W O R L D W I D E

wwPDB

P R O T E I N   D A T A   B A N K

wwPDB X-ray Structure Validation Summary 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)

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 2.10 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 ⓘ

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	Atoms					ZeroOcc	AltConf	Trace
1	A	121	Total	C	N	O	S	0	0	0
			908	570	158	177	3			
1	B	118	Total	C	N	O	S	0	0	0
			884	554	154	173	3			
1	C	121	Total	C	N	O	S	0	0	0
			908	570	158	177	3			
1	D	122	Total	C	N	O	S	0	0	0
			919	576	162	178	3			
1	E	121	Total	C	N	O	S	0	0	0
			908	570	158	177	3			
1	F	118	Total	C	N	O	S	0	0	0
			884	554	154	173	3			
1	G	121	Total	C	N	O	S	0	0	0
			908	570	158	177	3			
1	H	122	Total	C	N	O	S	0	0	0
			919	576	162	178	3			

- Molecule 2 is water.

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

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	G	9	Total 9	O 9	0	0
2	H	9	Total 9	O 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 a, b, c, α, β, γ	83.87Å 83.87Å 149.60Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	41.93 – 2.10	Depositor
% Data completeness (in resolution range)	99.5 (41.93-2.10)	Depositor
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
Estimated twinning fraction	0.387 for -h,-k,l 0.427 for h,-h-k,-l 0.387 for -k,-h,-l	Xtriage
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.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical 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.

4 Model quality ⓘ

4.1 Standard geometry ⓘ

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

4.2 Too-close contacts ⓘ

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

4.3 Torsion angles ⓘ

4.3.1 Protein backbone ⓘ

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

4.3.2 Protein sidechains ⓘ

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

4.3.3 RNA ⓘ

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

4.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

4.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

4.6 Ligand geometry ⓘ

There are no ligands in this entry.

4.7 Other polymers ⓘ

There are no such residues in this entry.

4.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

5 Fit of model and data ⓘ

5.1 Protein, DNA and RNA chains ⓘ

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

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

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

5.3 Carbohydrates ⓘ

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

5.4 Ligands ⓘ

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

5.5 Other polymers ⓘ

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