RPG

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	0.76	1/1887 (0.1%)	0.95	6/2555 (0.2%)
1	B	0.73	0/1887	0.90	6/2556 (0.2%)
All	All	0.74	1/3774 (0.0%)	0.93	12/5111 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	534	CYS	CB-SG	-5.06	1.73	1.81

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	454	ARG	NE-CZ-NH2	-16.32	112.14	120.30
1	B	454	ARG	NE-CZ-NH2	-12.04	114.28	120.30
1	A	454	ARG	NE-CZ-NH1	11.18	125.89	120.30
1	B	454	ARG	NE-CZ-NH1	8.51	124.56	120.30
1	B	462	LEU	CA-CB-CG	-7.52	98.00	115.30
1	A	578	LEU	CB-CG-CD2	-7.09	98.95	111.00
1	A	546	LEU	CA-CB-CG	6.60	130.47	115.30
1	A	578	LEU	CA-CB-CG	6.47	130.19	115.30
1	B	511	MET	CG-SD-CE	-5.96	90.67	100.20
1	B	578	LEU	CA-CB-CG	-5.53	102.58	115.30
1	A	450	ARG	NE-CZ-NH2	-5.39	117.60	120.30
1	B	594	ASP	CB-CG-OD2	5.05	122.84	118.30

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	1849	0	1860	12	0
1	B	1847	0	1867	23	0
2	A	24	0	0	0	0
2	B	24	0	0	0	0
3	A	10	0	14	5	0
4	A	7	0	10	0	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
6	A	1	0	0	0	0
7	A	169	0	0	0	0
7	B	149	0	0	0	0
All	All	4082	0	3751	34	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 5.

All (34) 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:430:LEU:HD23	1:B:523:ARG:HD2	1.51	0.90
1:B:386:ARG:HD3	1:B:405:GLN:HE22	1.43	0.82
1:B:377:PRO:HD2	1:B:454:ARG:HD2	1.66	0.78
1:B:506:ILE:HG23	1:B:559:LEU:HD11	1.72	0.71
1:A:377:PRO:HD2	1:A:454:ARG:HD2	1.73	0.71
1:B:370:ARG:HD2	1:B:374:ASP:OD2	1.92	0.69
1:B:362:VAL:HG13	1:B:366:SER:CB	2.23	0.68
1:B:440:GLU:HG2	1:B:591:LEU:HD11	1.75	0.68
1:A:399:ASP:H	1:A:477:ARG:HH21	1.43	0.67
1:B:362:VAL:HG13	1:B:366:SER:HB2	1.75	0.67
1:A:366:SER:O	1:A:370:ARG:HG2	1.98	0.62
3:A:602:PGE:H12	1:B:366:SER:OG	2.00	0.61
1:A:398:ASP:N	1:A:477:ARG:HE	1.98	0.61
1:B:390:ASN:OD1	1:B:390:ASN:N	2.36	0.57
1:B:439:PHE:HA	1:B:511:MET:HE2	1.89	0.55
1:B:439:PHE:HA	1:B:511:MET:CE	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:541:PHE:CD2	3:A:602:PGE:H52	2.43	0.54
1:A:442:ALA:HB1	1:A:446:LEU:HD23	1.90	0.53
1:B:362:VAL:HG13	1:B:366:SER:HB3	1.92	0.51
1:B:430:LEU:CD2	1:B:523:ARG:HD2	2.33	0.51
1:A:499:ASP:OD1	1:A:538:HIS:HE1	1.95	0.49
1:B:377:PRO:CD	1:B:454:ARG:HD2	2.42	0.49
1:B:499:ASP:OD1	1:B:538:HIS:HE1	1.98	0.46
1:B:485:SER:CB	1:B:568:GLN:HE22	2.29	0.45
1:A:538:HIS:HD2	3:A:602:PGE:O4	1.99	0.45
1:B:585:PRO:HD2	1:B:588:ILE:HD12	1.99	0.44
1:B:442:ALA:HB1	1:B:446:LEU:HD23	2.00	0.44
1:A:542:ASN:HD21	3:A:602:PGE:H4	1.82	0.44
1:A:541:PHE:CE2	3:A:602:PGE:H52	2.53	0.43
1:A:370:ARG:CZ	1:B:500:ILE:HD12	2.49	0.43
1:B:596:LEU:HA	1:B:597:PRO:HD3	1.87	0.43
1:B:430:LEU:HD23	1:B:523:ARG:CD	2.37	0.42
1:B:529:ASN:O	1:B:533:ASN:ND2	2.54	0.41
1:A:421:ALA:HA	1:A:424:ILE:HD12	2.01	0.41

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	228/271 (84%)	226 (99%)	2 (1%)	0	100	100
1	B	228/271 (84%)	226 (99%)	2 (1%)	0	100	100
All	All	456/542 (84%)	452 (99%)	4 (1%)	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	206/242 (85%)	202 (98%)	4 (2%)	57	53
1	B	206/242 (85%)	198 (96%)	8 (4%)	32	25
All	All	412/484 (85%)	400 (97%)	12 (3%)	42	35

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	398	ASP
1	A	476	VAL
1	A	488	GLU
1	A	546	LEU
1	B	362	VAL
1	B	404	GLN
1	B	462	LEU
1	B	473	LEU
1	B	476	VAL
1	B	546	LEU
1	B	571	GLN
1	B	578	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	435	GLN
1	A	492	ASN
1	A	494	GLN
1	A	495	ASN
1	A	538	HIS
1	A	542	ASN
1	A	550	ASN
1	B	405	GLN
1	B	435	GLN
1	B	492	ASN

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Mol	Chain	Res	Type
1	B	494	GLN
1	B	495	ASN
1	B	529	ASN
1	B	533	ASN
1	B	538	HIS
1	B	542	ASN
1	B	568	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)

Of 7 ligands modelled in this entry, 3 are monoatomic - leaving 4 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	RPG	B	601	1	23,24,24	0.76	1 (4%)	21,29,29	2.52	5 (23%)
3	PGE	A	602	-	9,9,9	0.54	0	8,8,8	0.67	0
4	PEG	A	603	-	6,6,6	0.48	0	5,5,5	0.33	0
2	RPG	A	601	1	23,24,24	0.73	0	21,29,29	2.50	6 (28%)

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	RPG	B	601	1	-	6/19/32/32	0/1/1/1
3	PGE	A	602	-	-	3/7/7/7	-
4	PEG	A	603	-	-	2/4/4/4	-
2	RPG	A	601	1	-	11/19/32/32	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	601	RPG	C8-C9	-2.32	1.50	1.53

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	A	601	RPG	C11-C10-C9	-8.33	105.97	110.15
2	B	601	RPG	C11-C10-C9	-7.43	106.42	110.15
2	B	601	RPG	C8-C9-C10	5.49	112.64	107.56
2	B	601	RPG	O9-C9-C10	-5.38	123.16	127.08
2	A	601	RPG	C15-C14-C13	-3.82	115.13	125.09
2	A	601	RPG	O9-C9-C10	-3.80	124.31	127.08
2	A	601	RPG	C6-C7-C8	-3.50	108.00	114.28
2	A	601	RPG	C8-C9-C10	2.36	109.75	107.56
2	B	601	RPG	O15-C15-C14	-2.16	100.97	109.37
2	A	601	RPG	C3-C2-C1	-2.07	109.25	114.47
2	B	601	RPG	O2-C1-C2	-2.07	116.44	123.08

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	601	RPG	C6-C7-C8-C9
2	B	601	RPG	C6-C7-C8-C9
4	A	603	PEG	O2-C3-C4-O4
2	A	601	RPG	C5-C6-C7-C8
2	A	601	RPG	C1-C2-C3-C4
2	A	601	RPG	C4-C5-C6-C7
2	A	601	RPG	C16-C17-C18-C19
3	A	602	PGE	O2-C3-C4-O3
2	B	601	RPG	C17-C18-C19-C20

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Mol	Chain	Res	Type	Atoms
2	A	601	RPG	C17-C18-C19-C20
2	B	601	RPG	C4-C5-C6-C7
4	A	603	PEG	C1-C2-O2-C3
3	A	602	PGE	C4-C3-O2-C2
2	B	601	RPG	C2-C3-C4-C5
2	A	601	RPG	C6-C7-C8-C12
2	B	601	RPG	C6-C7-C8-C12
2	A	601	RPG	O2-C1-C2-C3
2	A	601	RPG	O1-C1-C2-C3
3	A	602	PGE	O3-C5-C6-O4
2	B	601	RPG	O15-C15-C16-C17
2	A	601	RPG	C15-C16-C17-C18
2	A	601	RPG	C2-C3-C4-C5

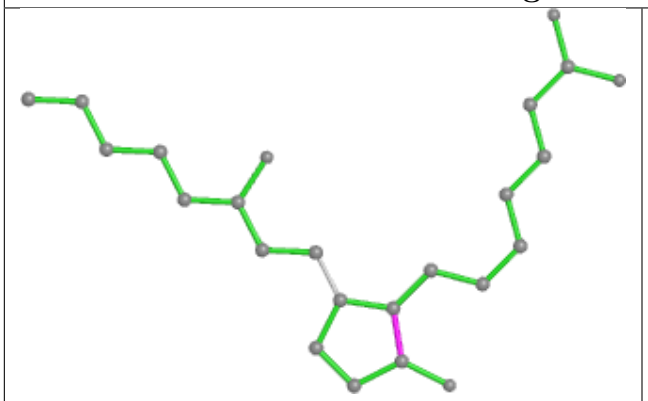
There are no ring outliers.

1 monomer is involved in 5 short contacts:

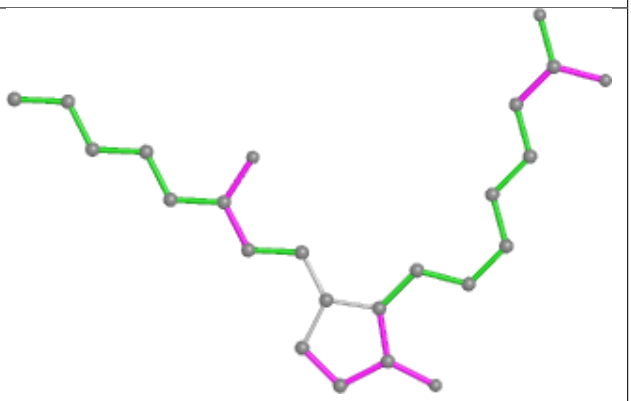
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	602	PGE	5	0

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.

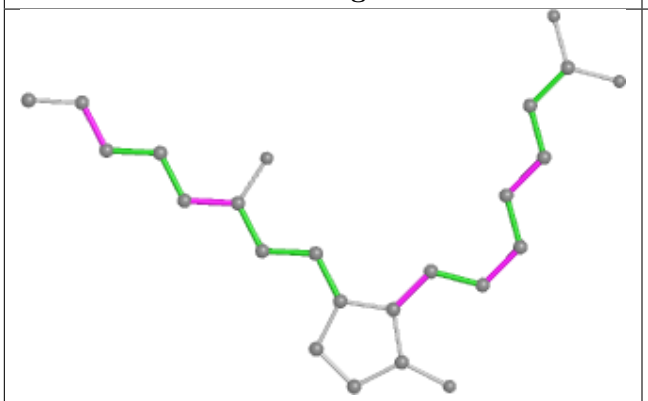
Ligand RPG B 601



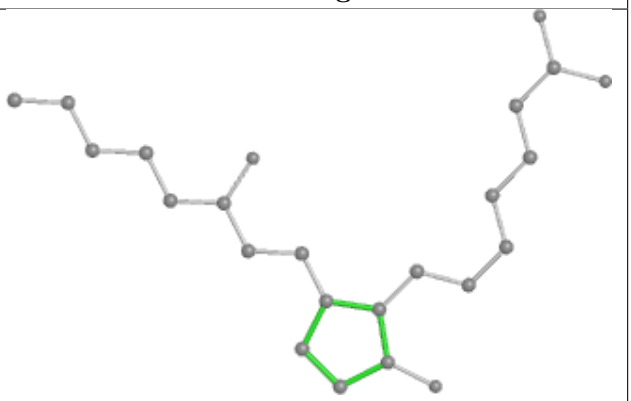
Bond lengths



Bond angles

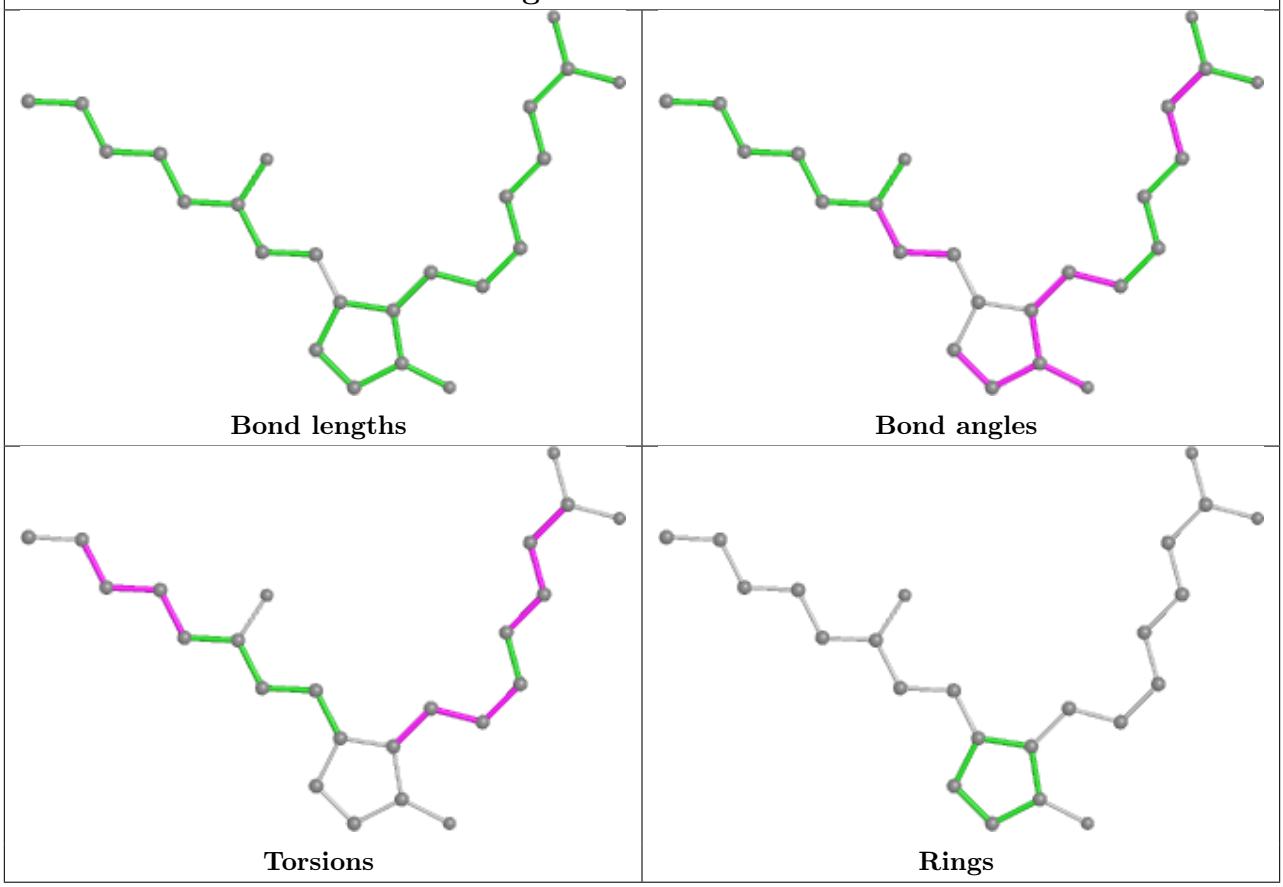


Torsions



Rings

Ligand RPG A 601



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	232/271 (85%)	0.06	8 (3%)	45	49	22, 35, 54, 84	0
1	B	232/271 (85%)	0.20	12 (5%)	27	29	23, 39, 66, 96	0
All	All	464/542 (85%)	0.13	20 (4%)	35	38	22, 37, 63, 96	0

All (20) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	392	ASP	5.5
1	B	391	PRO	5.4
1	A	546	LEU	5.0
1	A	398	ASP	4.9
1	A	544	GLY	4.8
1	B	361	PRO	4.7
1	A	362	VAL	4.7
1	B	546	LEU	4.4
1	B	545	GLY	3.7
1	B	550	ASN	3.4
1	A	516	HIS	3.4
1	B	477	ARG	2.8
1	B	516	HIS	2.6
1	B	519	LYS	2.4
1	A	401	GLN	2.3
1	B	389	ALA	2.3
1	B	581	LEU	2.2
1	A	458	VAL	2.2
1	B	360	PRO	2.1
1	B	379	MET	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 monosaccharides in this entry.

6.4 Ligands (i)

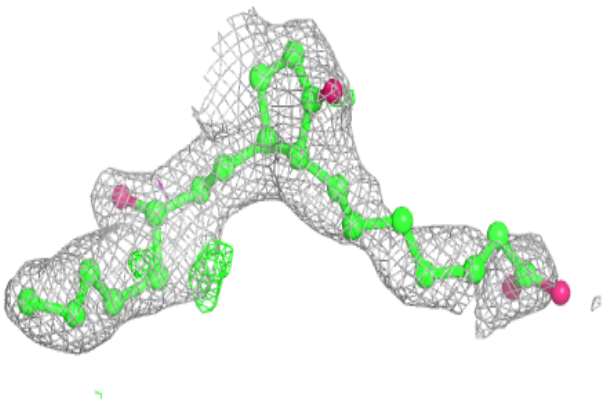
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

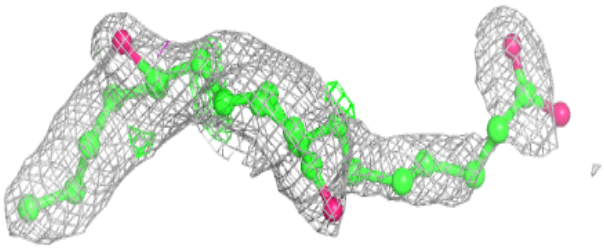
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	RPG	A	601	24/24	0.80	0.23	34,50,75,80	0
4	PEG	A	603	7/7	0.83	0.15	60,63,68,70	0
2	RPG	B	601	24/24	0.86	0.17	34,42,61,63	0
3	PGE	A	602	10/10	0.92	0.15	31,50,54,58	0
6	MG	A	605	1/1	0.95	0.06	51,51,51,51	0
5	CL	B	602	1/1	0.97	0.11	33,33,33,33	0
5	CL	A	604	1/1	0.98	0.05	30,30,30,30	0

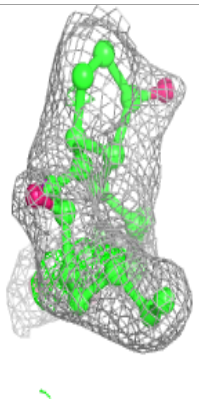
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around RPG A 601:

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

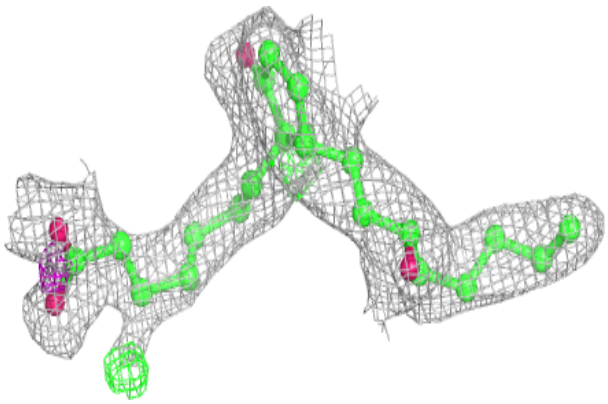


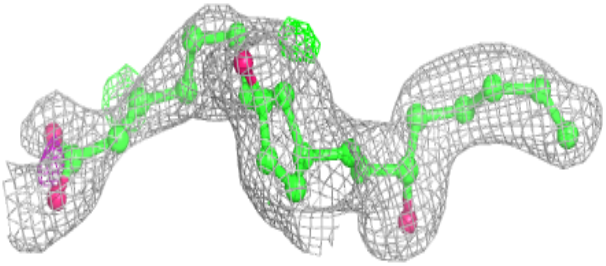


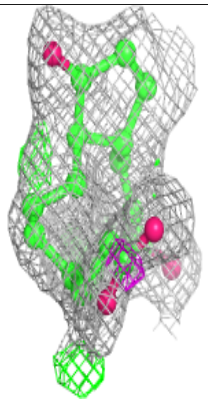


Electron density around RPG B 601:

$2mF_o$-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.