

Full wwPDB X-ray Structure Validation Report (i)

Oct 2, 2023 – 03:02 AM EDT

PDB ID	:	6NF3
Title	:	Structure of the Monoclinic-3 (Monocln-3) Crystal Form of Human
		Apolipoprotein C1
Authors	:	McPherson, A.; Larson, S.B.
Deposited on	:	2018-12-18
Resolution	:	2.33 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:

:	FAILED
:	1.13
:	FAILED
:	20191225.v01 (using entries in the PDB archive December 25th 2019)
:	Engh & Huber (2001)
:	Parkinson et al. (1996)
:	2.35.1
	: : : :

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\hbox{-}RAY\,DIFFRACTION$

The reported resolution of this entry is 2.33 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.



6NF3

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 944 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 Apolipoprotein C-I.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1 Λ	46	Total	С	Ν	0	S	0	2	0
	40	407	262	71	73	1	0	ა	0	
1	1 D	51	Total	С	Ν	0	S	0	1	0
	51	429	272	76	80	1	0	T	U	

• Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	А	48	Total O 48 48	0	0
2	В	60	Total O 60 60	0	0

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



3 Data and refinement statistics (i)

Property	Value	Source		
Space group	P 1 21 1	Depositor		
Cell constants	38.17Å 49.97 Å 35.42 Å	Depositor		
a, b, c, α , β , γ	90.00° 105.10° 90.00°	Depositor		
Resolution (Å)	18.97 - 2.33	Depositor		
% Data completeness (in resolution range)	78.4 (18.97-2.33)	Depositor		
R _{merge}	0.13	Depositor		
R _{sym}	0.13	Depositor		
$< I/\sigma(I) > 1$	$3.12 (at 2.39 \text{\AA})$	Xtriage		
Refinement program	REFMAC 5.8.0158	Depositor		
R, R_{free}	0.199 , 0.318	Depositor		
Wilson B-factor $(Å^2)$	15.0	Xtriage		
Anisotropy	0.583	Xtriage		
L-test for twinning ²	$< L > = 0.31, < L^2 > = 0.14$	Xtriage		
Estimated twinning fraction	No twinning to report.	Xtriage		
Reported twinning fraction	0.689 for H, K, L	Depositor		
Reported twinning fraction	0.311 for L, -K, H	Depositor		
Outliers	0 of 4940 reflections	Xtriage		
Total number of atoms	944	wwPDB-VP		
Average B, all atoms $(Å^2)$	21.0	wwPDB-VP		

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

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.88% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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.

