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 EM Validation Summary Report ⓘ

May 27, 2024 – 06:27 PM EDT

PDB ID	:	5K7S
EMDB ID	:	EMD-8221
Title	:	MicroED structure of proteinase K at 1.6 A resolution
Authors	:	de la Cruz, M.J.; Hattne, J.; Shi, D.; Seidler, P.; Rodriguez, J.; Reyes, F.E.; Sawaya, M.R.; Cascio, D.; Eisenberg, D.; Gonen, T.
Deposited on	:	2016-05-26
Resolution	:	1.60 Å(reported)
Based on initial model	:	5I9S

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 1.60 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=67.60 Å, b=67.60 Å, c=101.36 Å, α=90°, β=90°, γ=90°, space group=P 43 21 2	Depositor
Number of images used	Not provided	
Resolution determination method	DIFFRACTION PATTERN/LAYERLINES	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose $(e^-/\text{Å}^2)$	0.004	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 ⓘ

3.1   Standard geometry ⓘ

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

3.2   Too-close contacts ⓘ

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

3.3   Torsion angles ⓘ

3.3.1   Protein backbone ⓘ

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

3.3.2   Protein sidechains ⓘ

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

3.3.3   RNA ⓘ

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

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

validation-pack failed to run properly - this section is therefore empty.

3.5   Carbohydrates ⓘ

validation-pack failed to run properly - this section is therefore empty.

3.6   Ligand geometry ⓘ

validation-pack failed to run properly - this section is therefore empty.

3.7   Other polymers ⓘ

validation-pack failed to run properly - this section is therefore empty.

3.8 Polymer linkage issues (i)

There are no chain breaks in this entry.