



# wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 29, 2020 – 09:24 PM BST

PDB ID : 6BYY  
Title : MEF2 CHIMERA/DNA Complex  
Authors : Lei, X.; Chen, L.  
Deposited on : 2017-12-21  
Resolution : 2.30 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 : 2.13  
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) : 2.13

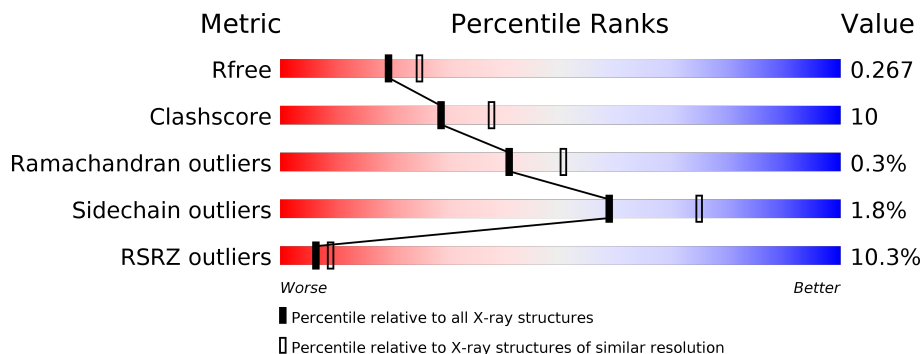
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.30 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.



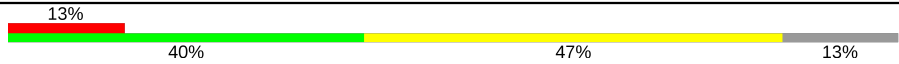

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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 on 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	95	
1	B	95	
1	C	95	
1	D	95	
2	E	14	
2	K	14	

*Continued on next page...*

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Mol	Chain	Length	Quality of chain
3	F	15	
3	L	15	

## 2 Entry composition [i](#)

There are 6 unique types of molecules in this entry. The entry contains 4375 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 MEF2 CHIMERA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	91	Total 758	C 477	N 134	O 142	S 5	0	0	0
1	B	91	Total 758	C 477	N 134	O 142	S 5	0	0	0
1	C	91	Total 758	C 477	N 134	O 142	S 5	0	0	0
1	D	89	Total 738	C 466	N 129	O 138	S 5	0	0	0

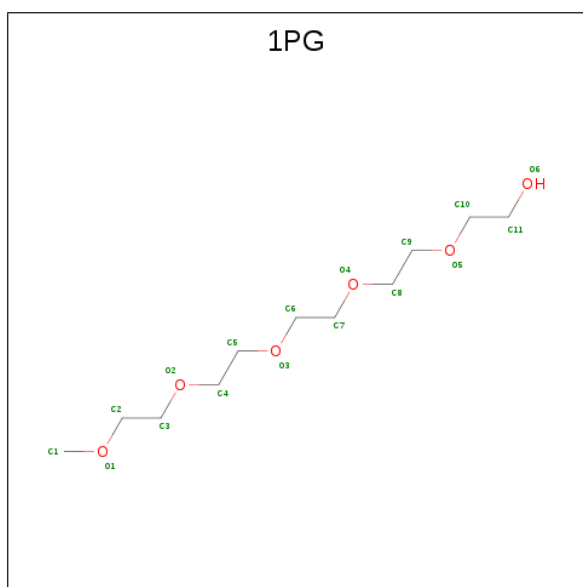
- Molecule 2 is a DNA chain called DNA (5'-D(P\*AP\*AP\*CP\*TP\*AP\*TP\*TP\*TP\*AP\*TP\*AP\*AP\*GP\*A)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	K	14	Total 288	C 139	N 53	O 82	P 14	0	0	0
2	E	14	Total 285	C 139	N 53	O 80	P 13	0	0	0

- Molecule 3 is a DNA chain called DNA (5'-D(P\*TP\*TP\*CP\*TP\*TP\*AP\*TP\*AP\*AP\*AP\*TP\*AP\*GP\*TP\*T)-3').

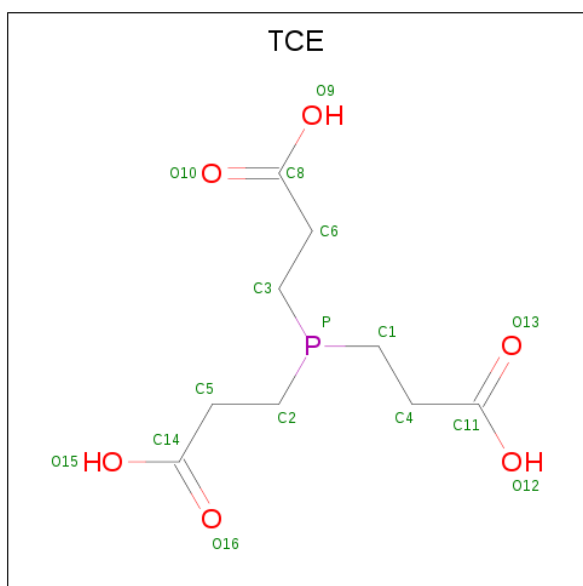
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	L	14	Total 286	C 139	N 47	O 86	P 14	0	0	0
3	F	13	Total 266	C 129	N 45	O 79	P 13	0	0	0

- Molecule 4 is 2-(2-{2-[2-(2-METHOXY-ETHOXY)-ETHOXY]-ETHOXY}-ETHOXY)-ETHANOL (three-letter code: 1PG) (formula: C<sub>11</sub>H<sub>24</sub>O<sub>6</sub>).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	1	Total C O 17 11 6	0	0
4	A	1	Total C O 7 4 3	0	0

- Molecule 5 is 3,3',3''-phosphanetriyltripropanoic acid (three-letter code: TCE) (formula:  $C_9H_{15}O_6P$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	F	1	Total C O P 16 9 6 1	0	0

- Molecule 6 is water.

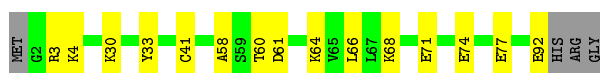
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	57	Total O 57 57	0	0
6	B	49	Total O 49 49	0	0
6	C	14	Total O 14 14	0	0
6	D	14	Total O 14 14	0	0
6	K	28	Total O 28 28	0	0
6	L	28	Total O 28 28	0	0
6	E	1	Total O 1 1	0	0
6	F	7	Total O 7 7	0	0

### 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: MEF2 CHIMERA

Chain A: 




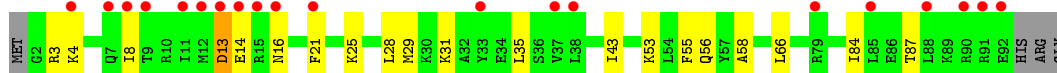
- Molecule 1: MEF2 CHIMERA

Chain B: 



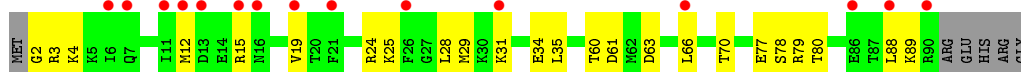
- Molecule 1: MEF2 CHIMERA

Chain C: 



- Molecule 1: MEF2 CHIMERA

Chain D: 



- Molecule 2: DNA (5'-D(P\*AP\*AP\*CP\*TP\*AP\*TP\*TP\*TP\*AP\*TP\*AP\*AP\*GP\*A)-3')

Chain K: 



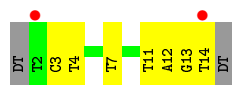
- Molecule 2: DNA (5'-D(P\*AP\*AP\*CP\*TP\*AP\*TP\*TP\*TP\*AP\*TP\*AP\*AP\*GP\*A)-3')



- Molecule 3: DNA (5'-D(P\*TP\*TP\*CP\*TP\*TP\*AP\*TP\*AP\*AP\*AP\*TP\*AP\*GP\*TP\*T)-3')



- Molecule 3: DNA (5'-D(P\*TP\*TP\*CP\*TP\*TP\*AP\*TP\*AP\*AP\*AP\*TP\*AP\*GP\*TP\*T)-3')





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	77.35Å 77.76Å 106.31Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	54.84 - 2.30 54.84 - 2.30	Depositor EDS
% Data completeness (in resolution range)	100.0 (54.84-2.30) 100.0 (54.84-2.30)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.97 (at 2.29Å)	Xtrriage
Refinement program	PHENIX dev_2926	Depositor
R, $R_{free}$	0.213 , 0.266 0.213 , 0.267	Depositor DCC
$R_{free}$ test set	1364 reflections (4.67%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	35.9	Xtrriage
Anisotropy	0.371	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 50.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	0.024 for k,h,-l	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	4375	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	51.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.39% 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: TCE, 1PG

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	0.45	0/767	0.57	0/1024
1	B	0.44	0/767	0.61	0/1024
1	C	0.38	0/767	0.55	0/1024
1	D	0.38	0/747	0.56	0/998
2	E	0.66	0/320	0.99	0/492
2	K	1.20	1/323 (0.3%)	1.11	1/496 (0.2%)
3	F	0.70	0/297	1.09	0/456
3	L	0.96	0/319	1.15	0/490
All	All	0.60	1/4307 (0.0%)	0.78	1/6004 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	K	11	DT	C3'-O3'	-6.00	1.36	1.44

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed( $^{\circ}$ )	Ideal( $^{\circ}$ )
2	K	7	DT	O5'-P-OP1	-5.01	101.19	105.70

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	758	0	782	12	0
1	B	758	0	782	16	1
1	C	758	0	782	21	0
1	D	738	0	763	26	0
2	E	285	0	161	4	0
2	K	288	0	160	8	0
3	F	266	0	150	5	0
3	L	286	0	162	2	1
4	A	24	0	33	6	0
5	F	16	0	12	0	0
6	A	57	0	0	2	0
6	B	49	0	0	3	0
6	C	14	0	0	0	1
6	D	14	0	0	2	1
6	E	1	0	0	0	0
6	F	7	0	0	1	1
6	K	28	0	0	3	0
6	L	28	0	0	2	0
All	All	4375	0	3787	75	3

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 10.

The worst 5 of 75 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)
2:K:14:DG:OP2	6:K:101:HOH:O	1.91	0.87
3:L:9:DA:N7	6:L:102:HOH:O	2.10	0.84
3:L:14:DT:O4	6:L:101:HOH:O	1.96	0.82
1:B:60:THR:OG1	6:B:101:HOH:O	1.99	0.79
1:B:72:TYR:CE2	1:B:74:GLU:HG3	2.27	0.69

All (3) 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)
6:D:112:HOH:O	6:D:112:HOH:O[2_555]	1.89	0.31
6:C:109:HOH:O	6:F:205:HOH:O[4_554]	2.03	0.17
1:B:79:ARG:NH2	3:L:3:DC:OP1[3_555]	2.11	0.09

## 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	89/95 (94%)	85 (96%)	4 (4%)	0	100	100
1	B	89/95 (94%)	86 (97%)	3 (3%)	0	100	100
1	C	89/95 (94%)	86 (97%)	3 (3%)	0	100	100
1	D	87/95 (92%)	83 (95%)	3 (3%)	1 (1%)	14	15
All	All	354/380 (93%)	340 (96%)	13 (4%)	1 (0%)	41	50

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	3	ARG

### 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	86/89 (97%)	85 (99%)	1 (1%)	71	84
1	B	86/89 (97%)	83 (96%)	3 (4%)	36	50
1	C	86/89 (97%)	85 (99%)	1 (1%)	71	84
1	D	84/89 (94%)	83 (99%)	1 (1%)	71	84
All	All	342/356 (96%)	336 (98%)	6 (2%)	59	75

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

Mol	Chain	Res	Type
1	B	57	TYR
1	D	12	MET
1	B	64	LYS
1	B	33	TYR
1	C	13	ASP

Some 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
4	1PG	A	102	-	6,6,16	0.52	0	5,5,15	0.54	0
5	TCE	F	101	-	6,15,15	1.16	1 (16%)	9,18,18	2.75	6 (66%)
4	1PG	A	101	-	16,16,16	0.55	0	15,15,15	0.33	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
4	1PG	A	102	-	-	1/4/4/14	-
5	TCE	F	101	-	-	6/9/15/15	-
4	1PG	A	101	-	-	6/14/14/14	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	F	101	TCE	P-C3	2.06	1.87	1.84

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	F	101	TCE	P-C1-C4	-3.79	109.22	113.67
5	F	101	TCE	P-C2-C5	-3.46	109.61	113.67
5	F	101	TCE	P-C3-C6	-3.31	109.78	113.67
5	F	101	TCE	C1-P-C3	3.22	111.22	100.95
5	F	101	TCE	C3-P-C2	3.02	110.58	100.95

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	F	101	TCE	C5-C2-P-C3
5	F	101	TCE	C5-C2-P-C1
5	F	101	TCE	C6-C3-P-C2
5	F	101	TCE	C6-C3-P-C1
4	A	102	1PG	O4-C8-C9-O5

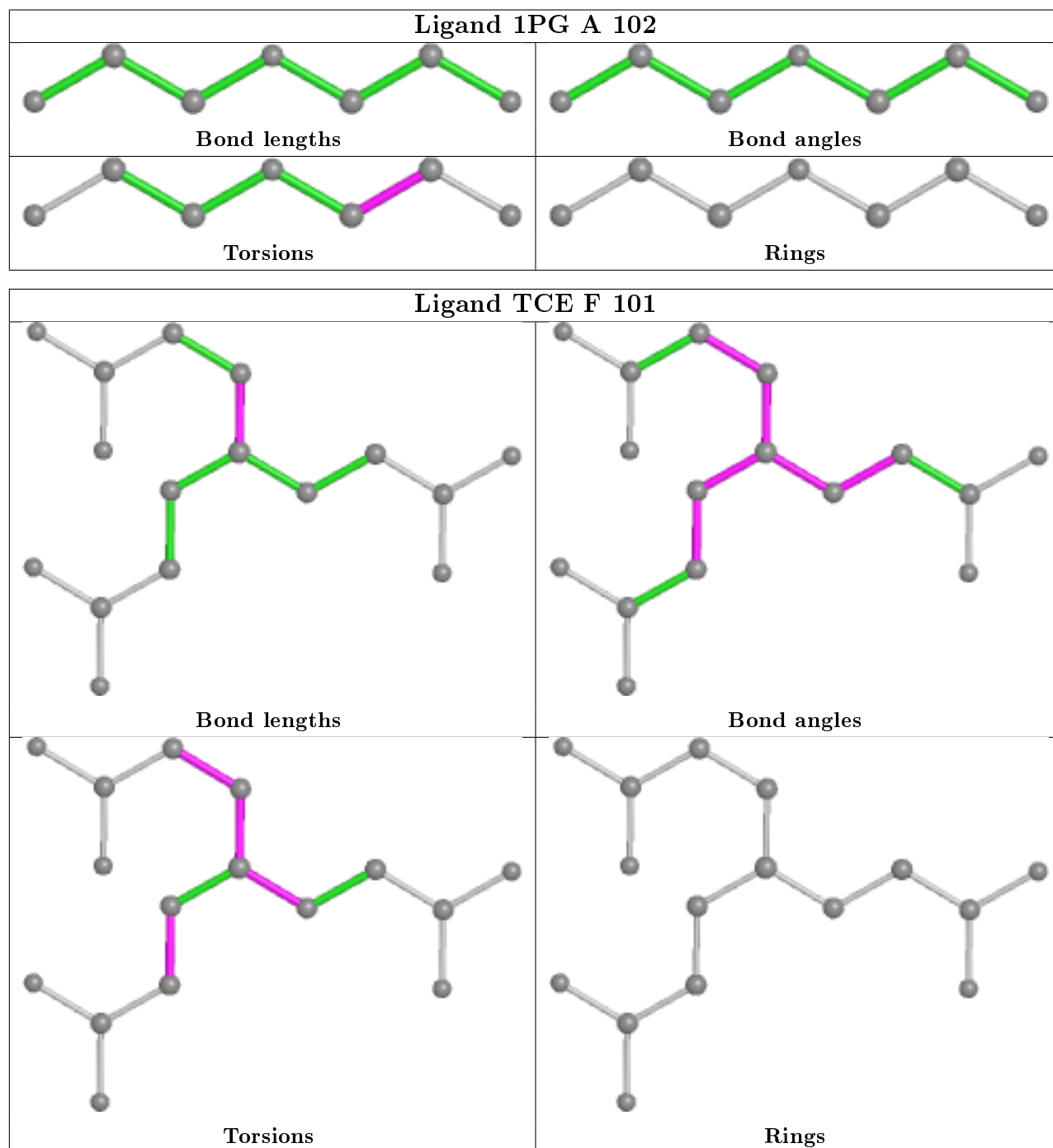
There are no ring outliers.

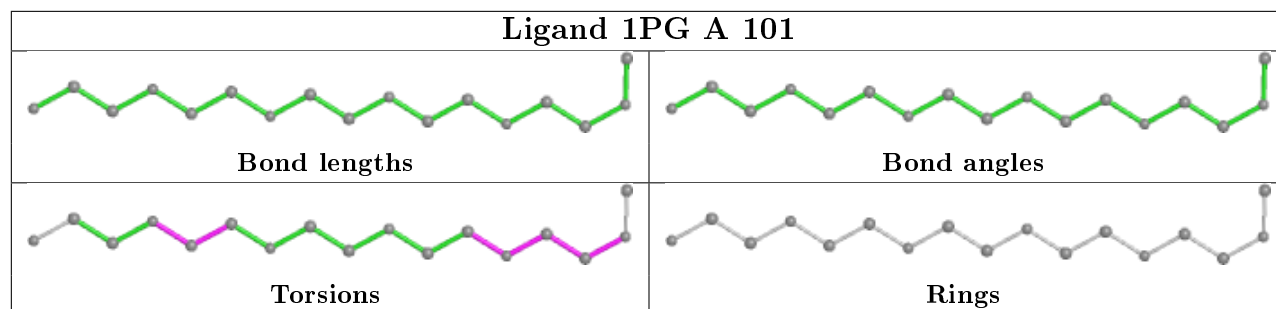
2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	102	1PG	4	0
4	A	101	1PG	2	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, 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	91/95 (95%)	0.16	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	19, 29, 43, 73	0
1	B	91/95 (95%)	0.09	1 (1%) <span style="border: 1px solid blue; padding: 2px;">80</span> <span style="border: 1px solid blue; padding: 2px;">85</span>	19, 30, 51, 65	0
1	C	91/95 (95%)	1.23	20 (21%) <span style="border: 1px solid red; padding: 2px;">0</span> <span style="border: 1px solid red; padding: 2px;">1</span>	30, 57, 91, 93	0
1	D	89/95 (93%)	1.07	15 (16%) <span style="border: 1px solid red; padding: 2px;">1</span> <span style="border: 1px solid red; padding: 2px;">2</span>	28, 55, 94, 98	0
2	E	14/14 (100%)	2.01	4 (28%) <span style="border: 1px solid red; padding: 2px;">0</span> <span style="border: 1px solid red; padding: 2px;">0</span>	73, 92, 121, 126	0
2	K	14/14 (100%)	0.04	1 (7%) <span style="border: 1px solid red; padding: 2px;">16</span> <span style="border: 1px solid red; padding: 2px;">21</span>	26, 35, 69, 84	0
3	F	13/15 (86%)	1.32	2 (15%) <span style="border: 1px solid red; padding: 2px;">2</span> <span style="border: 1px solid red; padding: 2px;">3</span>	80, 89, 104, 111	0
3	L	14/15 (93%)	-0.10	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	27, 35, 69, 76	0
All	All	417/438 (95%)	0.66	43 (10%) <span style="border: 1px solid red; padding: 2px;">6</span> <span style="border: 1px solid red; padding: 2px;">9</span>	19, 40, 92, 126	0

The worst 5 of 43 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	91	ARG	6.4
2	E	4	DC	5.8
1	C	12	MET	5.6
1	D	7	GLN	5.5
1	C	15	ARG	5.4

### 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](#)

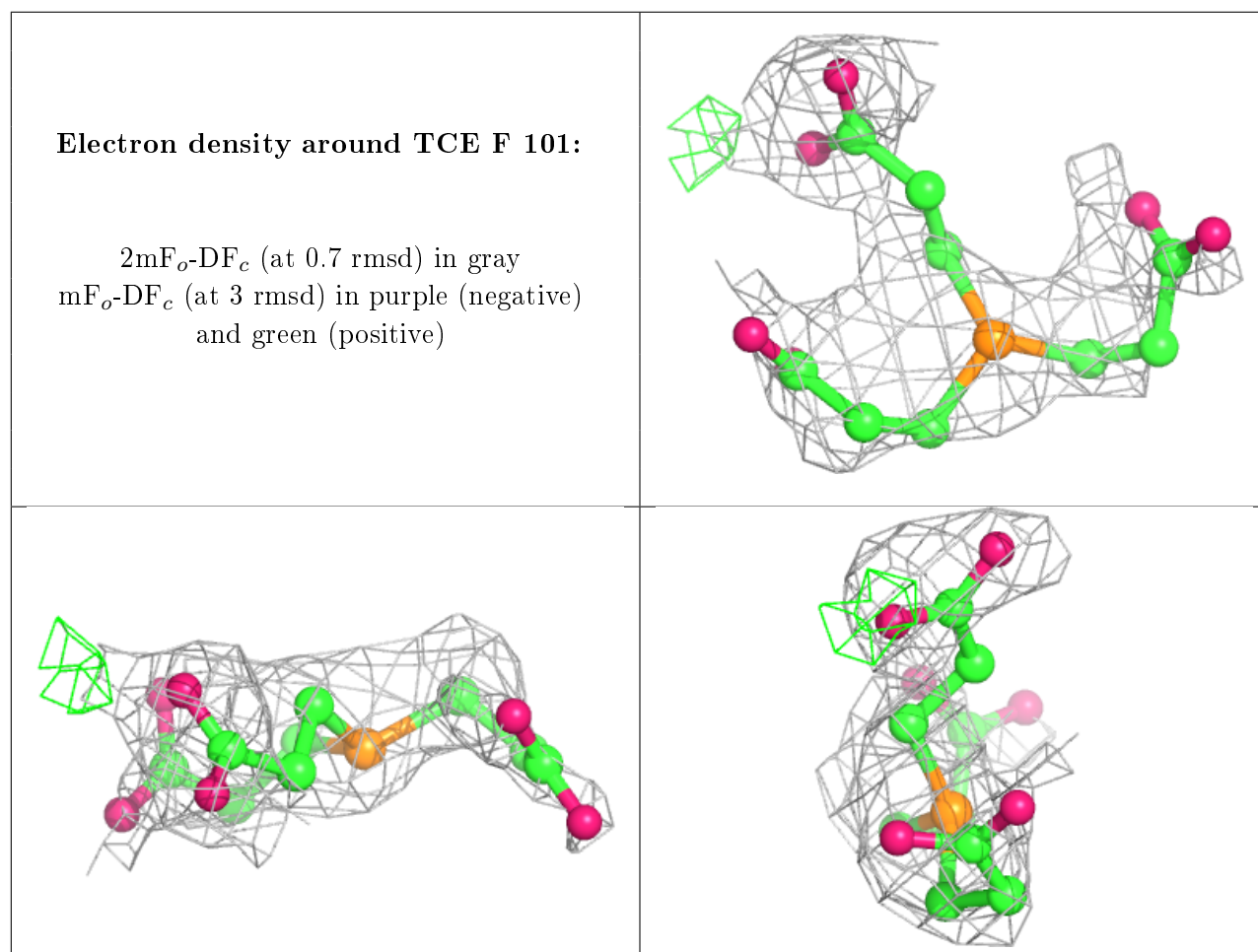
There are no monosaccharides in this entry.

## 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.

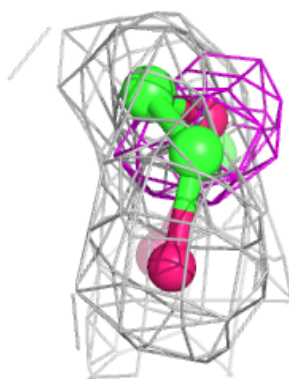
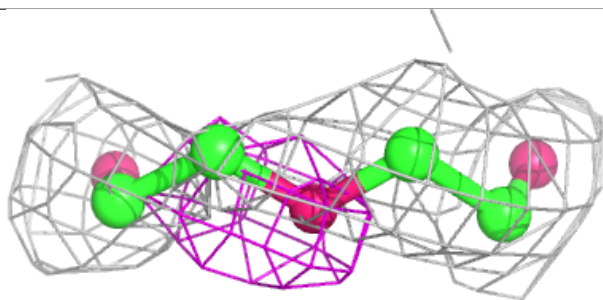
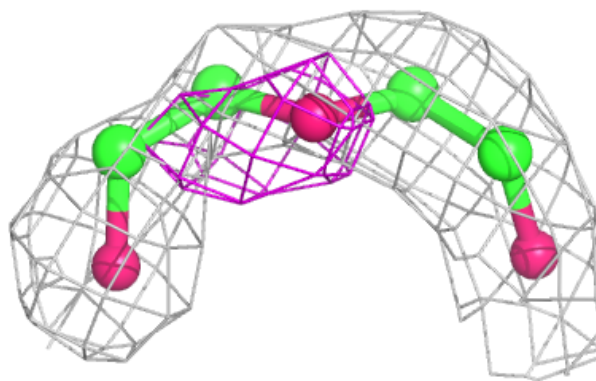
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
5	TCE	F	101	16/16	0.65	0.25	83,93,101,104	0
4	1PG	A	102	7/17	0.74	0.27	32,38,41,45	0
4	1PG	A	101	17/17	0.89	0.16	33,40,45,59	0

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.

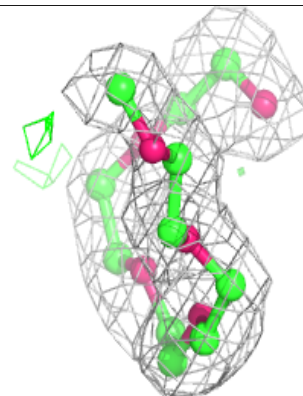
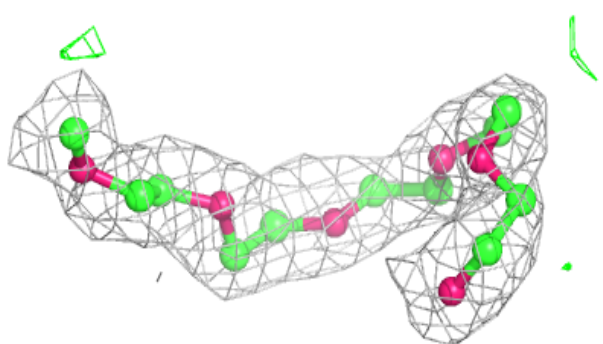
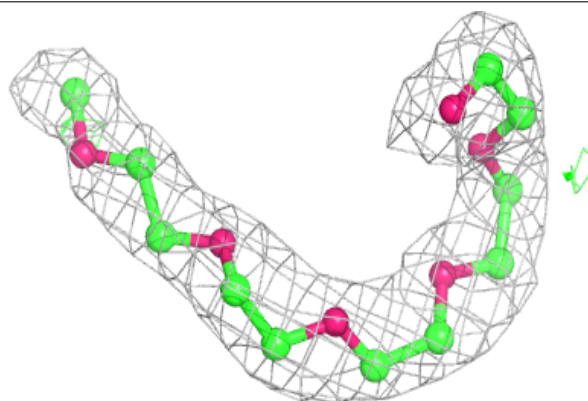


**Electron density around 1PG A 102:**

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

**Electron density around 1PG A 101:**

$2mF_o-DF_c$  (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.