

# wwPDB X-ray Structure Validation Summary Report (i)

#### Oct 5, 2023 – 03:22 AM EDT

PDB ID	:	6VBO
Title	:	Crystal structure of anti-HIV-1 antibody DH813 bound to $gp120 V2$ peptide
Authors	:	Janus, B.M.; Ofek, G.
Deposited on		
Resolution	:	1.68 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* 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 1.68 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 4 unique types of molecules in this entry. The entry contains 7198 atoms, of which 3283 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 DH813 light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
1	L	218	Total 3290	C 1044	Н 1610	N 289	0 341	S 6	0	0	0

• Molecule 2 is a protein called DH813 heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
2	Н	210	Total 3114	C 1001	Н 1540	N 257	O 309	S 7	0	0	0

• Molecule 3 is a protein called Envelope glycoprotein gp160.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	С	16	Total 263		Н 133	N 22	O 20	0	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	L	282	Total O   282 282	0	0
4	Н	234	Total O 234 234	0	0
4	С	15	Total O 15 15	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	55.57Å $63.92$ Å $70.58$ Å	Depositor	
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $92.96^{\circ}$ $90.00^{\circ}$	Depositor	
Resolution (Å)	27.75 - 1.68	Depositor	
% Data completeness	93.3 (27.75-1.68)	Depositor	
(in resolution range)		-	
$R_{merge}$	(Not available)	Depositor	
$R_{sym}$	(Not available)	Depositor	
$< I/\sigma(I) > 1$	$2.35 (at 1.69 \text{\AA})$	Xtriage	
Refinement program	PHENIX 1.14_3228	Depositor	
$R, R_{free}$	0.175 , $0.208$	Depositor	
Wilson B-factor $(Å^2)$	21.9	Xtriage	
Anisotropy	0.215	Xtriage	
L-test for $twinning^2$	$<  L  > = 0.48, < L^2 > = 0.30$	Xtriage	
Estimated twinning fraction	0.037 for h,-k,-l	Xtriage	
Total number of atoms	7198	wwPDB-VP	
Average B, all atoms $(Å^2)$	33.0	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 6.33% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;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.



<sup>&</sup>lt;sup>1</sup>Intensities 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.

