



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 25, 2026 – 09:24 PM UTC

PDB ID : 6LAM / pdb_00006lam
Title : Crystal structure of rhesus macaque MHC class I molecule Mamu-B*098 complexed with lysophosphatidylethanolamine
Authors : Shima, Y.; Morita, D.
Deposited on : 2019-11-12
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 : **FAILED**
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

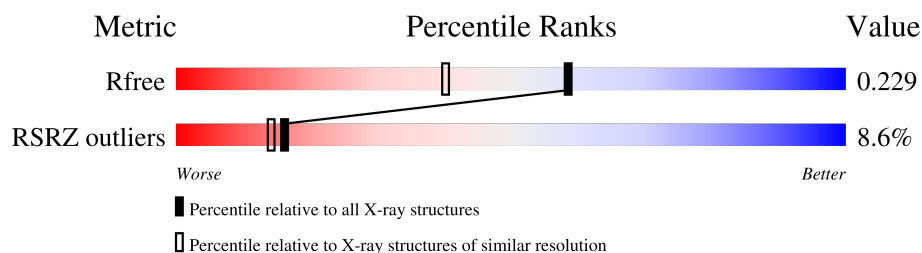
1 Overall quality at a glance

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)
RSRZ outliers	180081	7663 (1.80-1.80)

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition

There are 8 unique types of molecules in this entry. The entry contains 6969 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 MHC class I antigen.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	277	Total	C	N	O	S	0	10	0
			2316	1432	418	456	10			
1	C	277	Total	C	N	O	S	0	5	0
			2274	1409	408	449	8			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	167	SER	CYS	engineered mutation	UNP A0A1E1GJG5
C	167	SER	CYS	engineered mutation	UNP A0A1E1GJG5

- Molecule 2 is a protein called Beta-2-microglobulin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	100	Total	C	N	O	S	0	1	0
			838	532	145	157	4			
2	D	100	Total	C	N	O	S	0	1	0
			838	532	145	157	4			

- Molecule 3 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Zn	0	1
			3	3		
3	C	4	Total	Zn	0	0
			4	4		

- Molecule 4 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



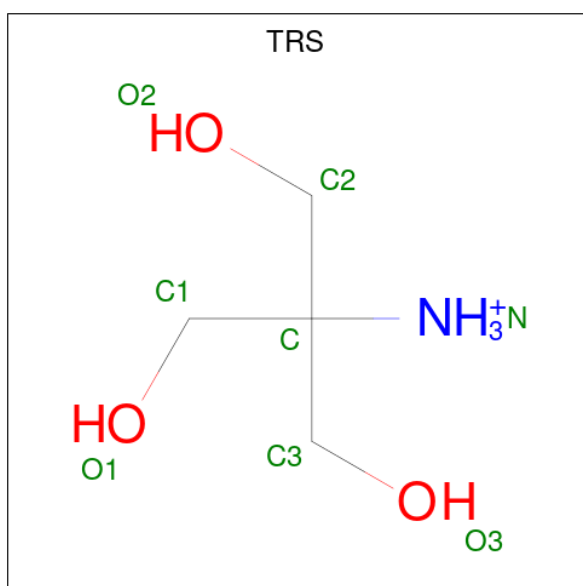
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	A	1	Total	C	O	0	0
			4	2	2		
4	B	1	Total	C	O	0	0
			4	2	2		
4	B	1	Total	C	O	0	0
			4	2	2		
4	B	1	Total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

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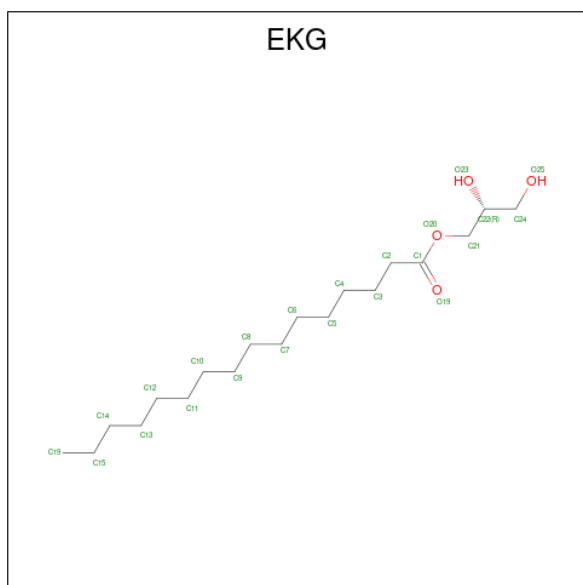
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	C	1	Total C O 4 2 2	0	0
4	C	1	Total C O 4 2 2	0	0
4	C	1	Total C O 4 2 2	0	0
4	C	1	Total C O 4 2 2	0	0
4	C	1	Total C O 4 2 2	0	0
4	C	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0
4	D	1	Total C O 4 2 2	0	0

- Molecule 5 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (CCD ID: TRS) (formula: $C_4H_{12}NO_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	N	O	0	0
			8	4	1	3		
5	C	1	Total	C	N	O	0	0
			8	4	1	3		

- Molecule 6 is (2R)-2,3-dihydroxypropyl hexadecanoate (CCD ID: EKG) (formula: C₁₉H₃₈O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
6	A	1	Total	C	O	0	0
			23	19	4		
6	C	1	Total	C	O	0	1
			46	38	8		

- Molecule 7 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	C	1	Total	Cl	0	1
			2	2		

- Molecule 8 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	196	Total	O	0	1
			197	197		
8	B	52	Total	O	0	1
			53	53		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	C	193	Total 194	O 194	0	1
8	D	61	Total 61	O 61	0	0

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3 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	251.88Å 46.73Å 84.98Å 90.00° 90.80° 90.00°	Depositor
Resolution (Å)	40.09 – 1.80 40.09 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.0 (40.09-1.80) 99.0 (40.09-1.80)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.75 (at 1.79Å)	Xtriage
Refinement program	PHENIX 1.14 _3260	Depositor
R, R_{free}	0.191 , 0.229 0.192 , 0.229	Depositor DCC
R_{free} test set	4465 reflections (4.83%)	wwPDB-VP
Wilson B-factor (Å ²)	22.1	Xtriage
Anisotropy	0.517	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 40.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.015 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6969	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.50% 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.

4 Model quality [i](#)

4.1 Standard geometry [i](#)

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4.2 Too-close contacts [i](#)

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4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

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

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

4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

4.6 Ligand geometry [i](#)

Of 40 ligands modelled in this entry, 9 are monoatomic - leaving 31 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	EDO	A	309	-	3,3,3	0.46	0	2,2,2	0.50	0
4	EDO	B	101	-	3,3,3	0.44	0	2,2,2	0.46	0
4	EDO	D	102	-	3,3,3	0.40	0	2,2,2	0.68	0
4	EDO	C	313	-	3,3,3	0.56	0	2,2,2	0.54	0
4	EDO	B	103	-	3,3,3	0.46	0	2,2,2	0.40	0
4	EDO	C	309	-	3,3,3	0.48	0	2,2,2	0.38	0
4	EDO	D	105	-	3,3,3	0.62	0	2,2,2	0.15	0
4	EDO	D	101	-	3,3,3	0.42	0	2,2,2	0.37	0
4	EDO	C	314	-	3,3,3	0.39	0	2,2,2	0.45	0
6	EKG	C	316[A]	-	22,22,22	0.19	0	23,23,23	0.22	0
4	EDO	A	306	-	3,3,3	0.45	0	2,2,2	0.22	0
4	EDO	A	308	-	3,3,3	0.39	0	2,2,2	0.37	0
4	EDO	B	102	-	3,3,3	0.49	0	2,2,2	0.33	0
4	EDO	C	310	3	3,3,3	0.05	0	2,2,2	0.11	0
5	TRS	C	315	-	7,7,7	0.29	0	9,9,9	0.47	0
4	EDO	D	106	-	3,3,3	0.49	0	2,2,2	0.54	0
4	EDO	A	303	-	3,3,3	0.39	0	2,2,2	0.40	0
6	EKG	C	316[B]	-	22,22,22	0.19	0	23,23,23	0.22	0
4	EDO	D	104	-	3,3,3	0.49	0	2,2,2	0.56	0
4	EDO	C	312	-	3,3,3	0.48	0	2,2,2	0.10	0
4	EDO	C	305	-	3,3,3	0.51	0	2,2,2	0.19	0
4	EDO	C	311	-	3,3,3	0.43	0	2,2,2	0.55	0
4	EDO	C	306	-	3,3,3	0.53	0	2,2,2	0.25	0
4	EDO	C	308	-	3,3,3	0.46	0	2,2,2	0.30	0
4	EDO	A	304	-	3,3,3	0.48	0	2,2,2	0.10	0
4	EDO	A	305	-	3,3,3	0.38	0	2,2,2	0.33	0
4	EDO	C	307	-	3,3,3	0.49	0	2,2,2	0.38	0
4	EDO	D	103	-	3,3,3	0.47	0	2,2,2	0.38	0
5	TRS	A	310	-	7,7,7	0.39	0	9,9,9	0.81	0
4	EDO	A	307	-	3,3,3	0.43	0	2,2,2	0.29	0
6	EKG	A	311	-	22,22,22	0.82	2 (9%)	23,23,23	1.04	1 (4%)

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	EDO	A	309	-	-	0/1/1/1	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	EDO	B	101	-	-	1/1/1/1	-
4	EDO	D	102	-	-	0/1/1/1	-
4	EDO	C	313	-	-	0/1/1/1	-
4	EDO	B	103	-	-	0/1/1/1	-
4	EDO	C	309	-	-	0/1/1/1	-
4	EDO	D	105	-	-	0/1/1/1	-
4	EDO	D	101	-	-	0/1/1/1	-
4	EDO	C	314	-	-	0/1/1/1	-
6	EKG	C	316[A]	-	-	12/22/22/22	-
4	EDO	A	306	-	-	0/1/1/1	-
4	EDO	A	308	-	-	0/1/1/1	-
4	EDO	B	102	-	-	0/1/1/1	-
4	EDO	C	310	3	-	0/1/1/1	-
5	TRS	C	315	-	-	0/9/9/9	-
4	EDO	D	106	-	-	0/1/1/1	-
4	EDO	A	303	-	-	0/1/1/1	-
6	EKG	C	316[B]	-	-	13/22/22/22	-
4	EDO	D	104	-	-	0/1/1/1	-
4	EDO	C	312	-	-	0/1/1/1	-
4	EDO	C	305	-	-	0/1/1/1	-
4	EDO	C	311	-	-	0/1/1/1	-
4	EDO	C	306	-	-	1/1/1/1	-
4	EDO	C	308	-	-	1/1/1/1	-
4	EDO	A	304	-	-	0/1/1/1	-
4	EDO	A	305	-	-	1/1/1/1	-
4	EDO	C	307	-	-	0/1/1/1	-
4	EDO	D	103	-	-	1/1/1/1	-
5	TRS	A	310	-	-	9/9/9/9	-
4	EDO	A	307	-	-	0/1/1/1	-
6	EKG	A	311	-	-	15/22/22/22	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	A	311	EKG	O20-C1	2.45	1.40	1.33
6	A	311	EKG	O20-C21	-2.10	1.40	1.45

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	311	EKG	O20-C1-C2	2.44	119.26	111.83

There are no chirality outliers.

All (54) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	310	TRS	C2-C-C1-O1
5	A	310	TRS	C3-C-C1-O1
5	A	310	TRS	N-C-C1-O1
5	A	310	TRS	C3-C-C2-O2
5	A	310	TRS	N-C-C2-O2
5	A	310	TRS	C1-C-C3-O3
5	A	310	TRS	C2-C-C3-O3
5	A	310	TRS	N-C-C3-O3
6	A	311	EKG	O20-C21-C22-C24
6	A	311	EKG	O20-C21-C22-O23
6	C	316[A]	EKG	C2-C1-O20-C21
6	C	316[B]	EKG	C21-C22-C24-O25
6	C	316[B]	EKG	O23-C22-C24-O25
6	C	316[A]	EKG	O19-C1-O20-C21
6	A	311	EKG	O19-C1-O20-C21
6	A	311	EKG	C2-C1-O20-C21
6	A	311	EKG	C10-C11-C12-C13
6	C	316[B]	EKG	C7-C8-C9-C10
6	C	316[B]	EKG	C1-C2-C3-C4
6	A	311	EKG	C1-C2-C3-C4
6	C	316[A]	EKG	C5-C6-C7-C8
6	A	311	EKG	C21-C22-C24-O25
6	C	316[B]	EKG	C4-C5-C6-C7
6	A	311	EKG	C9-C10-C11-C12
6	C	316[B]	EKG	C5-C6-C7-C8
6	A	311	EKG	C6-C7-C8-C9
6	A	311	EKG	C3-C4-C5-C6
6	A	311	EKG	C11-C12-C13-C14
6	A	311	EKG	C12-C13-C14-C15
6	C	316[B]	EKG	C11-C10-C9-C8
6	C	316[B]	EKG	C2-C3-C4-C5
6	C	316[A]	EKG	C11-C10-C9-C8
6	C	316[A]	EKG	C12-C13-C14-C15
6	C	316[A]	EKG	C10-C11-C12-C13
6	C	316[B]	EKG	C3-C4-C5-C6
4	B	101	EDO	O1-C1-C2-O2
4	C	308	EDO	O1-C1-C2-O2
6	C	316[A]	EKG	C2-C3-C4-C5
6	C	316[B]	EKG	C13-C14-C15-C19
6	C	316[B]	EKG	C9-C10-C11-C12

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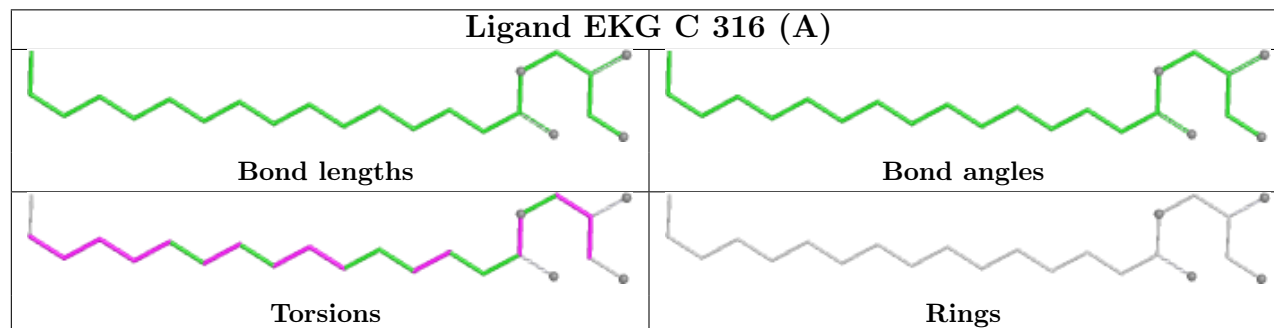
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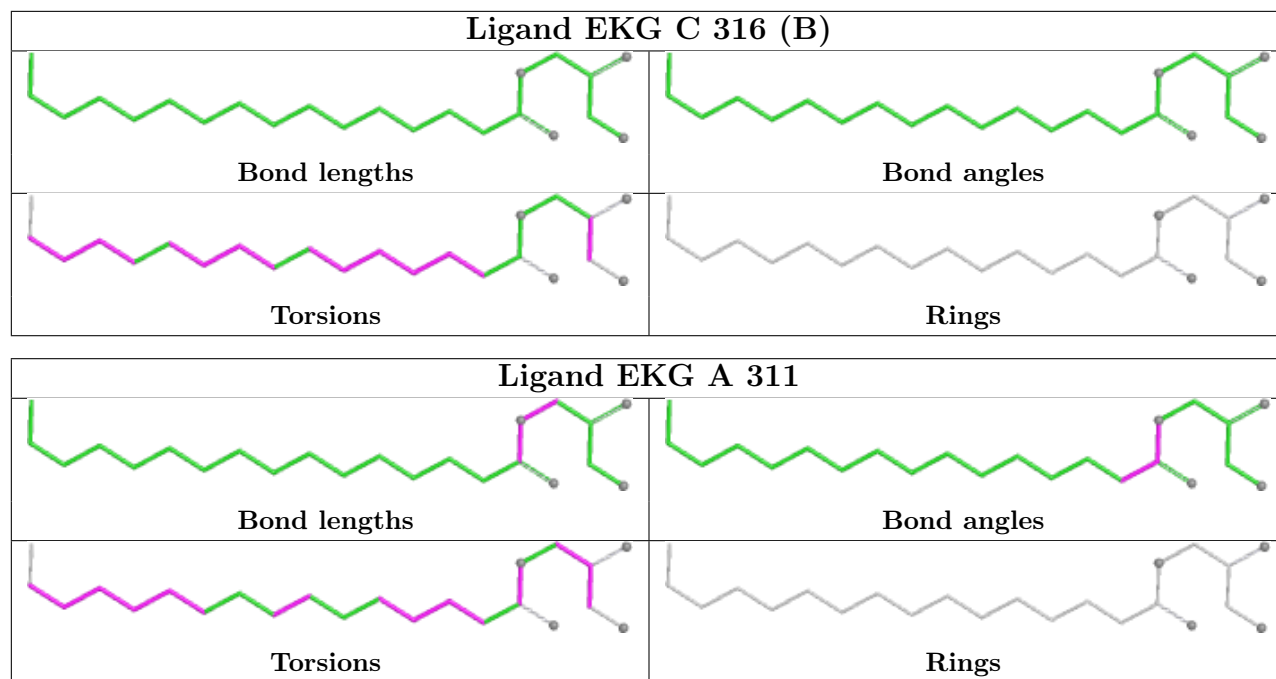
Mol	Chain	Res	Type	Atoms
6	C	316[A]	EKG	C13-C14-C15-C19
6	C	316[A]	EKG	O23-C22-C24-O25
5	A	310	TRS	C1-C-C2-O2
6	C	316[A]	EKG	C6-C7-C8-C9
4	C	306	EDO	O1-C1-C2-O2
6	C	316[B]	EKG	C11-C12-C13-C14
6	C	316[A]	EKG	C11-C12-C13-C14
6	C	316[A]	EKG	O20-C21-C22-O23
6	A	311	EKG	O23-C22-C24-O25
4	A	305	EDO	O1-C1-C2-O2
6	C	316[B]	EKG	C12-C13-C14-C15
6	A	311	EKG	C2-C3-C4-C5
4	D	103	EDO	O1-C1-C2-O2
6	A	311	EKG	C13-C14-C15-C19

There are no ring outliers.

No monomer is involved in short contacts.

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.





4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

5 Fit of model and data [i](#)

5.1 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(Å²)	Q<0.9
1	A	277/277 (100%)	0.30	15 (5%)	31 30	9, 25, 45, 58	10 (3%)
1	C	277/277 (100%)	0.22	16 (5%)	29 27	8, 24, 47, 66	5 (1%)
2	B	100/100 (100%)	1.10	24 (24%)	2 1	15, 35, 64, 80	1 (1%)
2	D	100/100 (100%)	0.47	10 (10%)	12 11	15, 29, 50, 64	1 (1%)
All	All	754/754 (100%)	0.40	65 (8%)	16 14	8, 26, 51, 80	17 (2%)

All (65) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	73	ASN	5.7
2	B	1	ILE	4.7
1	C	276	PRO	4.4
2	D	1	ILE	4.3
2	D	0	ALA	4.2
2	B	71	THR	3.9
1	A	42	SER	3.8
1	A	151	GLY	3.7
2	B	47	GLY	3.6
1	A	149	ALA	3.5
2	B	48	LYS	3.4
1	C	225	THR	3.4
2	B	0	ALA	3.3
2	B	19	LYS	3.3
2	B	44	GLU	3.2
2	B	18	GLY	3.1
2	B	76	ASP	3.1
2	B	17	ASN	3.0
1	C	218	GLN	2.9
2	B	98	ASP	2.9
2	B	43	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
2	B	40	LEU	2.9
1	C	260	HIS	2.9
1	C	221	GLY	2.9
2	B	42	ASN	2.8
2	B	49	VAL	2.8
2	B	73	ASN	2.8
1	A	41	ALA	2.6
1	A	17	ARG	2.6
1	A	154	GLU	2.6
1	C	275	GLU	2.6
1	A	262[A]	GLN	2.5
1	A	142	ASN	2.5
1	C	131	ARG	2.5
2	B	20	PRO	2.5
1	A	145	ARG	2.4
1	C	272	LEU	2.4
2	D	75	LYS	2.4
1	C	222	GLU	2.4
1	A	84	TYR	2.4
2	B	99	MET	2.3
2	D	98	ASP	2.3
1	A	150	ALA	2.3
2	B	45	LYS	2.3
2	D	99	MET	2.3
2	B	75	LYS	2.3
2	B	74	GLU	2.3
1	C	268[A]	GLU	2.2
2	D	76	ASP	2.2
1	A	18	GLY	2.2
2	B	3[A]	ARG	2.2
1	A	225	THR	2.2
1	C	273	ARG	2.2
1	C	262	GLN	2.1
1	C	258	THR	2.1
2	B	92	THR	2.1
2	D	97	ARG	2.1
2	B	78	TYR	2.1
1	C	223	ASP	2.1
2	D	3[A]	ARG	2.1
1	A	197[A]	HIS	2.0
1	C	255	GLN	2.0
1	A	247	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
1	C	41	ALA	2.0
2	D	74	GLU	2.0

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

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

5.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.4 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	EKG	C	316[A]	23/23	0.67	0.23	19,43,55,66	23
6	EKG	C	316[B]	23/23	0.67	0.23	19,43,55,66	23
4	EDO	D	106	4/4	0.72	0.21	31,34,42,46	0
4	EDO	C	311	4/4	0.74	0.17	30,33,40,50	0
6	EKG	A	311	23/23	0.75	0.18	18,46,59,63	0
4	EDO	C	306	4/4	0.79	0.18	29,35,35,42	0
5	TRS	A	310	8/8	0.81	0.16	33,41,42,48	0
4	EDO	D	104	4/4	0.82	0.17	27,38,44,45	0
4	EDO	B	103	4/4	0.83	0.16	39,42,46,47	0
4	EDO	C	312	4/4	0.84	0.27	33,37,41,50	0
4	EDO	D	103	4/4	0.84	0.14	29,32,33,49	0
3	ZN	C	304	1/1	0.85	0.15	86,86,86,86	0
4	EDO	A	305	4/4	0.87	0.16	27,32,34,37	0
4	EDO	C	308	4/4	0.87	0.14	34,38,41,48	0
4	EDO	C	309	4/4	0.87	0.18	28,33,33,41	0
4	EDO	A	303	4/4	0.87	0.18	36,39,40,46	0
4	EDO	C	310	4/4	0.88	0.18	28,31,37,44	0
4	EDO	A	308	4/4	0.90	0.13	36,42,45,46	0
4	EDO	D	102	4/4	0.90	0.15	33,37,39,42	0
5	TRS	C	315	8/8	0.90	0.10	25,30,34,35	0
4	EDO	D	105	4/4	0.91	0.14	26,28,33,42	0

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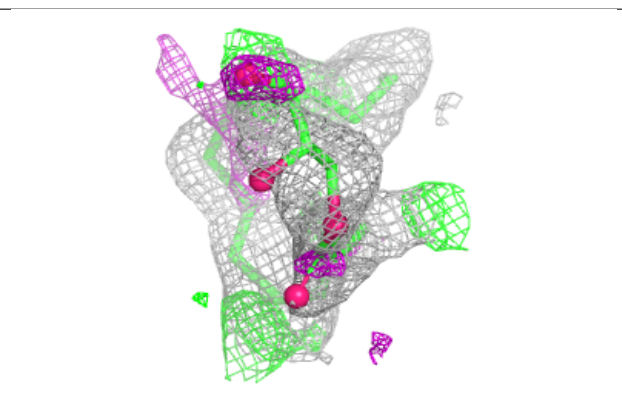
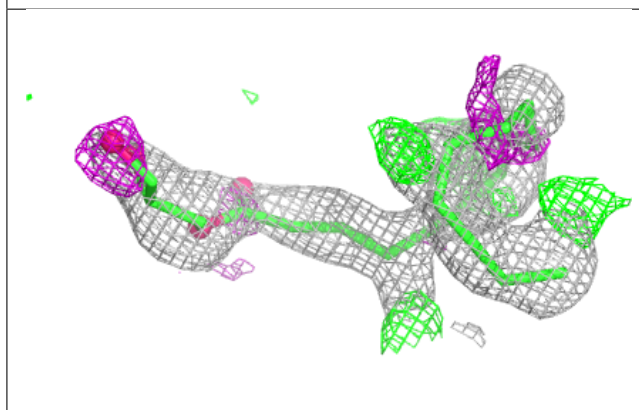
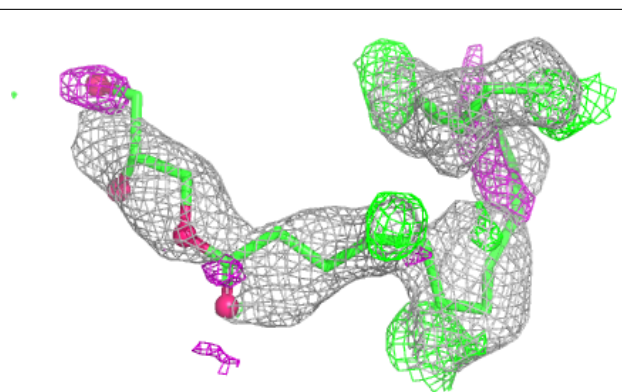
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	EDO	C	307	4/4	0.92	0.10	25,26,28,33	0
4	EDO	D	101	4/4	0.92	0.11	22,32,32,41	0
4	EDO	C	313	4/4	0.93	0.10	18,22,28,31	0
4	EDO	B	101	4/4	0.93	0.11	27,30,41,42	0
4	EDO	A	304	4/4	0.93	0.12	29,30,34,35	0
4	EDO	A	309	4/4	0.93	0.09	27,30,32,34	0
4	EDO	C	314	4/4	0.94	0.11	25,28,28,37	0
4	EDO	A	306	4/4	0.94	0.08	33,33,37,40	0
7	CL	C	317[A]	1/1	0.94	0.09	32,32,32,32	1
7	CL	C	317[B]	1/1	0.94	0.09	36,36,36,36	1
4	EDO	A	307	4/4	0.95	0.09	22,29,32,39	0
3	ZN	C	302	1/1	0.96	0.06	32,32,32,32	0
4	EDO	C	305	4/4	0.96	0.13	23,26,28,31	0
4	EDO	B	102	4/4	0.96	0.05	23,28,30,32	0
3	ZN	C	303	1/1	0.99	0.04	25,25,25,25	0
3	ZN	A	301[B]	1/1	0.99	0.03	16,16,16,16	1
3	ZN	A	302	1/1	0.99	0.03	19,19,19,19	0
3	ZN	C	301	1/1	0.99	0.02	20,20,20,20	0
3	ZN	A	301[A]	1/1	0.99	0.03	17,17,17,17	1

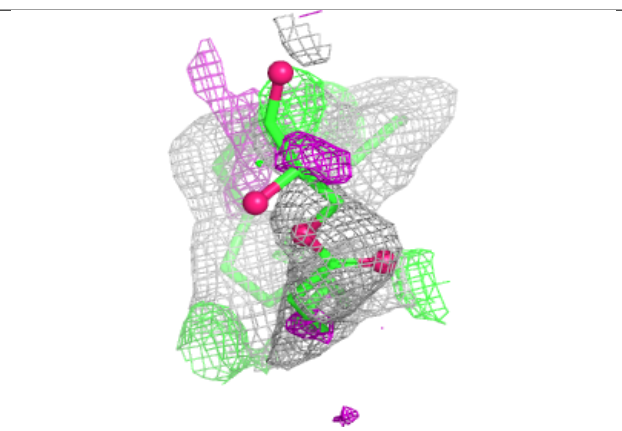
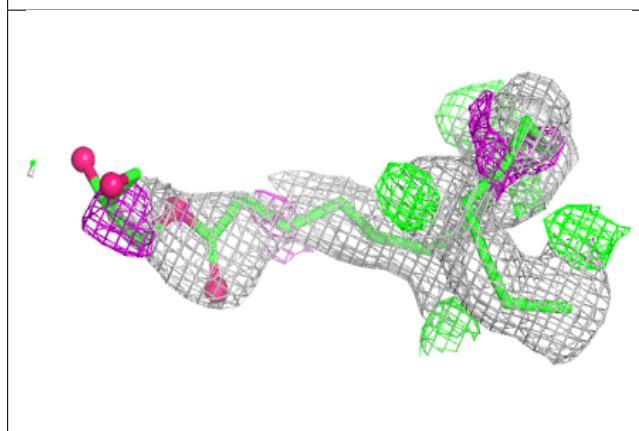
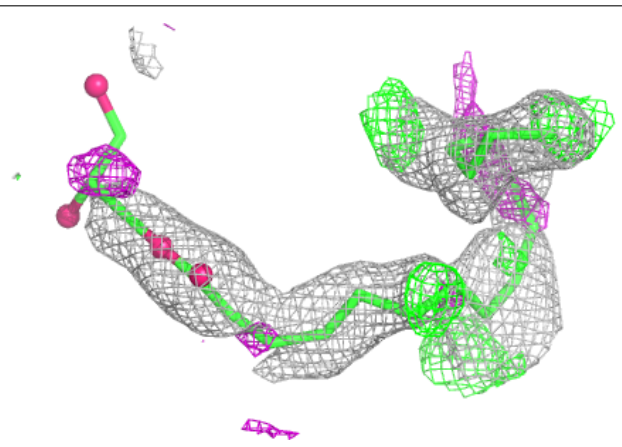
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

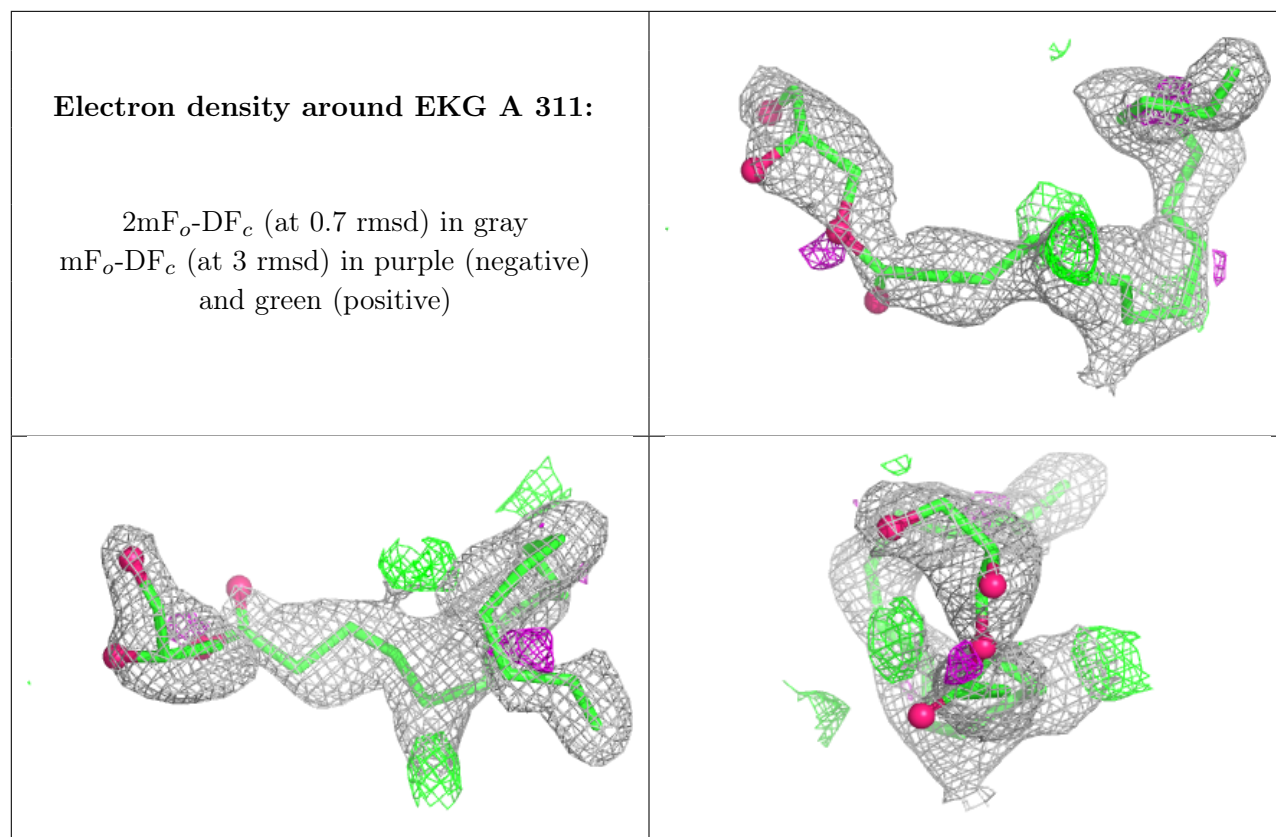
Electron density around EKG C 316 (A):

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

**Electron density around EKG C 316 (B):**

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





5.5 Other polymers ⓘ

There are no such residues in this entry.