



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 02:08 AM UTC

PDB ID : 7K15 / pdb_00007k15
Title : Crystal structure of the Human Leukotriene B4 Receptor 1 in Complex with Selective Antagonist MK-D-046
Authors : Michaelian, N.; Han, G.W.; Cherezov, V.
Deposited on : 2020-09-07
Resolution : 2.88 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ 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

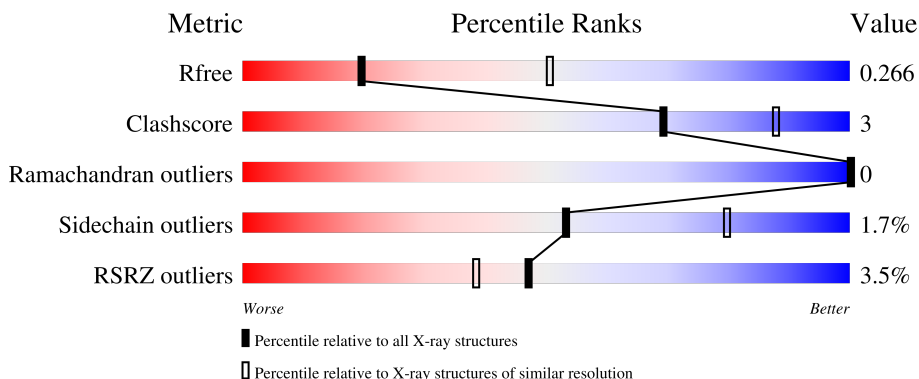
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.88 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	3557 (2.90-2.86)
Clashscore	190562	3801 (2.90-2.86)
Ramachandran outliers	187476	3699 (2.90-2.86)
Sidechain outliers	187428	3702 (2.90-2.86)
RSRZ outliers	180081	3558 (2.90-2.86)

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	490	

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 3624 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 Leukotriene B4 receptor 1, Flavodoxin, Leukotriene B4 receptor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	455	Total	C	N	O	S	0	1	0
			3439	2229	589	607	14			

There are 44 discrepancies between the modelled and reference sequences:

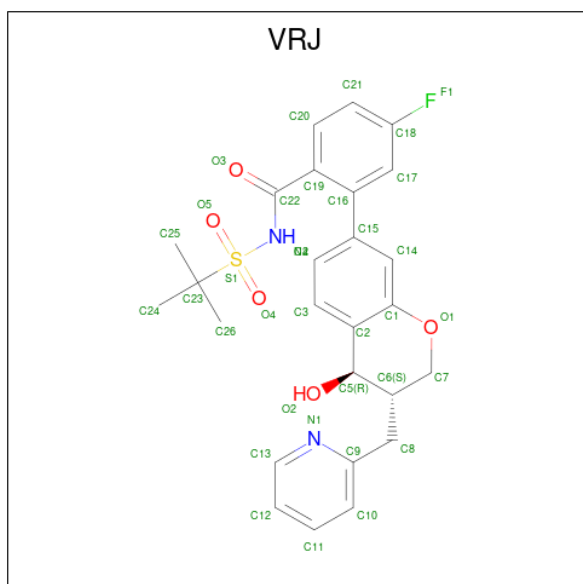
Chain	Residue	Modelled	Actual	Comment	Reference
A	-22	MET	-	expression tag	UNP Q15722
A	-21	LYS	-	expression tag	UNP Q15722
A	-20	THR	-	expression tag	UNP Q15722
A	-19	ILE	-	expression tag	UNP Q15722
A	-18	ILE	-	expression tag	UNP Q15722
A	-17	ALA	-	expression tag	UNP Q15722
A	-16	LEU	-	expression tag	UNP Q15722
A	-15	SER	-	expression tag	UNP Q15722
A	-14	TYR	-	expression tag	UNP Q15722
A	-13	ILE	-	expression tag	UNP Q15722
A	-12	PHE	-	expression tag	UNP Q15722
A	-11	CYS	-	expression tag	UNP Q15722
A	-10	LEU	-	expression tag	UNP Q15722
A	-9	VAL	-	expression tag	UNP Q15722
A	-8	PHE	-	expression tag	UNP Q15722
A	-7	ALA	-	expression tag	UNP Q15722
A	-6	ASP	-	expression tag	UNP Q15722
A	-5	TYR	-	expression tag	UNP Q15722
A	-4	LYS	-	expression tag	UNP Q15722
A	-3	ASP	-	expression tag	UNP Q15722
A	-2	ASP	-	expression tag	UNP Q15722
A	-1	ASP	-	expression tag	UNP Q15722
A	0	ASP	-	expression tag	UNP Q15722
A	1	ALA	-	expression tag	UNP Q15722
A	2	GLY	-	expression tag	UNP Q15722
A	3	ARG	-	expression tag	UNP Q15722

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Chain	Residue	Modelled	Actual	Comment	Reference
A	4	ALA	-	expression tag	UNP Q15722
A	106	TRP	LEU	engineered mutation	UNP Q15722
A	116	TYR	SER	engineered mutation	UNP Q15722
A	196	ILE	ALA	engineered mutation	UNP Q15722
A	1002	ALA	PRO	engineered mutation	UNP P00323
A	1098	TRP	TYR	engineered mutation	UNP P00323
A	1149	ARG	-	linker	UNP P00323
A	1150	ARG	-	linker	UNP P00323
A	287	PHE	CYS	engineered mutation	UNP Q15722
A	310	ALA	SER	engineered mutation	UNP Q15722
A	311	GLU	-	expression tag	UNP Q15722
A	312	PHE	-	expression tag	UNP Q15722
A	313	LEU	-	expression tag	UNP Q15722
A	314	GLU	-	expression tag	UNP Q15722
A	315	VAL	-	expression tag	UNP Q15722
A	316	LEU	-	expression tag	UNP Q15722
A	317	PHE	-	expression tag	UNP Q15722
A	318	GLN	-	expression tag	UNP Q15722

- Molecule 2 is N-(tert-butylsulfonyl)-4-fluoro-2-[(3S,4R)-4-hydroxy-3-[(pyridin-2-yl)methyl]-3,4-dihydro-2H-1-benzopyran-7-yl]benzamide (CCD ID: VRJ) (formula: C₂₆H₂₇FN₂O₅S) (labeled as "Ligand of Interest" by depositor).

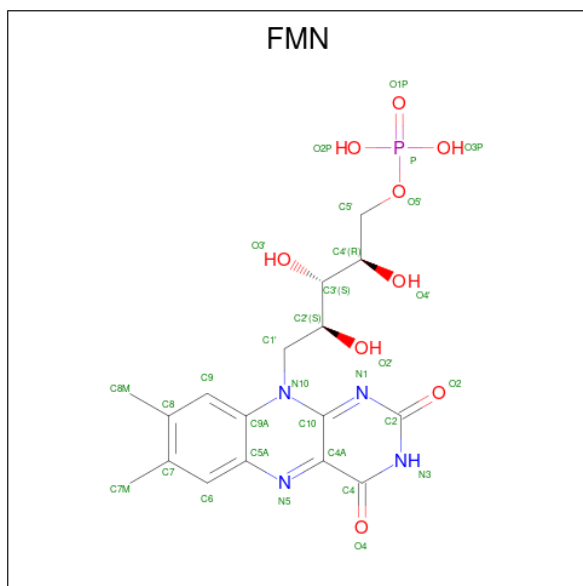


Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total	C	F	N	O	S	0	0
			35	26	1	2	5	1		

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

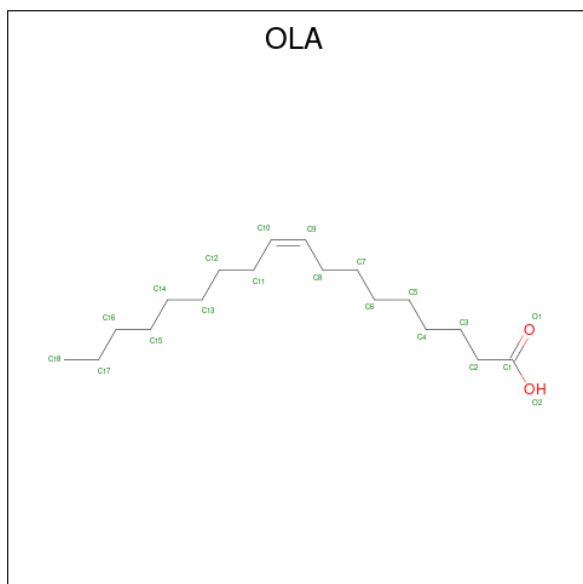
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Na	0	0
			1	1		

- Molecule 4 is FLAVIN MONONUCLEOTIDE (CCD ID: FMN) (formula: C₁₇H₂₁N₄O₉P).



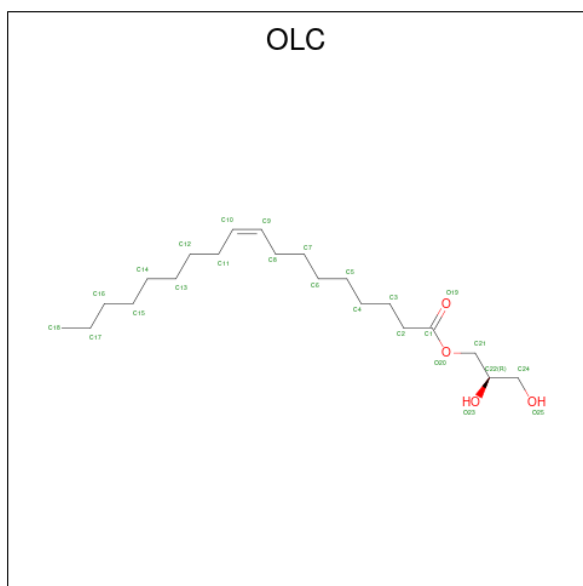
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	N	O	P	0	0
			31	17	4	9	1		

- Molecule 5 is OLEIC ACID (CCD ID: OLA) (formula: C₁₈H₃₄O₂).



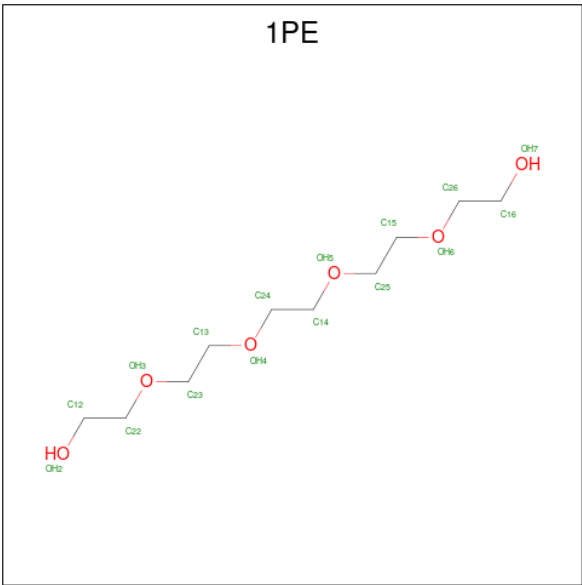
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			12	10	2		

- Molecule 6 is (2R)-2,3-dihydroxypropyl (9Z)-octadec-9-enoate (CCD ID: OLC) (formula: $C_{21}H_{40}O_4$).



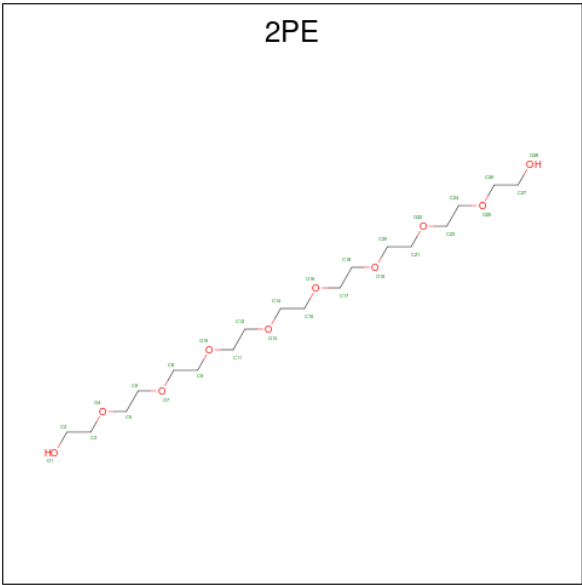
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			13	9	4		
6	A	1	Total	C	O	0	0
			25	21	4		

- Molecule 7 is PENTAETHYLENE GLYCOL (CCD ID: 1PE) (formula: $C_{10}H_{22}O_6$).



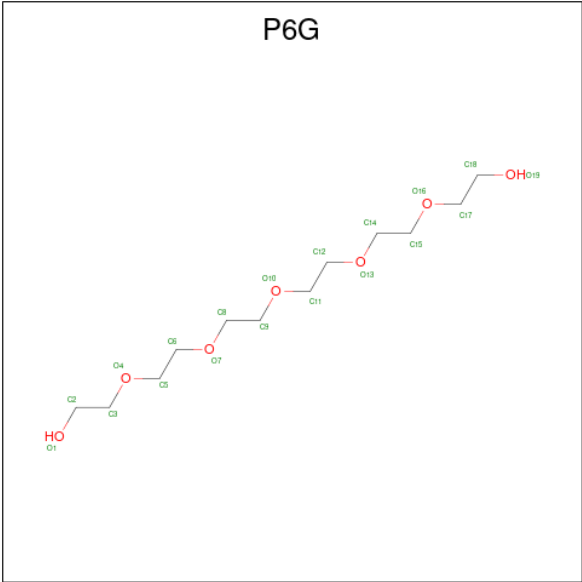
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
7	A	1	Total	C	O	0	0
			16	10	6		

- Molecule 8 is NONAETHYLENE GLYCOL (CCD ID: 2PE) (formula: C₁₈H₃₈O₁₀).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
8	A	1	Total	C	O	0	0
			28	18	10		

- Molecule 9 is HEXAETHYLENE GLYCOL (CCD ID: P6G) (formula: C₁₂H₂₆O₇).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
9	A	1	Total	C	O	0	0
			19	12	7		

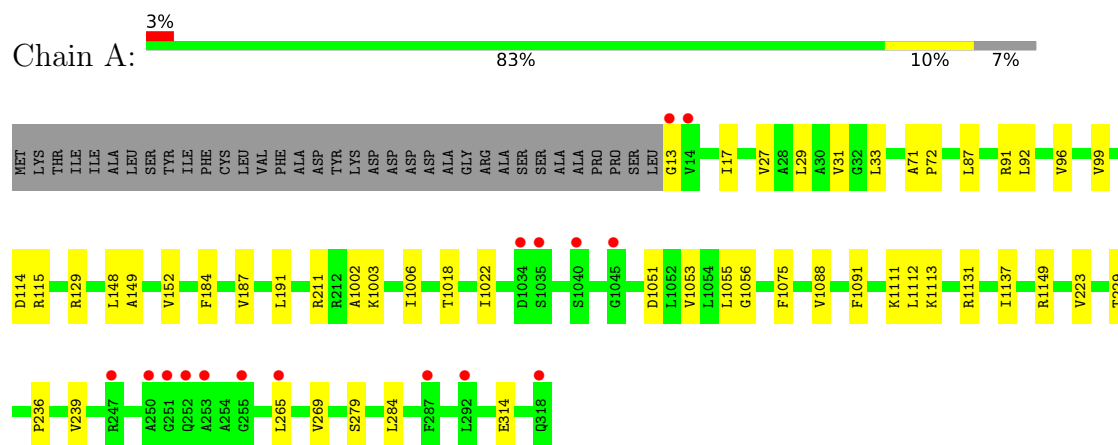
- Molecule 10 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	A	5	Total	O	0	0
			5	5		

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: Leukotriene B4 receptor 1, Flavodoxin, Leukotriene B4 receptor 1



4 Data and refinement statistics

Property	Value	Source
Space group	P 2 ₁ 2 ₁ 2 ₁	Depositor
Cell constants a, b, c, α , β , γ	70.77Å 82.67Å 127.48Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.37 – 2.88 34.37 – 2.88	Depositor EDS
% Data completeness (in resolution range)	78.8 (34.37-2.88) 78.7 (34.37-2.88)	Depositor EDS
R_{merge}	0.25	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 2.90Å)	Xtriage
Refinement program	PHENIX 1.18.2_3874	Depositor
R, R_{free}	0.212 , 0.261 0.216 , 0.266	Depositor DCC
R_{free} test set	727 reflections (4.10%)	wwPDB-VP
Wilson B-factor (Å ²)	65.7	Xtriage
Anisotropy	0.016	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 44.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	3624	wwPDB-VP
Average B, all atoms (Å ²)	63.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.37% 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: OLC, 2PE, OLA, FMN, P6G, NA, VRJ, 1PE

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	0.15	0/3515	0.33	0/4779

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	3439	0	3458	25	0
2	A	35	0	0	0	0
3	A	1	0	0	0	0
4	A	31	0	19	0	0
5	A	12	0	15	0	0
6	A	38	0	55	0	0
7	A	16	0	22	1	0
8	A	28	0	38	0	0
9	A	19	0	26	1	0
10	A	5	0	0	0	0
All	All	3624	0	3633	25	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 3.

The worst 5 of 25 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:31:VAL:HG13	1:A:279:SER:HB2	1.82	0.61
1:A:115:ARG:HH21	1:A:223:VAL:HG21	1.72	0.54
1:A:114:ASP:OD2	1:A:129:ARG:NH1	2.43	0.52
1:A:1055:LEU:HD12	1:A:1112:LEU:HD11	1.91	0.51
1:A:29:LEU:HD11	1:A:72:PRO:HD3	1.92	0.51

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	454/490 (93%)	440 (97%)	14 (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	344/384 (90%)	338 (98%)	6 (2%)	53	80

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1113	LYS
1	A	1131	ARG
1	A	314	GLU
1	A	92	LEU
1	A	33	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	164	ASN
1	A	1142	HIS
1	A	268	ASN

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 9 ligands modelled in this entry, 1 is monoatomic - leaving 8 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	$\# Z > 2$
8	2PE	A	2108	-	27,27,27	0.56	0	26,26,26	0.19	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	OLC	A	2105	-	12,12,24	0.91	0	13,13,25	0.99	1 (7%)
6	OLC	A	2106	-	24,24,24	0.62	0	25,25,25	0.93	1 (4%)
9	P6G	A	2109	-	18,18,18	0.44	0	17,17,17	0.47	0
2	VRJ	A	2101	-	38,38,38	1.14	3 (7%)	53,57,57	1.13	5 (9%)
5	OLA	A	2104	-	11,11,19	0.75	0	11,11,19	1.07	1 (9%)
4	FMN	A	2103	-	33,33,33	1.05	2 (6%)	48,50,50	1.27	7 (14%)
7	1PE	A	2107	-	15,15,15	0.45	0	14,14,14	0.49	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
8	2PE	A	2108	-	-	9/25/25/25	-
6	OLC	A	2105	-	-	8/12/12/24	-
6	OLC	A	2106	-	-	8/24/24/24	-
9	P6G	A	2109	-	-	5/16/16/16	-
2	VRJ	A	2101	-	-	11/26/39/39	0/4/4/4
5	OLA	A	2104	-	-	4/9/9/17	-
4	FMN	A	2103	-	-	3/18/18/18	0/3/3/3
7	1PE	A	2107	-	-	7/13/13/13	-

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	2101	VRJ	C22-N2	3.66	1.43	1.39
4	A	2103	FMN	C4A-N5	3.47	1.38	1.30
2	A	2101	VRJ	O1-C1	2.75	1.40	1.37
4	A	2103	FMN	C10-N1	2.60	1.38	1.33
2	A	2101	VRJ	S1-N2	2.06	1.71	1.61

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	2101	VRJ	O1-C7-C6	3.45	116.14	112.24
4	A	2103	FMN	C4-N3-C2	-3.28	119.83	125.64
4	A	2103	FMN	O4-C4-C4A	-2.93	118.79	126.53
4	A	2103	FMN	C4A-C4-N3	2.65	119.99	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	2103	FMN	C9A-C5A-N5	-2.59	119.71	122.45

There are no chirality outliers.

5 of 55 torsion outliers are listed below:

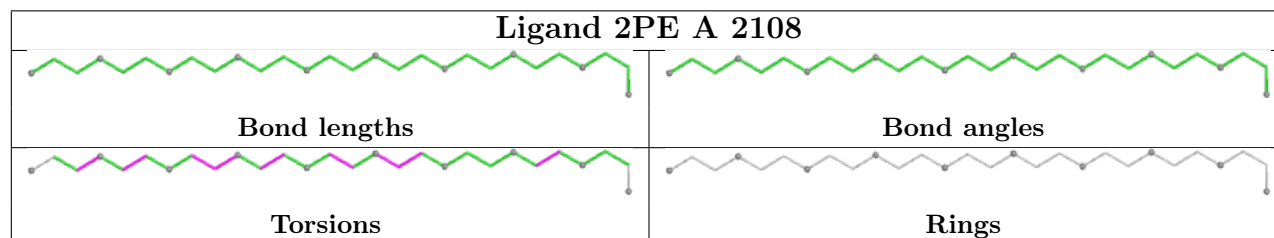
Mol	Chain	Res	Type	Atoms
2	A	2101	VRJ	C22-N2-S1-C23
4	A	2103	FMN	C5'-O5'-P-O1P
4	A	2103	FMN	C5'-O5'-P-O2P
4	A	2103	FMN	C5'-O5'-P-O3P
6	A	2105	OLC	C21-C22-C24-O25

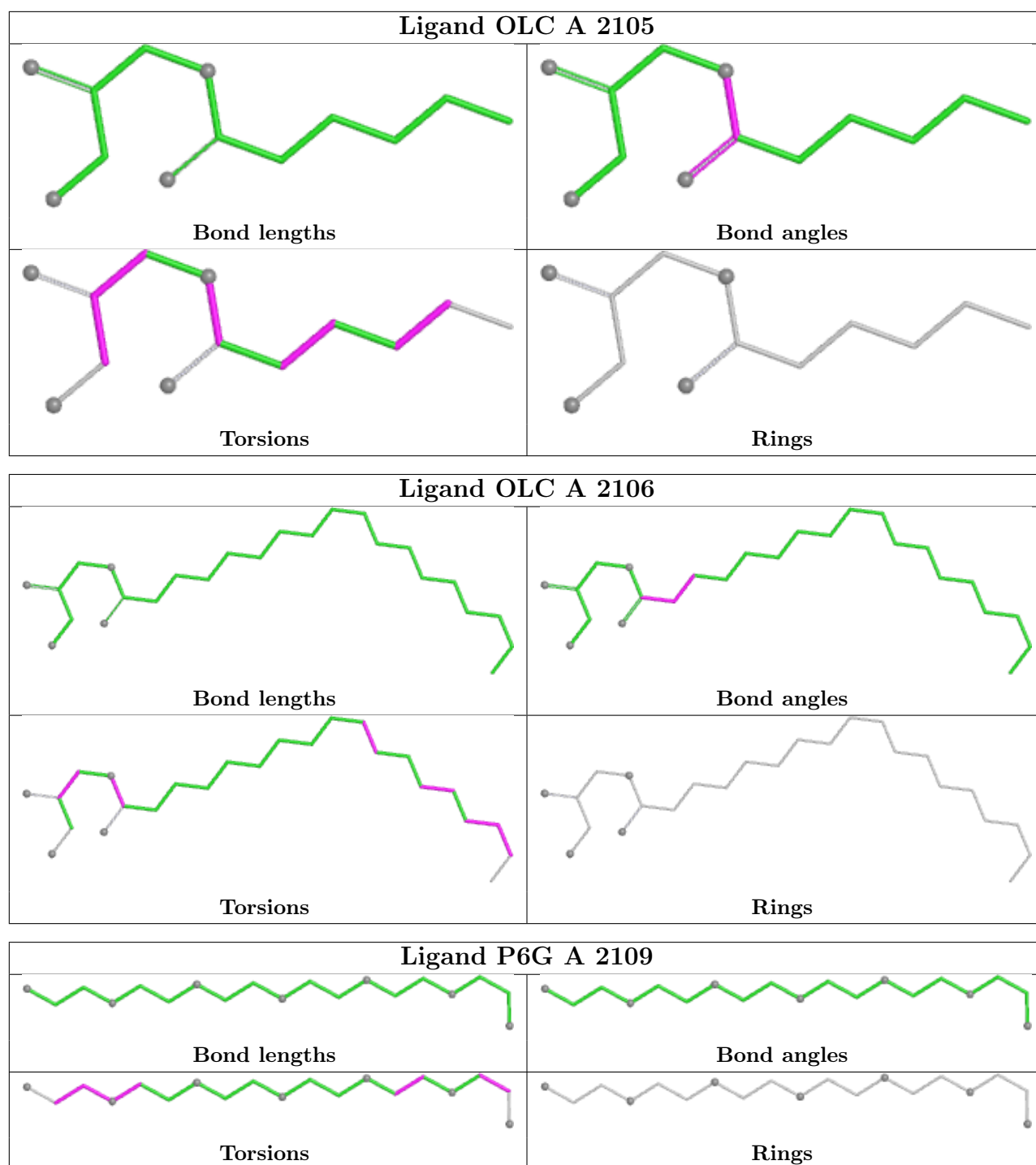
There are no ring outliers.

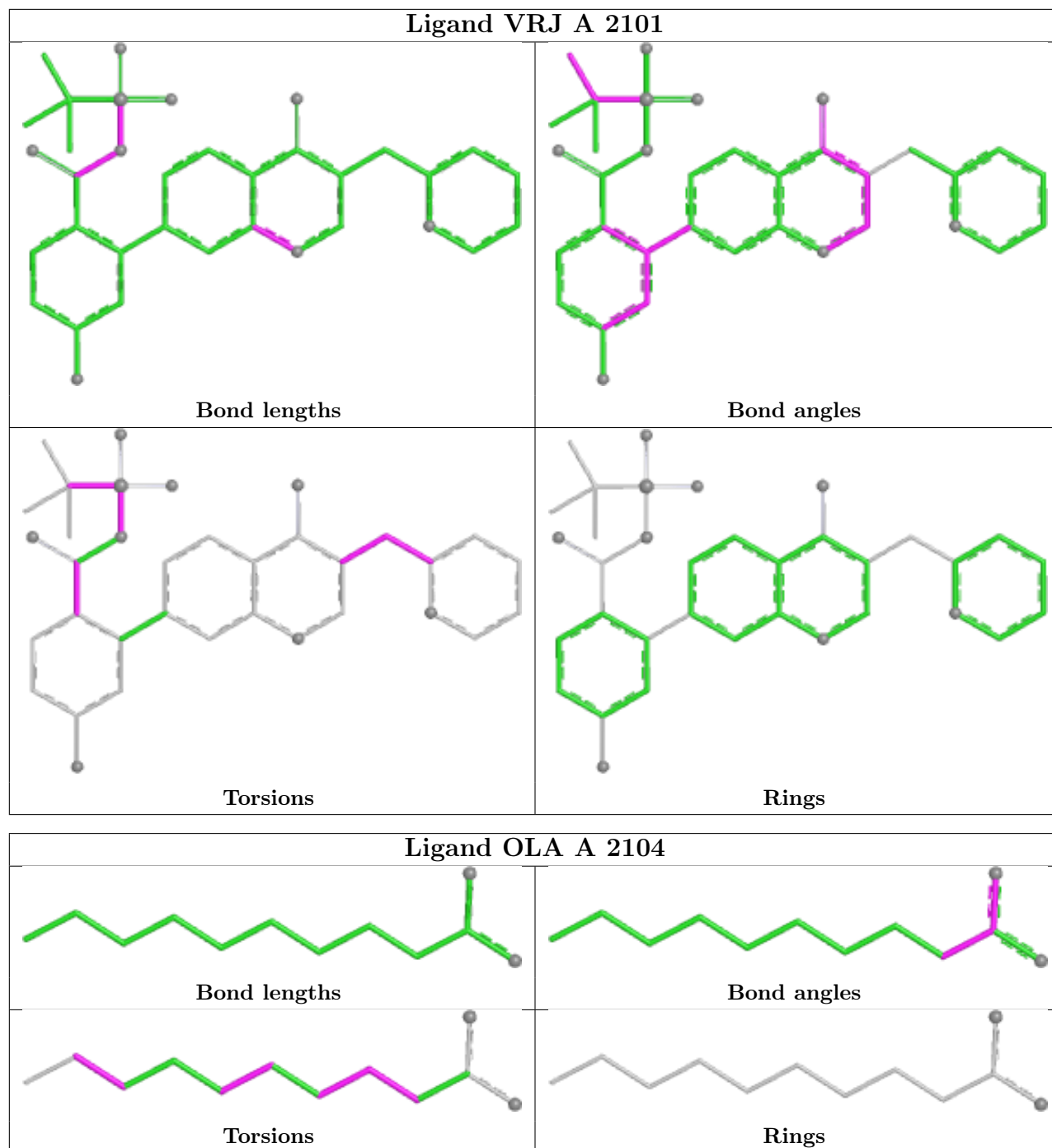
2 monomers are involved in 2 short contacts:

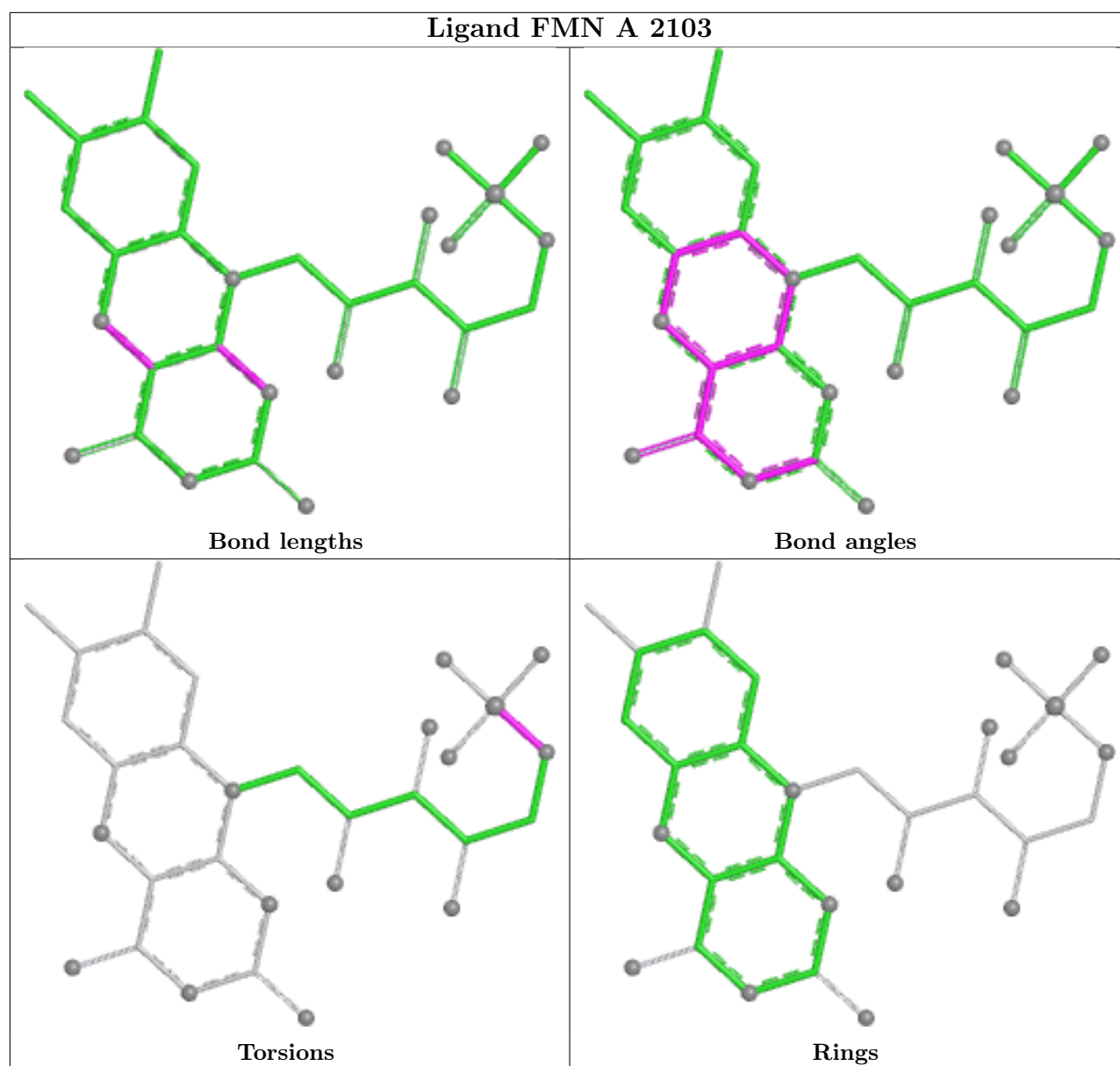
Mol	Chain	Res	Type	Clashes	Symm-Clashes
9	A	2109	P6G	1	0
7	A	2107	1PE	1	0

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 [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	455/490 (92%)	0.14	16 (3%) 47 38	30, 57, 112, 166	1 (0%)

The worst 5 of 16 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	252	GLN	3.9
1	A	255	GLY	3.8
1	A	253	ALA	3.8
1	A	1045	GLY	3.3
1	A	318	GLN	3.2

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
6	OLC	A	2106	25/25	0.81	0.16	36,71,92,101	0
5	OLA	A	2104	12/20	0.84	0.14	40,57,102,103	0

Continued on next page...

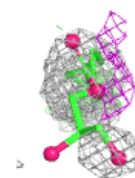
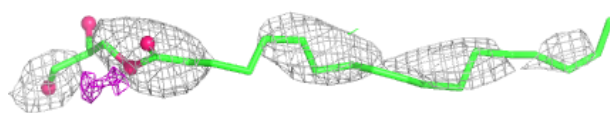
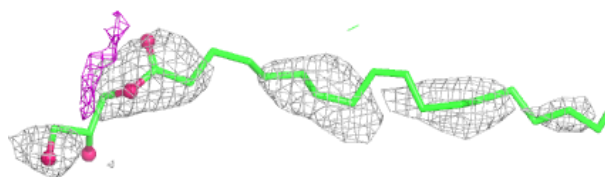
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	OLC	A	2105	13/25	0.86	0.11	29,61,99,104	0
7	1PE	A	2107	16/16	0.86	0.21	57,73,92,97	0
8	2PE	A	2108	28/28	0.89	0.15	49,70,87,97	0
2	VRJ	A	2101	35/35	0.91	0.13	49,69,92,105	0
9	P6G	A	2109	19/19	0.91	0.12	40,64,76,78	0
3	NA	A	2102	1/1	0.93	0.09	67,67,67,67	0
4	FMN	A	2103	31/31	0.96	0.08	34,49,62,65	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.

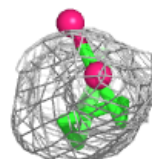
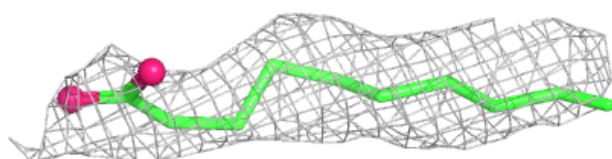
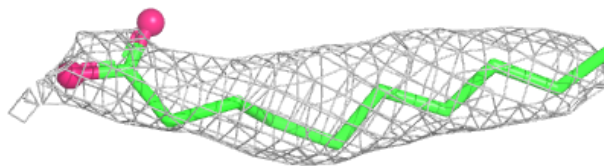
Electron density around OLC A 2106:

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

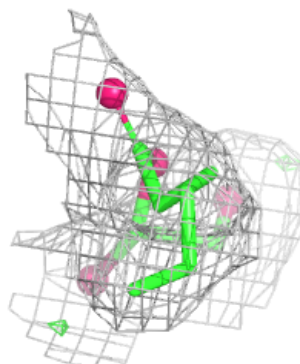
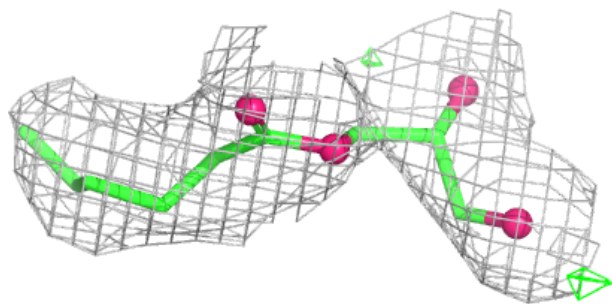


Electron density around OLA A 2104:

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

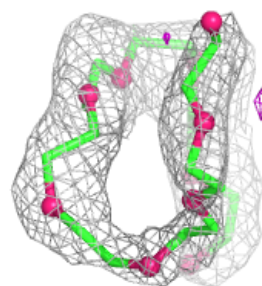
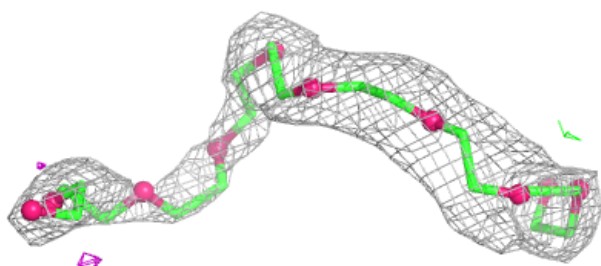
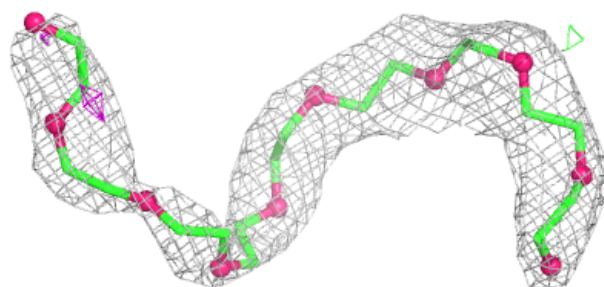
**Electron density around OLC A 2105:**

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



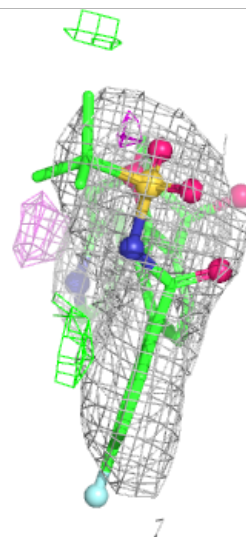
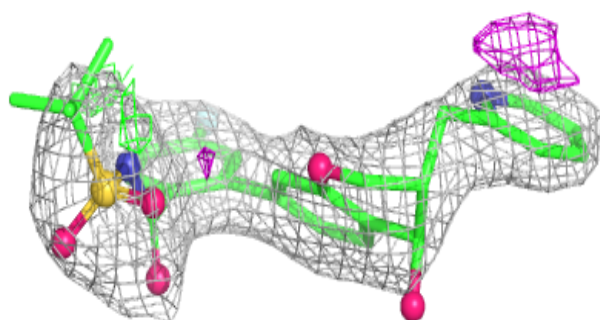
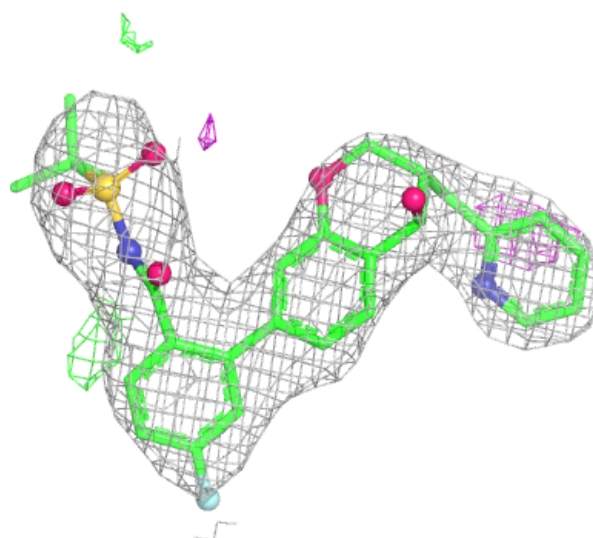
Electron density around 2PE A 2108:

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



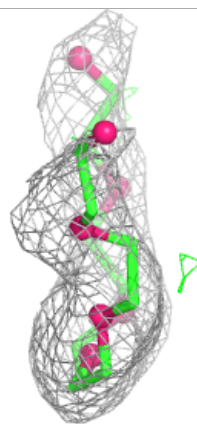
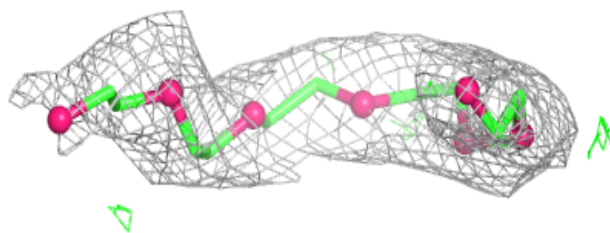
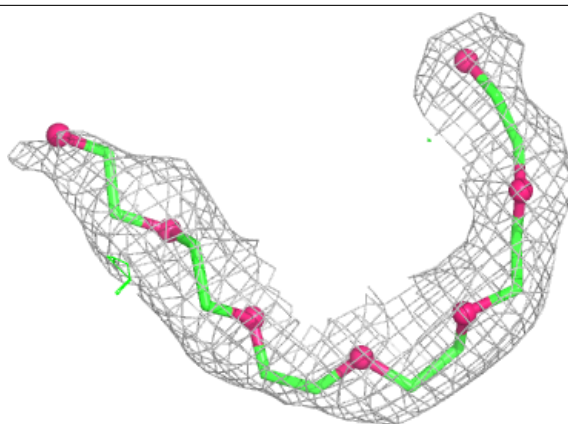
Electron density around VRJ A 2101:

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



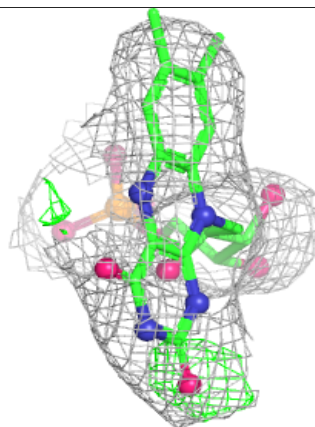
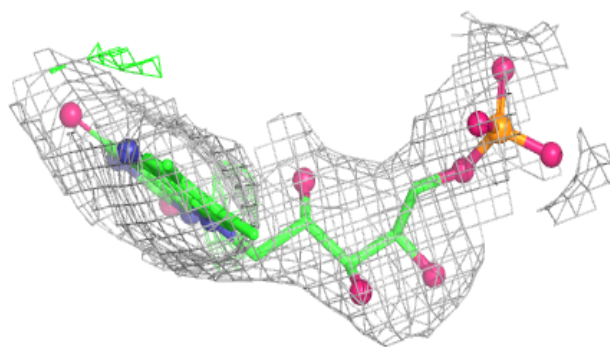
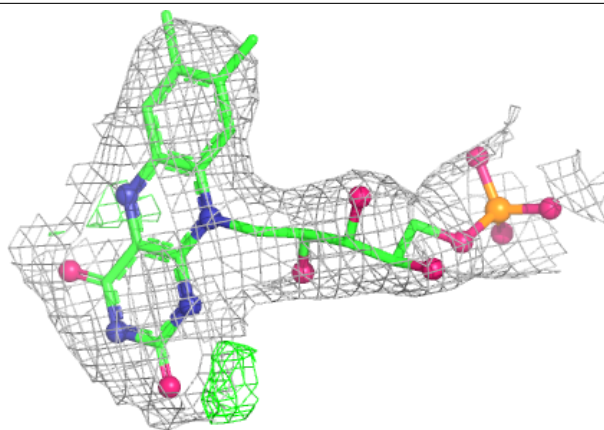
Electron density around P6G A 2109:

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



Electron density around FMN A 2103:

$2mF_o - DF_c$ (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.