



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:55 PM UTC

PDB ID : 5EC2 / pdb_00005ec2
Title : KcsA with V76ester+G77dA mutations
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Deposited on : 2015-10-20
Resolution : 2.30 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)
Xtrriage (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

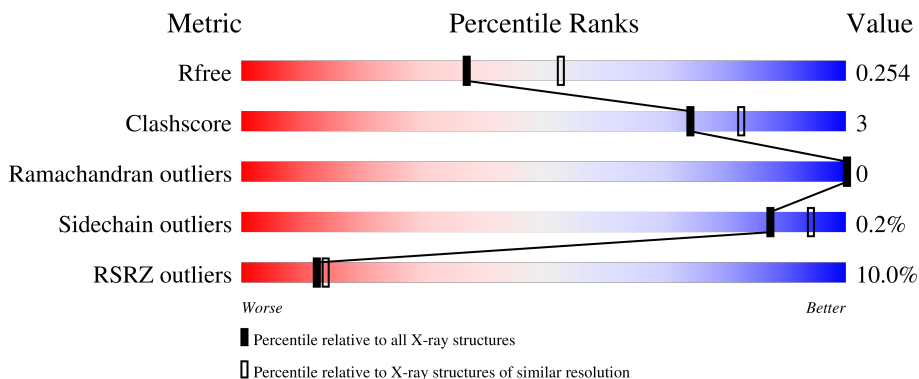
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	6319 (2.30-2.30)
Clashscore	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	219	 11% 94% 6%
2	B	212	 9% 88% 12%
3	C	125	 8% 78% 18%

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 4193 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 Antibody Fab Fragment Light Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	219	1628	1028	270	324	6	0	0	0

- Molecule 2 is a protein called Antibody Fab Fragment Light Chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	212	1641	1019	281	336	5	0	0	0

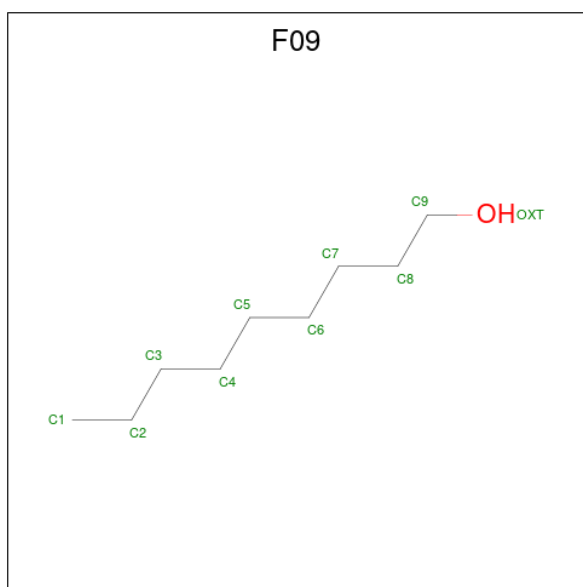
- Molecule 3 is a protein called pH-gated potassium channel KcsA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	102	759	497	130	129	3	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

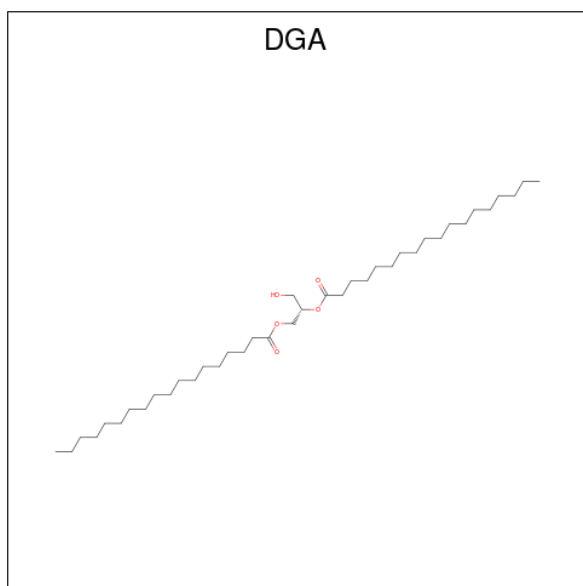
Chain	Residue	Modelled	Actual	Comment	Reference
C	2	ALA	PRO	engineered mutation	UNP P0A334
C	69	ALA	SER	engineered mutation	UNP P0A334
C	70	CYS	VAL	engineered mutation	UNP P0A334
C	76	LHV	VAL	engineered mutation	UNP P0A334
C	77	DAL	GLY	engineered mutation	UNP P0A334
C	82	CYS	TYR	engineered mutation	UNP P0A334

- Molecule 4 is NONAN-1-OL (CCD ID: F09) (formula: C₉H₂₀O).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			10	9	1		

- Molecule 5 is DIACYL GLYCEROL (CCD ID: DGA) (formula: C₃₉H₇₆O₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	C	1	Total	C	O	0	0
			31	26	5		

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	C	6	Total K 6 6	0	0

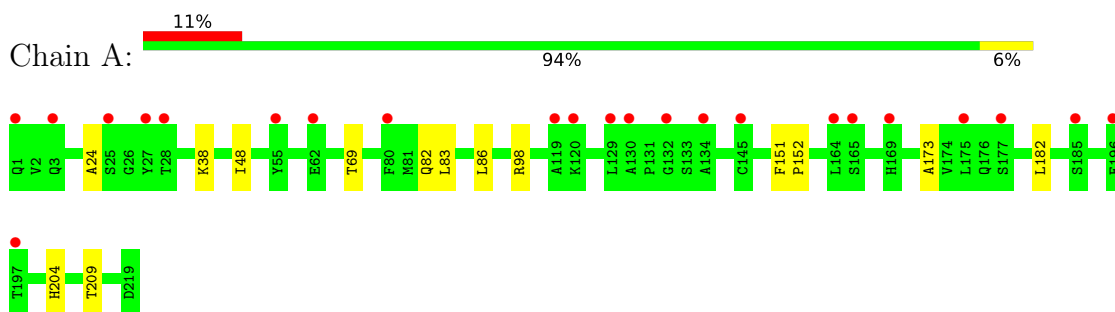
- Molecule 7 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	43	Total O 43 43	0	0
7	B	55	Total O 55 55	0	0
7	C	20	Total O 20 20	0	0

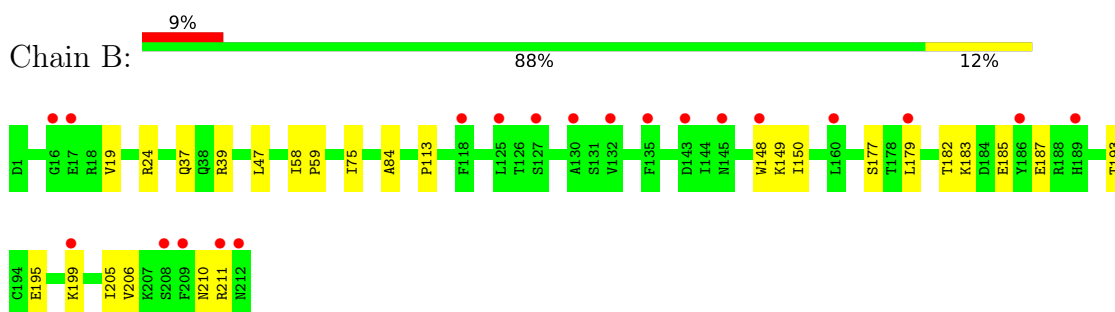
3 Residue-property plots

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.

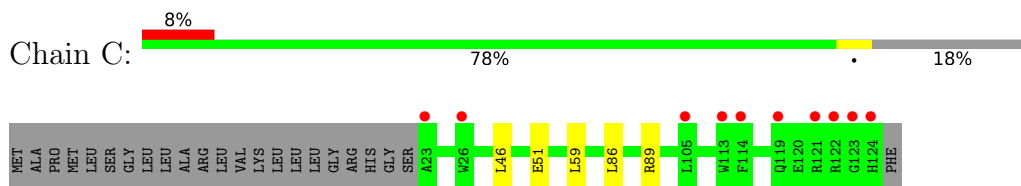
- Molecule 1: Antibody Fab Fragment Light Chain



- Molecule 2: Antibody Fab Fragment Light Chain



- Molecule 3: pH-gated potassium channel KcsA



4 Data and refinement statistics

Property	Value	Source
Space group	I 4	Depositor
Cell constants a, b, c, α , β , γ	154.87Å 154.87Å 75.70Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	36.50 – 2.30 36.50 – 2.30	Depositor EDS
% Data completeness (in resolution range)	89.9 (36.50-2.30) 89.2 (36.50-2.30)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.24 (at 2.29Å)	Xtrriage
Refinement program	PHENIX 1.8_1069	Depositor
R, R_{free}	0.230 , 0.259 0.227 , 0.254	Depositor DCC
R_{free} test set	4039 reflections (10.10%)	wwPDB-VP
Wilson B-factor (Å ²)	44.0	Xtrriage
Anisotropy	0.123	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 31.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.028 for -k,-h,-l	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	4193	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.45% 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: LHV, DGA, F09, DAL, K

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	0.26	0/1672	0.72	0/2291
2	B	0.24	0/1678	0.67	0/2278
3	C	0.29	0/765	0.71	0/1050
All	All	0.26	0/4115	0.70	0/5619

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	1628	0	1566	7	0
2	B	1641	0	1558	14	0
3	C	759	0	765	4	0
4	A	10	0	20	1	0
5	C	31	0	44	2	0
6	C	6	0	0	0	0
7	A	43	0	0	0	0
7	B	55	0	0	1	0
7	C	20	0	0	0	0
All	All	4193	0	3953	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.

All (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:83:LEU:HB3	1:A:86:LEU:HD21	1.78	0.66
1:A:38:LYS:HB2	1:A:48:ILE:HD11	1.84	0.59
2:B:37:GLN:HB2	2:B:47:LEU:HD11	1.85	0.58
2:B:187:GLU:OE1	2:B:211:ARG:NH2	2.39	0.56
1:A:173:ALA:HB2	1:A:182:LEU:HD23	1.87	0.55
2:B:24:ARG:NH1	7:B:302:HOH:O	2.42	0.53
2:B:183:LYS:O	2:B:187:GLU:HG2	2.09	0.52
2:B:19:VAL:HG12	2:B:75:ILE:HB	1.91	0.51
2:B:195:GLU:HG3	2:B:206:VAL:HG22	1.92	0.51
1:A:69:THR:HB	1:A:82:GLN:HB3	1.93	0.50
2:B:150:ILE:HD11	2:B:179:LEU:HD21	1.96	0.47
3:C:51:GLU:HG3	3:C:59:LEU:HB3	1.96	0.47
4:A:2001:F09:H21	3:C:46:LEU:HD13	1.97	0.47
3:C:89:ARG:HH11	5:C:1001:DGA:HA22	1.80	0.45
2:B:182:THR:HG23	2:B:185:GLU:H	1.82	0.45
2:B:148:TRP:HE1	2:B:177:SER:HG	1.59	0.45
1:A:204:HIS:HB3	1:A:209:THR:HB	2.00	0.44
2:B:113:PRO:HG2	2:B:205:ILE:HD12	2.01	0.43
2:B:58:ILE:HA	2:B:59:PRO:HD2	1.88	0.43
1:A:151:PHE:HA	1:A:152:PRO:HA	1.78	0.42
1:A:24:ALA:HB1	1:A:98:ARG:HH21	1.83	0.42
2:B:149:LYS:HB2	2:B:193:THR:HB	2.02	0.42
2:B:199:LYS:HE3	2:B:199:LYS:HB2	1.96	0.41
2:B:39:ARG:HG2	2:B:84:ALA:HB2	2.02	0.41
3:C:86:LEU:HD13	5:C:1001:DGA:HA31	2.03	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	217/219 (99%)	206 (95%)	11 (5%)	0	100	100
2	B	210/212 (99%)	204 (97%)	6 (3%)	0	100	100
3	C	97/125 (78%)	97 (100%)	0	0	100	100
All	All	524/556 (94%)	507 (97%)	17 (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	180/185 (97%)	180 (100%)	0	100	100
2	B	187/190 (98%)	186 (100%)	1 (0%)	81	90
3	C	71/90 (79%)	71 (100%)	0	100	100
All	All	438/465 (94%)	437 (100%)	1 (0%)	87	94

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	210	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	169	HIS
1	A	204	HIS
2	B	137	ASN
2	B	138	ASN
2	B	161	ASN
2	B	190	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](#)

2 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	LHV	C	76	6,3	5,6,7	0.79	0	5,7,9	0.56	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
3	LHV	C	76	6,3	-	0/5/6/8	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 8 ligands modelled in this entry, 6 are monoatomic - leaving 2 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
5	DGA	C	1001	-	30,30,43	1.10	2 (6%)	32,32,45	1.40	3 (9%)
4	F09	A	2001	-	9,9,9	0.19	0	8,8,8	0.60	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	DGA	C	1001	-	-	17/32/32/45	-
4	F09	A	2001	-	-	3/7/7/7	-

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C	1001	DGA	OG2-CB1	3.96	1.45	1.34
5	C	1001	DGA	OG1-CA1	3.87	1.44	1.33

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	C	1001	DGA	OG2-CB1-CB2	4.16	120.49	111.48
5	C	1001	DGA	OG1-CA1-CA2	3.84	123.54	111.83
5	C	1001	DGA	OG1-CA1-OA1	-3.55	114.75	123.63

There are no chirality outliers.

All (20) torsion outliers are listed below:

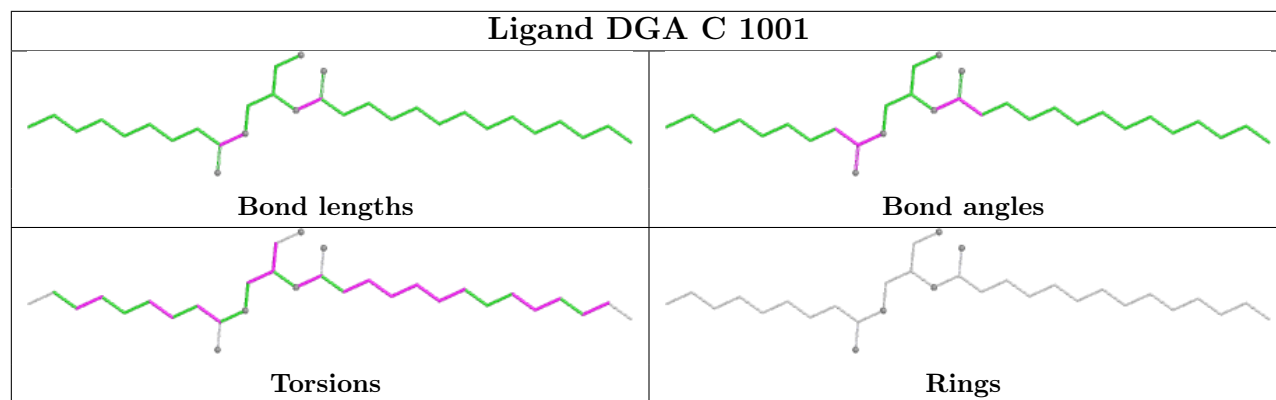
Mol	Chain	Res	Type	Atoms
5	C	1001	DGA	CB2-CB1-OG2-CG2
5	C	1001	DGA	CG1-CG2-CG3-OXT
5	C	1001	DGA	OG2-CG2-CG3-OXT
5	C	1001	DGA	OB1-CB1-OG2-CG2
5	C	1001	DGA	OG1-CG1-CG2-OG2
5	C	1001	DGA	CB1-CB2-CB3-CB4
5	C	1001	DGA	CB3-CB4-CB5-CB6
5	C	1001	DGA	CB5-CB6-CB7-CB8
5	C	1001	DGA	CA2-CA3-CA4-CA5
5	C	1001	DGA	CB4-CB5-CB6-CB7
5	C	1001	DGA	CBB-CAB-CB9-CB8
4	A	2001	F09	C7-C8-C9-OXT
4	A	2001	F09	C3-C4-C5-C6
4	A	2001	F09	C2-C3-C4-C5
5	C	1001	DGA	CBB-CCB-CDB-CEB
5	C	1001	DGA	OG1-CG1-CG2-CG3
5	C	1001	DGA	CB2-CB3-CB4-CB5
5	C	1001	DGA	CA5-CA6-CA7-CA8
5	C	1001	DGA	OG1-CA1-CA2-CA3
5	C	1001	DGA	CB9-CAB-CBB-CCB

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	C	1001	DGA	2	0
4	A	2001	F09	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	219/219 (100%)	0.96	23 (10%) 11 13	30, 56, 74, 93	0
2	B	212/212 (100%)	0.72	20 (9%) 14 15	25, 53, 81, 99	0
3	C	100/125 (80%)	0.39	10 (10%) 12 14	23, 32, 70, 83	0
All	All	531/556 (95%)	0.76	53 (9%) 12 14	23, 52, 78, 99	0

All (53) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	134	ALA	4.1
2	B	145	ASN	3.9
2	B	125	LEU	3.4
3	C	113	TRP	3.3
1	A	185	SER	3.3
2	B	127	SER	3.3
1	A	132	GLY	3.3
2	B	208	SER	3.2
1	A	177	SER	3.2
1	A	27	TYR	3.2
2	B	118	PHE	3.2
1	A	164	LEU	3.1
3	C	114	PHE	3.0
3	C	121	ARG	3.0
3	C	122	ARG	3.0
2	B	212	ASN	3.0
2	B	209	PHE	2.8
1	A	28	THR	2.8
1	A	62	GLU	2.8
3	C	119	GLN	2.8
3	C	23	ALA	2.7
1	A	129	LEU	2.7
1	A	169	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	3	GLN	2.6
2	B	143	ASP	2.6
2	B	179	LEU	2.5
2	B	186	TYR	2.5
3	C	105	LEU	2.5
3	C	26	TRP	2.5
1	A	120	LYS	2.5
1	A	197	THR	2.5
2	B	199	LYS	2.4
2	B	130	ALA	2.4
1	A	55	TYR	2.3
3	C	124	HIS	2.3
1	A	175	LEU	2.3
1	A	165	SER	2.3
1	A	1	GLN	2.3
2	B	211	ARG	2.3
1	A	25	SER	2.2
2	B	148	TRP	2.2
1	A	196	GLU	2.2
2	B	160	LEU	2.2
1	A	80	PHE	2.2
2	B	132	VAL	2.1
1	A	130	ALA	2.1
2	B	189	HIS	2.1
1	A	119	ALA	2.1
2	B	135	PHE	2.1
2	B	16	GLY	2.1
2	B	17	GLU	2.1
3	C	123	GLY	2.1
1	A	145	CYS	2.0

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	DAL	C	77	5/6	0.95	0.07	18,26,29,30	0
3	LHV	C	76	7/8	0.96	0.09	23,24,26,27	0

6.3 Carbohydrates [i](#)

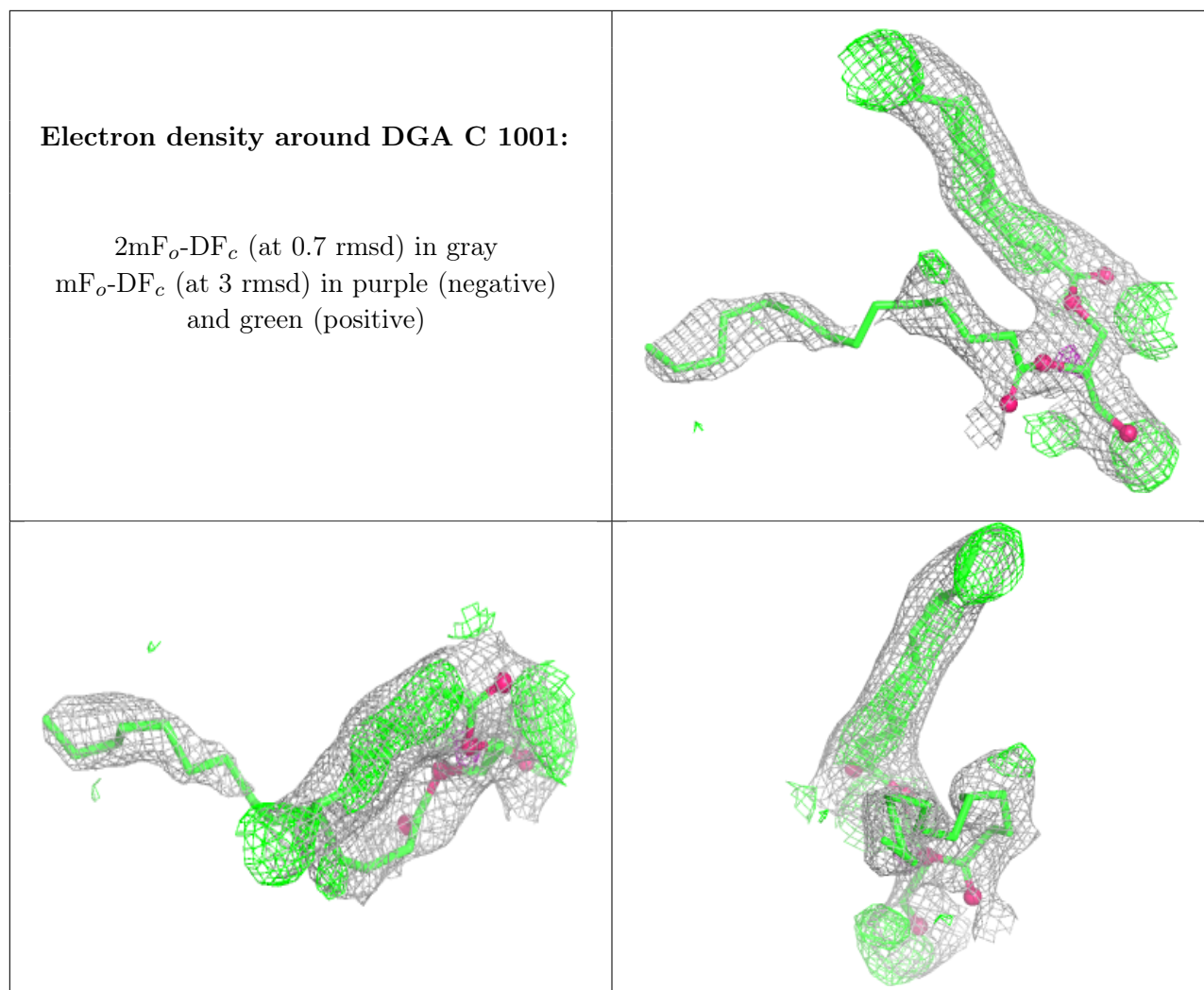
There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	DGA	C	1001	31/44	0.71	0.28	66,68,72,75	0
4	F09	A	2001	10/10	0.79	0.23	61,61,62,62	0
6	K	C	1007	1/1	0.83	0.13	84,84,84,84	1
6	K	C	1003	1/1	0.97	0.11	47,47,47,47	1
6	K	C	1006	1/1	0.98	0.23	47,47,47,47	1
6	K	C	1005	1/1	0.99	0.03	26,26,26,26	1
6	K	C	1002	1/1	0.99	0.04	37,37,37,37	1
6	K	C	1004	1/1	0.99	0.02	26,26,26,26	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.



6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.