

wwPDB EM Validation Summary Report (i)

May 13, 2024 – 10:06 pm BST

PDB ID	:	6TW1
EMDB ID	:	EMD-10603
Title	:	Bat Influenza A polymerase termination complex with pyrophosphate using
		44-mer vRNA template with mutated $oligo(U)$ sequence
Authors	:	Wandzik, J.M.; Kouba, T.; Cusack, S.
Deposited on	:	2020-01-11
Resolution	:	2.70 Å(reported)

This is a wwPDB EM 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/EMValidationReportHelp with specific help available everywhere you see the (i) 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 (1)) were used in the production of this report:

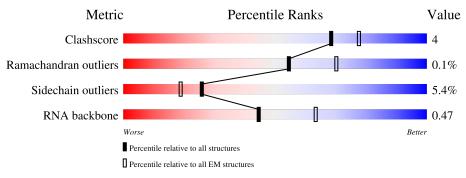
EMDB validation analysis	:	0.0.1.dev92
Mogul	:	1.8.4, CSD as 541 be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $ELECTRON\ MICROSCOPY$

The reported resolution of this entry is 2.70 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f EM\ structures}\ (\#{f Entries})$
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826
RNA backbone	4643	859

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 <=5%

Mol	Chain	Length	Quality of chain							
1	А	738	83%		11% · 5%					
2	В	776	83%		12% • 5%					
3	С	809	75%		15% • 9%					
4	V	44	50%	25%	25%					
5	М	10	80%		20%					



2 Entry composition (i)

There are 9 unique types of molecules in this entry. The entry contains 18627 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Polymerase acidic protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	А	703	Total 5733	C 3646	N 967	O 1083	S 37	0	0

There are 25 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
А	-13	GLY	-	expression tag	UNP H6QM92
А	-12	SER	-	expression tag	UNP H6QM92
А	-11	HIS	-	expression tag	UNP H6QM92
А	-10	HIS	-	expression tag	UNP H6QM92
А	-9	HIS	-	expression tag	UNP H6QM92
А	-8	HIS	-	expression tag	UNP H6QM92
А	-7	HIS	-	expression tag	UNP H6QM92
А	-6	HIS	-	expression tag	UNP H6QM92
А	-5	HIS	-	expression tag	UNP H6QM92
A	-4	HIS	-	expression tag	UNP H6QM92
А	-3	GLY	-	expression tag	UNP H6QM92
А	-2	SER	-	expression tag	UNP H6QM92
А	-1	GLY	-	expression tag	UNP H6QM92
А	0	SER	-	expression tag	UNP H6QM92
А	714	GLY	-	expression tag	UNP H6QM92
A	715	SER	-	expression tag	UNP H6QM92
А	716	GLY	-	expression tag	UNP H6QM92
А	717	SER	-	expression tag	UNP H6QM92
А	718	GLY	-	expression tag	UNP H6QM92
А	719	GLU	-	expression tag	UNP H6QM92
А	720	ASN	-	expression tag	UNP H6QM92
А	721	LEU	-	expression tag	UNP H6QM92
А	722	TYR	-	expression tag	UNP H6QM92
А	723	PHE	-	expression tag	UNP H6QM92
А	724	GLN	-	expression tag	UNP H6QM92

• Molecule 2 is a protein called RNA-directed RNA polymerase catalytic subunit.



Mol	Chain	Residues	Atoms					AltConf	Trace
2	В	740	Total	С	N	0	S	0	0
_	D	110	5925	3725	1056	1105	39	Ŭ	Ŭ

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
В	-8	GLY	-	expression tag	UNP H6QM91
В	-7	SER	-	expression tag	UNP H6QM91
В	-6	GLY	-	expression tag	UNP H6QM91
В	-5	SER	-	expression tag	UNP H6QM91
В	-4	GLY	-	expression tag	UNP H6QM91
В	-3	SER	-	expression tag	UNP H6QM91
В	-2	GLY	-	expression tag	UNP H6QM91
В	-1	SER	-	expression tag	UNP H6QM91
В	0	GLY	-	expression tag	UNP H6QM91
В	757	GLY	-	expression tag	UNP H6QM91
В	758	SER	-	expression tag	UNP H6QM91
В	759	GLY	-	expression tag	UNP H6QM91
В	760	SER	-	expression tag	UNP H6QM91
В	761	GLY	-	expression tag	UNP H6QM91
В	762	GLU	-	expression tag	UNP H6QM91
В	763	ASN	-	expression tag	UNP H6QM91
В	764	LEU	-	expression tag	UNP H6QM91
В	765	TYR	-	expression tag	UNP H6QM91
В	766	PHE	-	expression tag	UNP H6QM91
В	767	GLN	-	expression tag	UNP H6QM91

• Molecule 3 is a protein called Polymerase basic protein 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	C	740	Total	С	Ν	Ο	\mathbf{S}	0	0
J	C	740	5879	3708	1040	1099	32	0	0

There are 49 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
С	-8	GLY	-	expression tag	UNP H6QM90
С	-7	SER	-	expression tag	UNP H6QM90
С	-6	GLY	-	expression tag	UNP H6QM90
С	-5	SER	-	expression tag	UNP H6QM90
С	-4	GLY	-	expression tag	UNP H6QM90
С	-3	SER	-	expression tag	UNP H6QM90
С	-2	GLY	-	expression tag	UNP H6QM90

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	÷ -	vious page			-
Chain	Residue	Modelled	Actual	Comment	Reference
С	-1	SER	-	expression tag	UNP H6QM90
С	0	GLY	-	expression tag	UNP H6QM90
С	761	GLY	-	expression tag	UNP H6QM90
С	762	TRP	-	expression tag	UNP H6QM90
С	763	SER	-	expression tag	UNP H6QM90
C	764	HIS	-	expression tag	UNP H6QM90
C	765	PRO	-	expression tag	UNP H6QM90
С	766	GLN	-	expression tag	UNP H6QM90
С	767	PHE	-	expression tag	UNP H6QM90
С	768	GLU	-	expression tag	UNP H6QM90
С	769	LYS	-	expression tag	UNP H6QM90
С	770	GLY	-	expression tag	UNP H6QM90
С	771	GLY	-	expression tag	UNP H6QM90
С	772	GLY	-	expression tag	UNP H6QM90
С	773	SER	-	expression tag	UNP H6QM90
С	774	GLY	-	expression tag	UNP H6QM90
С	775	GLY	-	expression tag	UNP H6QM90
С	776	GLY	-	expression tag	UNP H6QM90
С	777	SER	-	expression tag	UNP H6QM90
С	778	GLY	-	expression tag	UNP H6QM90
С	779	GLY	-	expression tag	UNP H6QM90
С	780	SER	-	expression tag	UNP H6QM90
С	781	ALA	-	expression tag	UNP H6QM90
С	782	TRP	-	expression tag	UNP H6QM90
С	783	SER	-	expression tag	UNP H6QM90
С	784	HIS	-	expression tag	UNP H6QM90
С	785	PRO	-	expression tag	UNP H6QM90
С	786	GLN	-	expression tag	UNP H6QM90
С	787	PHE	-	expression tag	UNP H6QM90
С	788	GLU	-	expression tag	UNP H6QM90
С	789	LYS	-	expression tag	UNP H6QM90
С	790	GLY	-	expression tag	UNP H6QM90
С	791	ARG	-	expression tag	UNP H6QM90
С	792	SER	-	expression tag	UNP H6QM90
С	793	GLY	-	expression tag	UNP H6QM90
С	794	GLY	-	expression tag	UNP H6QM90
С	795	GLU	-	expression tag	UNP H6QM90
С	796	ASN	-	expression tag	UNP H6QM90
С	797	LEU	-	expression tag	UNP H6QM90
С	798	TYR	-	expression tag	UNP H6QM90
С	799	PHE	-	expression tag	UNP H6QM90
С	800	GLN	-	expression tag	UNP H6QM90



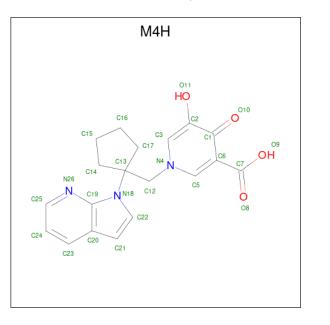
• Molecule 4 is a RNA chain called vRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	V	33	Total 703	C 314	N 124	0 232	Р 33	0	0

• Molecule 5 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	М	10	Total 214	C 96	N 41	O 67	Р 10	0	0

• Molecule 6 is 5-oxidanyl-4-oxidanylidene-1-[(1-pyrrolo[2,3-b]pyridin-1-ylcyclopentyl)methyl] pyridine-3-carboxylic acid (three-letter code: M4H) (formula: C₁₉H₁₉N₃O₄).



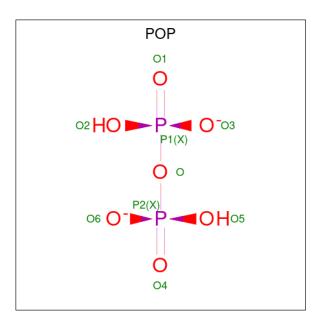
Mol	Chain	Residues	A	Atoms				
6	А	1	Total	С	Ν	Ο	0	
		1	26	19	3	4	0	

• Molecule 7 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	AltConf
7	А	2	Total Mg 2 2	0
7	В	2	Total Mg 2 2	0

• Molecule 8 is PYROPHOSPHATE 2- (three-letter code: POP) (formula: $H_2O_7P_2$).





Γ	Mol	Chain	Residues	Atoms	AltConf
	8	В	1	Total O P 9 7 2	0

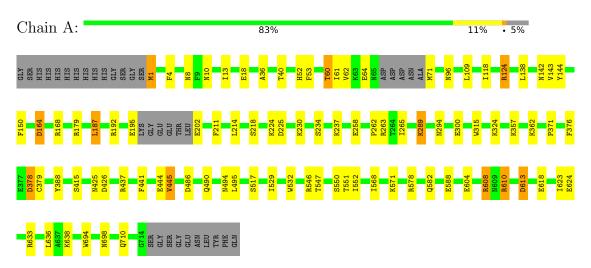
• Molecule 9 is water.

Mol	Chain	Residues	Atoms	AltConf
9	А	45	$\begin{array}{cc} \text{Total} & \text{O} \\ 45 & 45 \end{array}$	0
9	В	59	Total O 59 59	0
9	С	6	Total O 6 6	0
9	V	20	TotalO2020	0
9	М	4	Total O 4 4	0



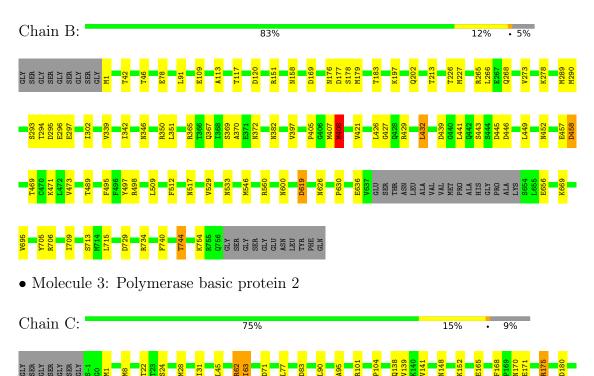
3 Residue-property plots (i)

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. 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. 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: Polymerase acidic protein

• Molecule 2: RNA-directed RNA polymerase catalytic subunit





L183 E192	V212 R213 R216 F216	S225	T238	E241	D253	Q257	V267	V272	L280	R299	S300	P302	1303	I317	K318 1319	N320	K331	R332 V333	K334	E341	K342	T346	1356	V360	E361	E362 F363	N364 V365	1 374	G377	A378
Q379 A384	L395 1399 T400	0406	D417	M431	T444	E452 E453	I454	M476 G477	V478	R4/ 9	Y488	5409 F490	R403	1494	R495 V496	REO3	V504	R505	L511	L512 1513	V518	S519	4521 A521	0522 6523	0524 0524	E525 K526	P542	E543	L546	1553
1554 1560 1560 8561	T562 Q563 T566	T569	N573 R574 T575	K586	F595	q 602	M603	Q614	L628	T637	L638 NG20	1640	R646	L647	L648 I649	DEEA		N657	M661	I665	1666	P675	S688	A689	R692	6693	N701	R7 18	N7 23	G7 27
T731 R737	K738 ARG ASP SER	LEU	THR ASP SFR	GLN THR	ALA LEU	LYS ARG	ILE ARG	LEU GLJI	0TD	SYL	GLY	SER	DRD	GLN	GLU	LYS	GLY	GLY SER	ALD ST.	GLY	SER GLY	GLY	ALA	TRP SER	HIS	GLN	PHE GLU	TVS SV1	ARG	GLY
GLY GLU ASN I FII	TYR PHE GLN																													
• Mc	lecule	4: v	'RN	IA																										
Chai	n V: 🗖					50%)									2	25%)						259	%					
A1 A4 GF	U6 A7 A8	G14	C15	טמ	ల ల	с nзө	C40 U41	G42 C43	044 11	- U	Þ	טפ:	D																	
• Mc	olecule	5: r	nRI	NA																										
Chai	n M:									80	%														20%	6		-		
A28 C35 A36	U37																													



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	101612	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{\AA}^2)$	46	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor



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: MG, M4H, POP

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	Bo	nd lengths	Bo	ond angles
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5
1	А	0.42	0/5855	0.49	0/7883
2	В	0.43	0/6039	0.53	0/8145
3	С	0.33	0/5981	0.51	0/8075
4	V	0.94	1/784~(0.1%)	0.98	1/1215~(0.1%)
5	М	0.84	0/239	0.97	0/370
All	All	0.44	1/18898~(0.0%)	0.55	1/25688~(0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	V	1	А	OP3-P	-11.27	1.47	1.61

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Ζ	$Observed(^{o})$	$Ideal(^{o})$
4	V	7	А	O4'-C1'-N9	6.67	113.54	108.20

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	А	5733	0	5652	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	В	5925	0	5938	48	0
3	С	5879	0	5998	62	0
4	V	703	0	356	1	0
5	М	214	0	110	1	0
6	А	26	0	0	0	0
7	А	2	0	0	0	0
7	В	2	0	0	0	0
8	В	9	0	0	0	0
9	А	45	0	0	1	0
9	В	59	0	0	0	0
9	С	6	0	0	0	0
9	М	4	0	0	0	0
9	V	20	0	0	0	0
All	All	18627	0	18054	140	0

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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 4.

The worst 5 of 140 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)
3:C:505:ARG:HH21	3:C:511:LEU:HB2	1.61	0.66
3:C:454:ILE:HD13	3:C:479:ARG:HH21	1.63	0.64
1:A:694:TRP:O	1:A:698:ASN:ND2	2.36	0.59
1:A:571:LYS:HB2	3:C:45:LEU:HD13	1.85	0.59
2:B:630:PRO:HB2	3:C:63:ILE:HG13	1.84	0.58

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 PDB entries followed by that with respect to all EM entries.

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	Percenti	les
1	А	697/738~(94%)	674 (97%)	23~(3%)	0	100 10	00
2	В	736/776~(95%)	719~(98%)	16 (2%)	1 (0%)	51 78	3
3	С	738/809~(91%)	698~(95%)	39~(5%)	1 (0%)	51 78	3
All	All	2171/2323 (94%)	2091 (96%)	78 (4%)	2(0%)	54 78	8

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	В	408	MET
3	С	675	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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	Rotameric Outliers		Percentiles		
1	А	629/657~(96%)	599~(95%)	30~(5%)		25	53	
2	В	652/676~(96%)	621~(95%)	31 (5%)		25	53	
3	С	655/706~(93%)	611 (93%)	44 (7%)		16	37	
All	All	1936/2039~(95%)	1831 (95%)	105 (5%)		26	47	

5 of 105 residues with a non-rotameric side chain are listed below:

Mol	Chain	Res	Type
2	В	619	ASP
3	С	217	PHE
3	С	637	THR
2	В	709	ILE
3	С	83	ASP

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 17 such side chains are listed below:

Mol	Chain	Res	Type						
3	3 C		GLN						
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Mol	Chain	Res	Type
3	С	659	ASN
2	В	454	HIS
2	В	567	ASN
2	В	745	ASN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
4	V	31/44~(70%)	8~(25%)	0
5	М	9/10~(90%)	0	0
All	All	40/54~(74%)	8 (20%)	0

5 of 8 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
4	V	4	А
4	V	6	U
4	V	8	А
4	V	11	А
4	V	14	G

There are no RNA pucker outliers to report.

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)

Of 6 ligands modelled in this entry, 4 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



Mol	Type	Chain	Res Link		Bo	ond leng	\mathbf{ths}	B	ond ang	gles
10101	туре	Chain	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
8	POP	В	803	7	6,8,8	1.02	0	13,13,13	1.06	1 (7%)
6	M4H	А	801	7	27,29,29	1.27	1 (3%)	33,43,43	2.05	11 (33%)

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).

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	POP	В	803	7	-	4/6/6/6	-
6	M4H	А	801	7	-	5/8/24/24	0/4/4/4

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	А	801	M4H	C22-N18	-4.52	1.35	1.39

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms		$Observed(^{o})$	$Ideal(^{o})$
6	А	801	M4H	C17-C13-C12	-5.50	107.21	113.80
6	А	801	M4H	C22-N18-C13	-4.53	120.74	124.18
6	А	801	M4H	C5-C6-C1	-4.04	117.26	120.26
6	А	801	M4H	C25-N26-C19	3.00	120.50	116.77
6	А	801	M4H	C14-C13-C17	2.99	107.61	102.20

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

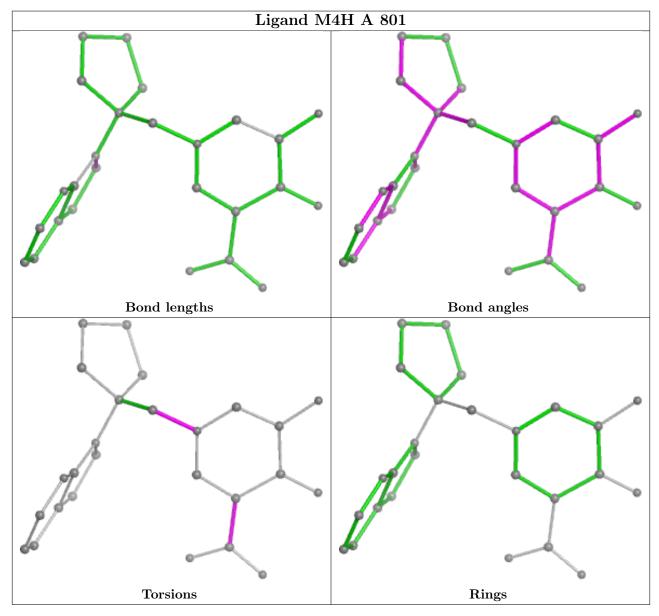
Mol	Chain	Res	Type	Atoms
8	В	803	POP	P2-O-P1-O3
6	А	801	M4H	C1-C6-C7-O8
6	А	801	M4H	C1-C6-C7-O9
6	А	801	M4H	C5-C6-C7-O8
6	А	801	M4H	C5-C6-C7-O9

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 then 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 similar 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 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-10603. These allow visual inspection of the internal detail of the map and identification of artifacts.

Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections (i)

This section was not generated.

6.2 Central slices (i)

This section was not generated.

6.3 Largest variance slices (i)

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color) (i)

This section was not generated.

6.5 Orthogonal surface views (i)

This section was not generated.

6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.



7 Map analysis (i)

This section contains the results of statistical analysis of the map.

7.1 Map-value distribution (i)

This section was not generated.

7.2 Volume estimate versus contour level (i)

This section was not generated.

7.3 Rotationally averaged power spectrum (i)

This section was not generated. The rotationally averaged power spectrum had issues being displayed.



8 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.



9 Map-model fit (i)

This section was not generated.

