



# wwPDB X-ray Structure Validation Summary Report ⓘ

May 17, 2021 – 03:05 pm BST

PDB ID : 6Z2C  
Title : Engineered lipocalin C3A5 in complex with a transition state analog  
Authors : Skerra, A.; Eichinger, A.  
Deposited on : 2020-05-15  
Resolution : 1.80 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](mailto: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.

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The following versions of software and data (see [references ⓘ](#)) 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 : 2.18  
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) : 2.18

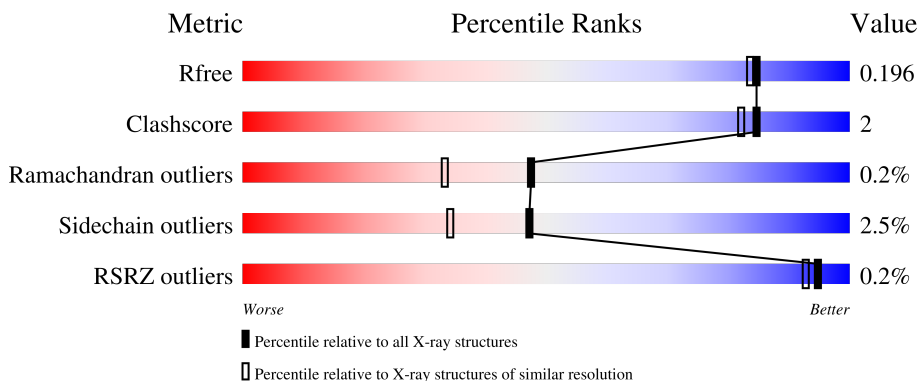
# 1 Overall quality at a glance

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))
$R_{free}$	130704	5950 (1.80-1.80)
Clashscore	141614	6793 (1.80-1.80)
Ramachandran outliers	138981	6697 (1.80-1.80)
Sidechain outliers	138945	6696 (1.80-1.80)
RSRZ outliers	127900	5850 (1.80-1.80)

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  $\geq 3$ , 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	188	 87% 6% • 5%
1	B	188	 87% 5% •• 6%
1	C	188	 91% • 6%

## 2 Entry composition i

There are 3 unique types of molecules in this entry. The entry contains 4718 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 Neutrophil gelatinase-associated lipocalin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	178	1476	955	244	272	5	0	3	0
1	B	177	1445	938	240	262	5	0	0	0
1	C	176	1447	939	241	262	5	0	1	0

There are 93 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	28	HIS	GLN	engineered mutation	UNP P80188
A	36	MET	LEU	engineered mutation	UNP P80188
A	40	GLY	ALA	engineered mutation	UNP P80188
A	41	ASP	ILE	engineered mutation	UNP P80188
A	49	TYR	GLN	engineered mutation	UNP P80188
A	52	ARG	TYR	engineered mutation	UNP P80188
A	68	TRP	SER	engineered mutation	UNP P80188
A	70	TRP	LEU	engineered mutation	UNP P80188
A	72	LEU	ARG	engineered mutation	UNP P80188
A	73	PRO	LYS	engineered mutation	UNP P80188
A	77	LYS	ASP	engineered mutation	UNP P80188
A	79	PHE	TRP	engineered mutation	UNP P80188
A	81	ASN	ARG	engineered mutation	UNP P80188
A	87	SER	CYS	engineered mutation	UNP P80188
A	96	LEU	ASN	engineered mutation	UNP P80188
A	103	GLN	LEU	engineered mutation	UNP P80188
A	106	LEU	TYR	engineered mutation	UNP P80188
A	125	THR	LYS	engineered mutation	UNP P80188
A	127	ILE	SER	engineered mutation	UNP P80188
A	132	ARG	TYR	engineered mutation	UNP P80188
A	134	TYR	LYS	engineered mutation	UNP P80188
A	179	SER	-	expression tag	UNP P80188
A	180	ALA	-	expression tag	UNP P80188

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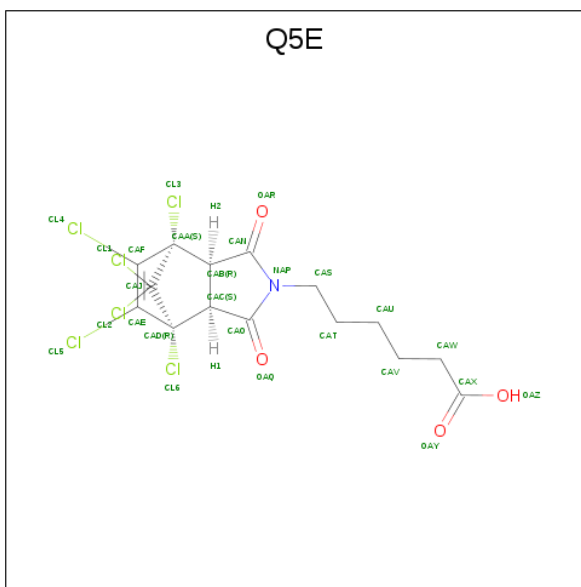
Chain	Residue	Modelled	Actual	Comment	Reference
A	181	TRP	-	expression tag	UNP P80188
A	182	SER	-	expression tag	UNP P80188
A	183	HIS	-	expression tag	UNP P80188
A	184	PRO	-	expression tag	UNP P80188
A	185	GLN	-	expression tag	UNP P80188
A	186	PHE	-	expression tag	UNP P80188
A	187	GLU	-	expression tag	UNP P80188
A	188	LYS	-	expression tag	UNP P80188
B	28	HIS	GLN	engineered mutation	UNP P80188
B	36	MET	LEU	engineered mutation	UNP P80188
B	40	GLY	ALA	engineered mutation	UNP P80188
B	41	ASP	ILE	engineered mutation	UNP P80188
B	49	TYR	GLN	engineered mutation	UNP P80188
B	52	ARG	TYR	engineered mutation	UNP P80188
B	68	TRP	SER	engineered mutation	UNP P80188
B	70	TRP	LEU	engineered mutation	UNP P80188
B	72	LEU	ARG	engineered mutation	UNP P80188
B	73	PRO	LYS	engineered mutation	UNP P80188
B	77	LYS	ASP	engineered mutation	UNP P80188
B	79	PHE	TRP	engineered mutation	UNP P80188
B	81	ASN	ARG	engineered mutation	UNP P80188
B	87	SER	CYS	engineered mutation	UNP P80188
B	96	LEU	ASN	engineered mutation	UNP P80188
B	103	GLN	LEU	engineered mutation	UNP P80188
B	106	LEU	TYR	engineered mutation	UNP P80188
B	125	THR	LYS	engineered mutation	UNP P80188
B	127	ILE	SER	engineered mutation	UNP P80188
B	132	ARG	TYR	engineered mutation	UNP P80188
B	134	TYR	LYS	engineered mutation	UNP P80188
B	179	SER	-	expression tag	UNP P80188
B	180	ALA	-	expression tag	UNP P80188
B	181	TRP	-	expression tag	UNP P80188
B	182	SER	-	expression tag	UNP P80188
B	183	HIS	-	expression tag	UNP P80188
B	184	PRO	-	expression tag	UNP P80188
B	185	GLN	-	expression tag	UNP P80188
B	186	PHE	-	expression tag	UNP P80188
B	187	GLU	-	expression tag	UNP P80188
B	188	LYS	-	expression tag	UNP P80188
C	28	HIS	GLN	engineered mutation	UNP P80188
C	36	MET	LEU	engineered mutation	UNP P80188
C	40	GLY	ALA	engineered mutation	UNP P80188

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Chain	Residue	Modelled	Actual	Comment	Reference
C	41	ASP	ILE	engineered mutation	UNP P80188
C	49	TYR	GLN	engineered mutation	UNP P80188
C	52	ARG	TYR	engineered mutation	UNP P80188
C	68	TRP	SER	engineered mutation	UNP P80188
C	70	TRP	LEU	engineered mutation	UNP P80188
C	72	LEU	ARG	engineered mutation	UNP P80188
C	73	PRO	LYS	engineered mutation	UNP P80188
C	77	LYS	ASP	engineered mutation	UNP P80188
C	79	PHE	TRP	engineered mutation	UNP P80188
C	81	ASN	ARG	engineered mutation	UNP P80188
C	87	SER	CYS	engineered mutation	UNP P80188
C	96	LEU	ASN	engineered mutation	UNP P80188
C	103	GLN	LEU	engineered mutation	UNP P80188
C	106	LEU	TYR	engineered mutation	UNP P80188
C	125	THR	LYS	engineered mutation	UNP P80188
C	127	ILE	SER	engineered mutation	UNP P80188
C	132	ARG	TYR	engineered mutation	UNP P80188
C	134	TYR	LYS	engineered mutation	UNP P80188
C	179	SER	-	expression tag	UNP P80188
C	180	ALA	-	expression tag	UNP P80188
C	181	TRP	-	expression tag	UNP P80188
C	182	SER	-	expression tag	UNP P80188
C	183	HIS	-	expression tag	UNP P80188
C	184	PRO	-	expression tag	UNP P80188
C	185	GLN	-	expression tag	UNP P80188
C	186	PHE	-	expression tag	UNP P80188
C	187	GLU	-	expression tag	UNP P80188
C	188	LYS	-	expression tag	UNP P80188

- Molecule 2 is 1,7,8,9,10,10-hexachloro-4-carboxypentyl-4-aza-tricyclo[5.2.1.0(2,6)]dec-8-ene-3,5-dione (three-letter code: Q5E) (formula: C<sub>15</sub>H<sub>13</sub>Cl<sub>6</sub>NO<sub>4</sub>) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	
			Total	C	Cl	N			O
2	A	1	26	15	6	1	4	0	0
2	B	1	26	15	6	1	4	0	0
2	C	1	26	15	6	1	4	0	0

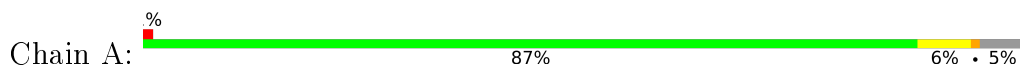
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	A	86	86	86	0	0
3	B	99	99	99	0	0
3	C	87	87	87	0	0

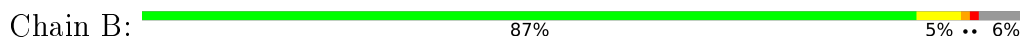
### 3 Residue-property plots [i](#)

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: Neutrophil gelatinase-associated lipocalin



- Molecule 1: Neutrophil gelatinase-associated lipocalin



- Molecule 1: Neutrophil gelatinase-associated lipocalin



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	96.39Å 39.03Å 96.39Å 90.00° 120.00° 90.00°	Depositor
Resolution (Å)	41.74 – 1.80 41.74 – 1.80	Depositor EDS
% Data completeness (in resolution range)	94.8 (41.74-1.80) 94.8 (41.74-1.80)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.13 (at 1.79Å)	Xtriage
Refinement program	REFMAC 5.8.0238	Depositor
R, $R_{free}$	0.161 , 0.190 0.168 , 0.196	Depositor DCC
$R_{free}$ test set	2681 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	16.3	Xtriage
Anisotropy	0.451	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 32.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.39$ , $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	0.430 for -h-l,k,h 0.430 for l,k,-h-l 0.235 for h,-k,-h-l 0.236 for -h-l,-k,l 0.237 for l,-k,h	Xtriage
Reported twinning fraction	0.387 for H, K, L 0.053 for -L, -K, -H 0.039 for -H, -K, H+L 0.143 for L, K, -H-L 0.243 for -H-L, K, H 0.135 for -H-L, -K, L	Depositor
Outliers	0 of 55375 reflections	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	4718	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	21.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.25% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: Q5E

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	0.74	0/1517	0.79	0/2057
1	B	0.75	0/1486	0.81	1/2015 (0.0%)
1	C	0.73	0/1488	0.78	0/2018
All	All	0.74	0/4491	0.79	1/6090 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	77	LYS	CB-CA-C	5.24	120.88	110.40

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	1476	0	1449	6	0
1	B	1445	0	1431	10	0
1	C	1447	0	1431	4	0
2	A	26	0	0	0	0
2	B	26	0	0	0	0
2	C	26	0	0	0	0
3	A	86	0	0	0	1

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	99	0	0	1	0
3	C	87	0	0	1	1
All	All	4718	0	4311	20	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

The worst 5 of 20 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:C:81:ASN:ND2	1:C:100:TYR:OH	1.81	1.14
1:B:150:GLU:OE1	1:B:154:ARG:NH1	2.13	0.82
1:A:59:LYS:HD3	1:A:63:SER:OG	1.94	0.68
1:B:145:THR:OG1	1:B:148:LEU:HD13	1.96	0.65
1:A:59:LYS:CD	1:A:63:SER:OG	2.55	0.55

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:368:HOH:O	3:C:352:HOH:O 2_556]	2.08	0.12

## 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	179/188 (95%)	172 (96%)	6 (3%)	1 (1%)	25	12
1	B	175/188 (93%)	169 (97%)	6 (3%)	0	100	100
1	C	175/188 (93%)	169 (97%)	6 (3%)	0	100	100
All	All	529/564 (94%)	510 (96%)	18 (3%)	1 (0%)	47	33

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	177	ASP

### 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	165/172 (96%)	159 (96%)	6 (4%)	35	20
1	B	162/172 (94%)	156 (96%)	6 (4%)	34	19
1	C	162/172 (94%)	162 (100%)	0	100	100
All	All	489/516 (95%)	477 (98%)	12 (2%)	47	34

5 of 12 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	36	MET
1	B	77	LYS
1	B	150	GLU
1	B	104	THR
1	A	71	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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](#)

3 ligands 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
2	Q5E	B	201	-	25,28,28	3.85	11 (44%)	43,47,47	2.45	14 (32%)
2	Q5E	A	201	-	25,28,28	3.79	12 (48%)	43,47,47	2.28	15 (34%)
2	Q5E	C	201	-	25,28,28	3.53	12 (48%)	43,47,47	2.11	14 (32%)

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	Q5E	B	201	-	-	5/6/74/74	0/4/3/3
2	Q5E	A	201	-	-	2/6/74/74	0/4/3/3
2	Q5E	C	201	-	-	3/6/74/74	0/4/3/3

The worst 5 of 35 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	201	Q5E	CAB-CAN	-9.74	1.38	1.51
2	A	201	Q5E	CAB-CAN	-9.27	1.39	1.51
2	B	201	Q5E	CAJ-CL2	8.68	1.90	1.77
2	A	201	Q5E	CAJ-CL2	8.37	1.90	1.77
2	C	201	Q5E	CAB-CAN	-8.22	1.40	1.51

The worst 5 of 43 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	201	Q5E	CAN-NAP-CAO	-6.29	107.39	113.18
2	B	201	Q5E	CAN-NAP-CAO	-6.06	107.59	113.18
2	B	201	Q5E	CAS-NAP-CAO	5.89	132.76	123.28
2	B	201	Q5E	OAQ-CAO-CAC	-5.51	120.93	127.50
2	C	201	Q5E	CAN-NAP-CAO	-5.50	108.11	113.18

There are no chirality outliers.

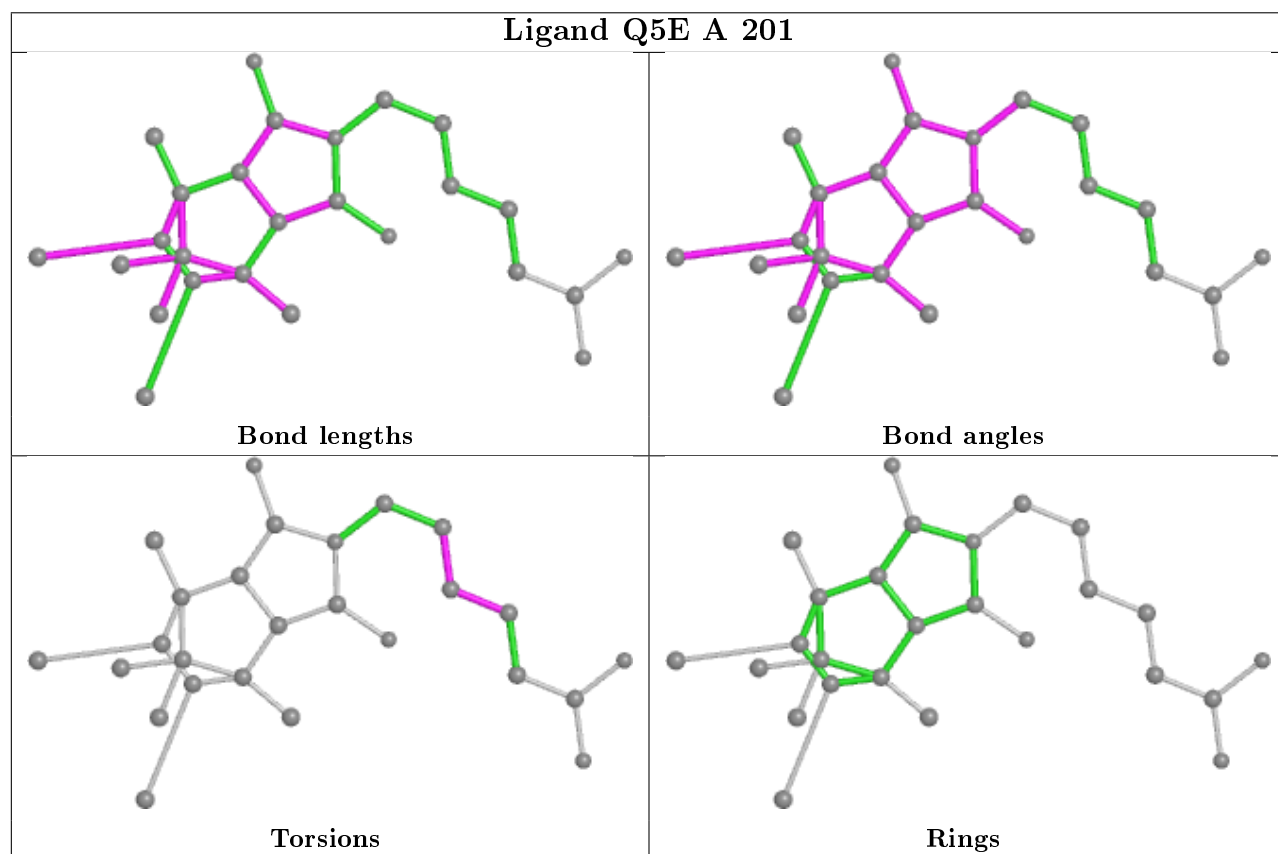
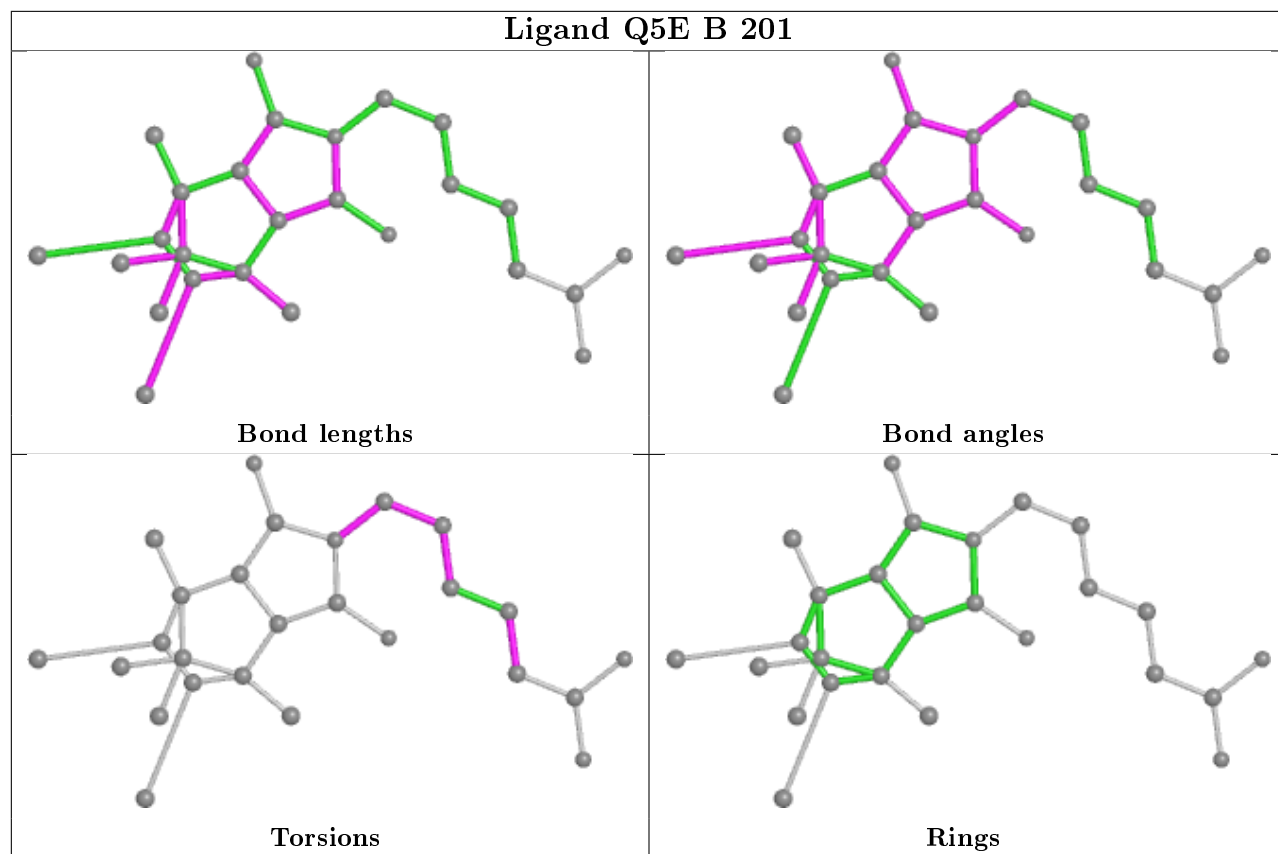
5 of 10 torsion outliers are listed below:

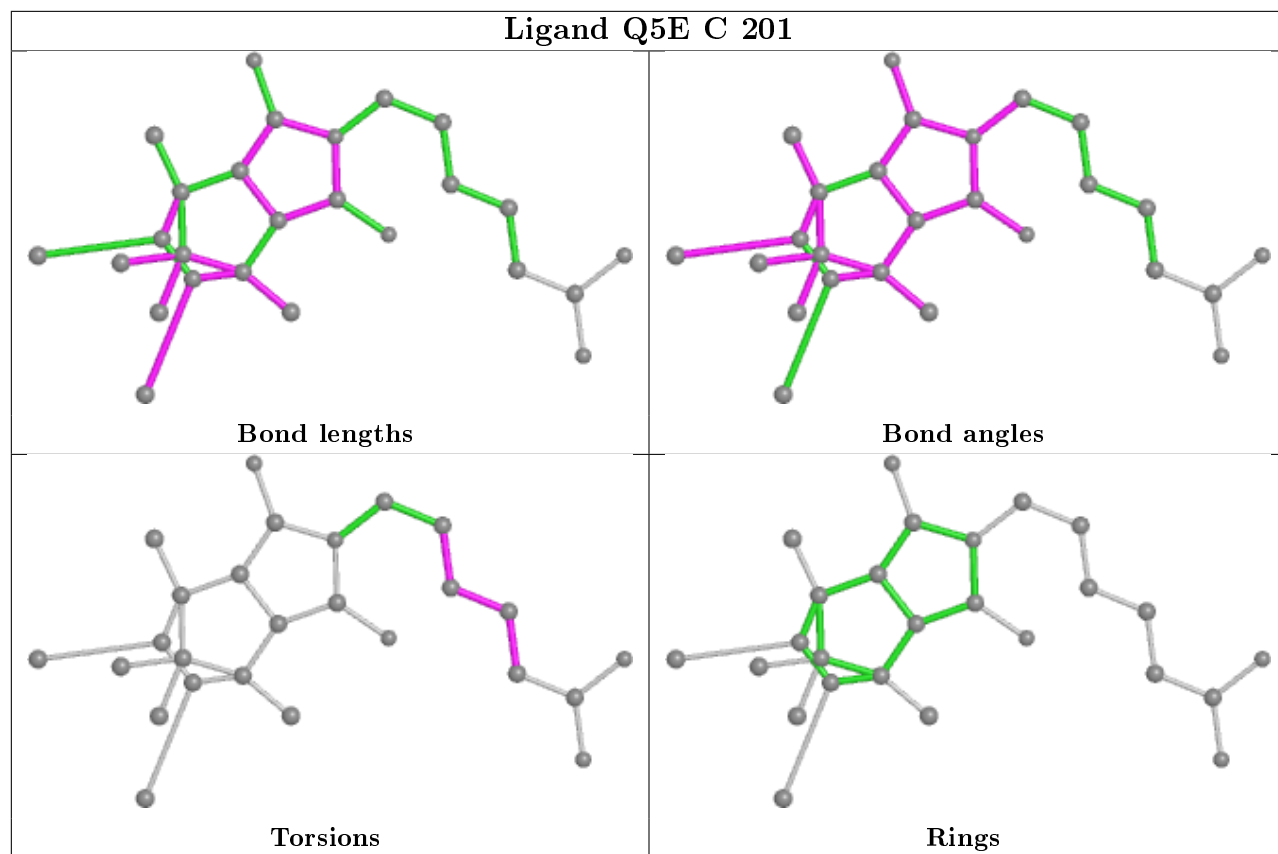
Mol	Chain	Res	Type	Atoms
2	B	201	Q5E	CAU-CAV-CAW-CAX
2	C	201	Q5E	CAU-CAV-CAW-CAX
2	B	201	Q5E	NAP-CAS-CAT-CAU
2	C	201	Q5E	CAT-CAU-CAV-CAW
2	A	201	Q5E	CAS-CAT-CAU-CAV

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.





## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	178/188 (94%)	-0.71	1 (0%) 89   87	13, 20, 34, 55	0
1	B	177/188 (94%)	-0.75	0 100   100	12, 21, 33, 52	0
1	C	176/188 (93%)	-0.76	0 100   100	14, 20, 33, 46	0
All	All	531/564 (94%)	-0.74	1 (0%) 95   93	12, 21, 33, 55	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	178	GLY	2.8

### 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.

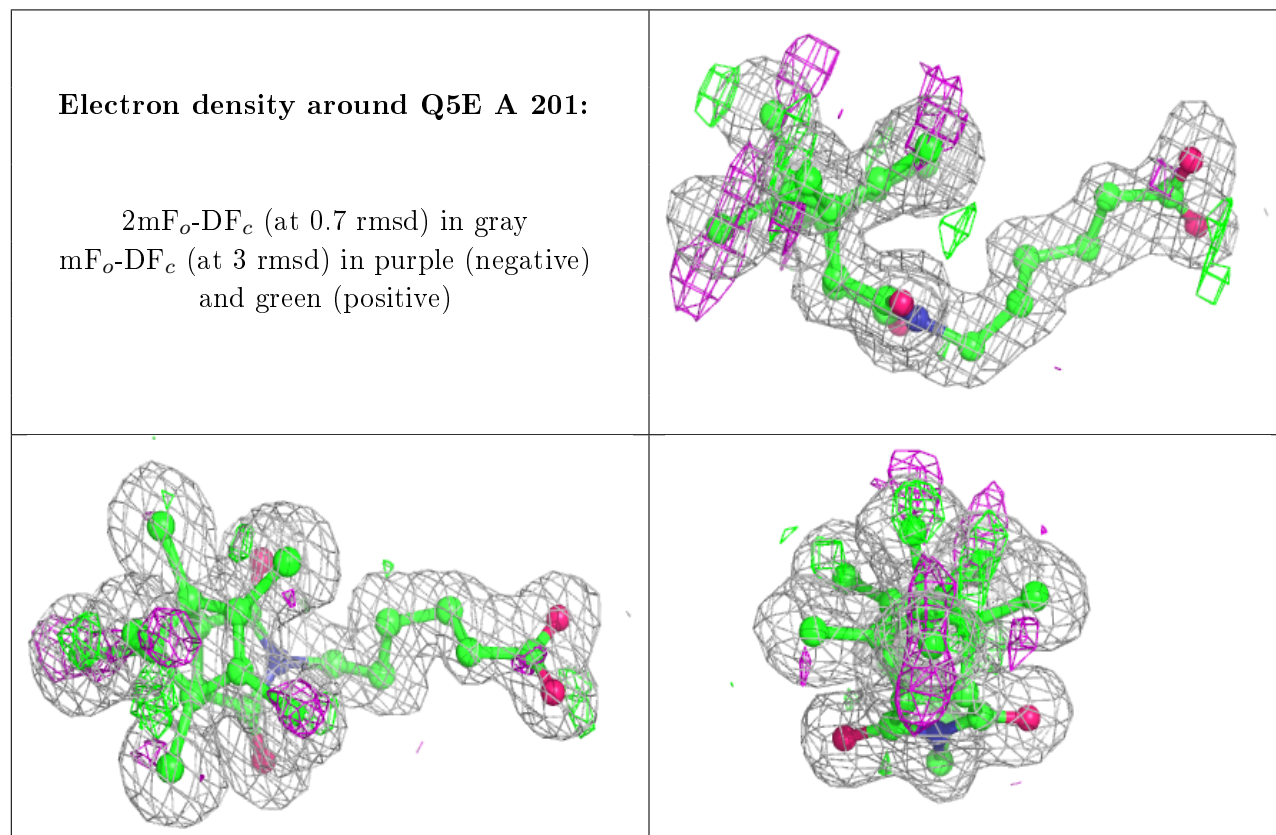
### 6.4 Ligands [i](#)

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
2	Q5E	A	201	26/26	0.98	0.06	11,14,29,31	0
2	Q5E	C	201	26/26	0.98	0.06	12,16,21,24	0
2	Q5E	B	201	26/26	0.99	0.05	9,12,16,24	0

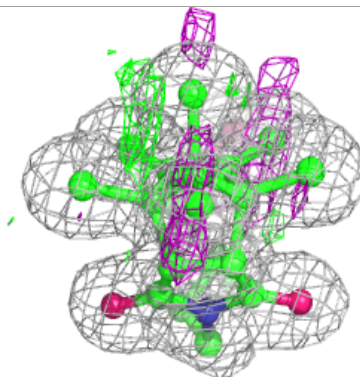
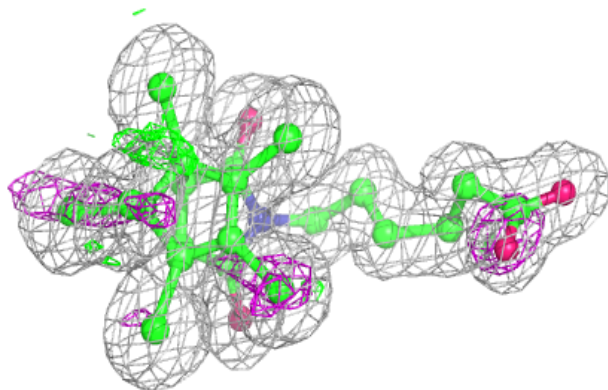
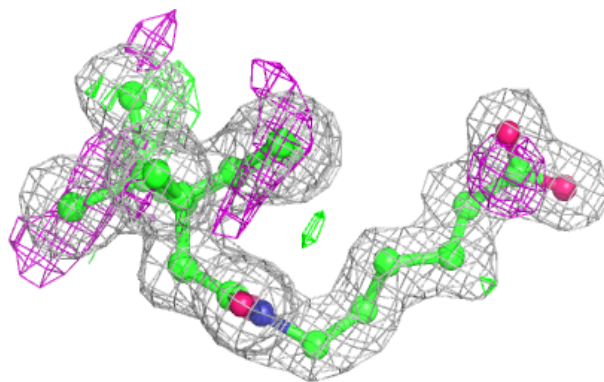


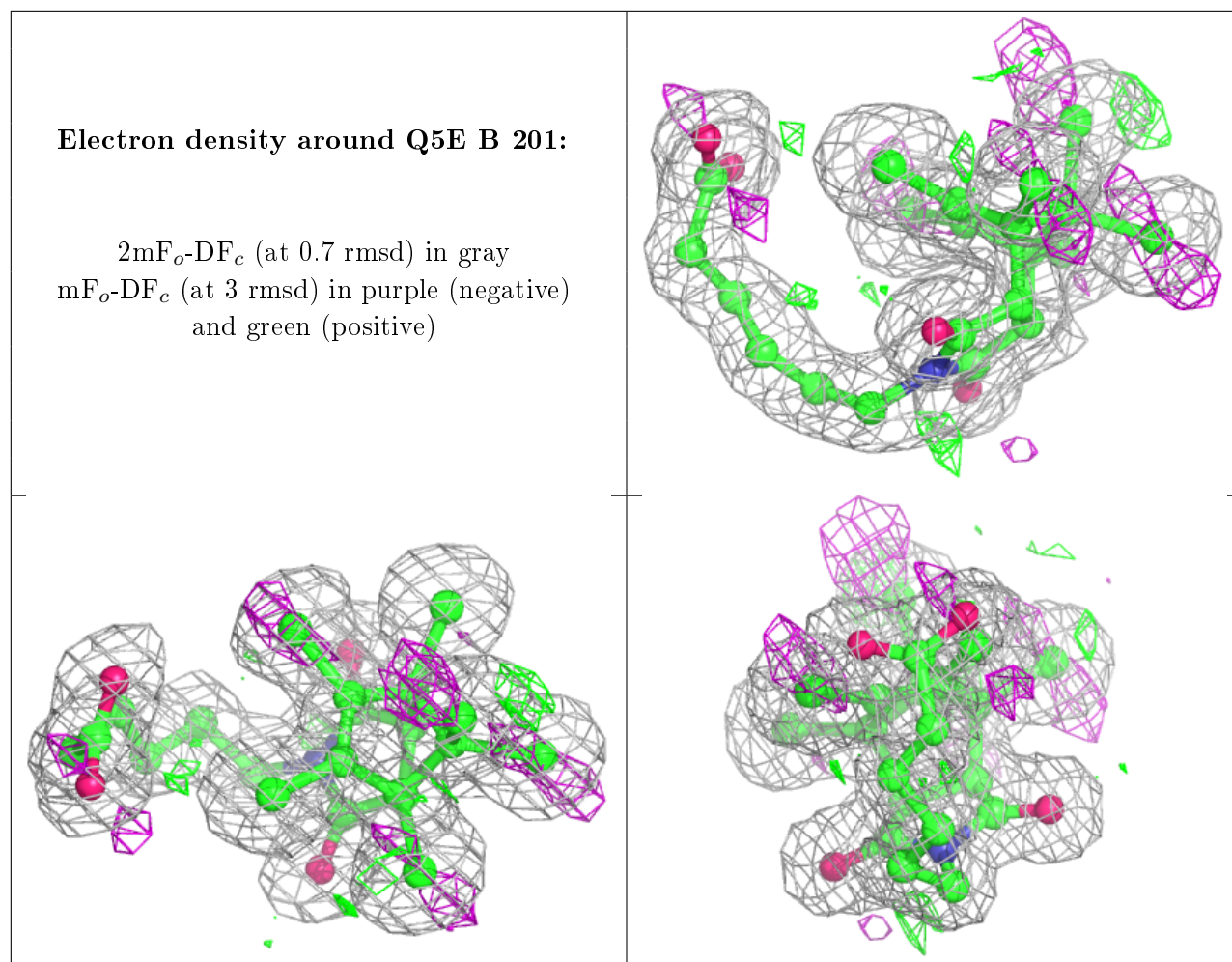
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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



**Electron density around Q5E C 201:**

$2mF_o-DF_c$  (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.