

Full wwPDB X-ray Structure Validation Report (i)

Oct 5, 2023 – 02:46 AM EDT

PDB ID : 6VVW

Title : W0 fused 4-OT wild type symmetric trimer Authors : Medellin, B.P.; Whitman, C.P.; Zhang, Y.J.

Deposited on : 2020-02-18

Resolution : 2.10 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 (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:

MolProbity : FAILED Xtriage (Phenix) : 1.13 EDS : FAILED

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

Validation Pipeline (wwPDB-VP) : 2.35.1

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 2.10 Å.

There are no overall percentile quality scores available for this entry.

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



2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 7301 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 Tautomerase.

Mol	Chain	Residues		At	oms			ZeroOcc	AltConf	Trace
1	A	121	Total	С	N	О	S	0	0	0
1	A	121	908	570	158	177	3			
1	В	118	Total	С	N	О	S	0	0	0
1	Б	110	884	554	154	173	3			
1	С	121	Total	С	N	О	S	0	0	0
1		121	908	570	158	177	3			
1	D	122	Total	С	N	О	S	0	0	0
1	D	122	919	576	162	178	3	U		
1	Е	121	Total	С	N	О	S	0	0	0
1	l Li	121	908	570	158	177	3			
1	F	118	Total	С	N	О	S	0	0	0
1	Г	110	884	554	154	173	3			
1	G	121	Total	С	N	О	S	0	0	0
1	G	121	908	570	158	177	3			
1	Н	122	Total	С	N	О	S	0	0	0
_ 1	11	11 122	919	576	162	178	3			

• Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total O 1 1	0	0
2	В	8	Total O 8 8	0	0
2	С	10	Total O 10 10	0	0
2	D	13	Total O 13 13	0	0
2	E	4	Total O 4 4	0	0
2	F	9	Total O 9 9	0	0

Continued on next page...



Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	G	9	Total O 9 9	0	0
2	Н	9	Total O 9 9	0	0

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



3 Data and refinement statistics (i)

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source	
Space group	P 3	Depositor	
Cell constants	83.87Å 83.87Å 149.60Å	Depositor	
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor	
Resolution (Å)	41.93 - 2.10	Depositor	
% Data completeness	99.5 (41.93-2.10)	Depositor	
(in resolution range)	, ,	-	
R_{merge}	(Not available)	Depositor	
R_{sym}	(Not available)	Depositor	
$< I/\sigma(I) > 1$	140.66 (at 2.11Å)	Xtriage	
Refinement program	PHENIX v1.16	Depositor	
R, R_{free}	0.275 , 0.334	Depositor	
Wilson B-factor (Å ²)	28.2	Xtriage	
Anisotropy	0.357	Xtriage	
L-test for twinning ²	$< L > = 0.42, < L^2> = 0.24$	Xtriage	
	0.387 for -h,-k,l		
Estimated twinning fraction	0.427 for h,-h-k,-l	Xtriage	
	0.387 for -k,-h,-l		
Reported twinning fraction	0.450 for -h,-k,l	Depositor	
Outliers	0 of 68266 reflections	Xtriage	
Total number of atoms	7301	wwPDB-VP	
Average B, all atoms (Å ²)	21.0	wwPDB-VP	

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 8.79% of the height of the origin peak. No significant pseudotranslation is detected.

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



¹Intensities estimated from amplitudes.

4 Model quality (i)

4.1 Standard geometry (i)

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

4.2 Too-close contacts (i)

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

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 monosaccharides in this entry.

4.6 Ligand geometry (i)

There are no ligands in this entry.

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)

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

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

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

5.3 Carbohydrates (i)

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

5.4 Ligands (i)

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

5.5 Other polymers (i)

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

