WORLDWIDE wwPDB

PROTEIN DATA BANK

Full wwPDB EM Validation Report ⓘ

May 1, 2024 – 02:19 am BST

EMDB ID	:	EMD-18785
Title	:	Influence of lipid bilayer on structure of acetylcholine receptor
Authors	:	Unwin, N.
Deposited on	:	2023-10-30
Resolution	:	8.50 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/EMMapValidationReportHelp
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	:	0.0.1.dev92
Validation Pipeline (wwPDB-VP)	:	2.36.2

1 Experimental information ⓘ

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=64.753°, rise=11.46 Å, axial sym=D2	Depositor
Number of segments used	3567	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	40.0	Depositor
Minimum defocus (nm)	1.2	Depositor
Maximum defocus (nm)	2.8000000000000003	Depositor
Magnification	104478.0	Depositor
Image detector	FEI FALCON III (4k x 4k)	Depositor

2 Map visualisation ⓘ

This section contains visualisations of the EMDB entry EMD-18785. These allow visual inspection of the internal detail of the map and identification of artifacts.

Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

2.1 Orthogonal projections ⓘ

This section was not generated.

2.2 Central slices ⓘ

This section was not generated.

2.3 Largest variance slices ⓘ

This section was not generated.

2.4 Orthogonal standard-deviation projections (False-color) ⓘ

This section was not generated.

2.5 Orthogonal surface views ⓘ

This section was not generated.

2.6 Mask visualisation ⓘ

This section was not generated. No masks/segmentation were deposited.

3   Map analysis ⓘ

This section contains the results of statistical analysis of the map.

3.1   Map-value distribution ⓘ

This section was not generated.

3.2   Volume estimate versus contour level ⓘ

This section was not generated.

3.3   Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

4 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.