



Full wwPDB EM Validation Report ⓘ

May 27, 2024 – 06:28 PM EDT

PDB ID : 5KO0
EMDB ID : EMD-8273
Title : Human Islet Amyloid Polypeptide Segment 15-FLVHSSNNFGA-25 Determined by MicroED
Authors : Krotee, P.A.L.; Rodriguez, J.A.; Sawaya, M.R.; Cascio, D.; Shi, D.; Nannenga, B.L.; Hattne, J.; Reyes, F.E.; Gonen, T.; Eisenberg, D.S.
Deposited on : 2016-06-28
Resolution : 1.40 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ 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 ⓘ](#)) were used in the production of this report:

EMDB validation analysis : **FAILED**
MolProbity : **FAILED**
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

The following experimental techniques were used to determine the structure:

ELECTRON CRYSTALLOGRAPHY

The reported resolution of this entry is 1.40 Å.

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

ENTRY-COMPOSITION INFOmissingINFO

SEQUENCE-PLOTS INFOmissingINFO

2 Experimental information

| Property | Value | Source |
|--------------------------------------|---|-----------|
| EM reconstruction method | CRYSTALLOGRAPHY | Depositor |
| Imposed symmetry | 3D CRYSTAL, $a=11.68 \text{ \AA}$, $b=18.18 \text{ \AA}$, $c=19.93 \text{ \AA}$, $\alpha=62.8^\circ$, $\beta=88.9^\circ$, $\gamma=87.6^\circ$, space group=P1 | Depositor |
| Number of images used | Not provided | |
| Resolution determination method | DIFFRACTION PATTERN/LAYERLINES | Depositor |
| CTF correction method | NONE | Depositor |
| Microscope | FEI TECNAI 20 | Depositor |
| Voltage (kV) | 200 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 0.01 | Depositor |
| Minimum defocus (nm) | Not provided | |
| Maximum defocus (nm) | Not provided | |
| Magnification | Not provided | |
| Image detector | TVIPS TEMCAM-F416 (4k x 4k) | Depositor |

3 Model quality [i](#)

3.1 Standard geometry [i](#)

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

3.2 Too-close contacts [i](#)

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

3.3 Torsion angles [i](#)

3.3.1 Protein backbone [i](#)

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

3.3.2 Protein sidechains [i](#)

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

3.3.3 RNA [i](#)

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

3.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

3.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

3.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 could not be matched to an existing wwPDB Chemical Component Dictionary definition at this stage - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

3.7 Other polymers

There are no such residues in this entry.

3.8 Polymer linkage issues

There are no chain breaks in this entry.