

PK-1/PROK1 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	PROK1;Mambakine;Prokineticin-1;EG-VEGF
Protein Construction:	Ala20-Phe105
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q14A28-1
Molecular Weight:	36.4 kDa (predicted). Due to glycosylation, the protein migrates to 38-48 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

PK-1 (Ac10) is a baculovirus-encoded serine/threonine kinase, a pk-1 knockout AcMNPV failed to produce infectious progeny, while the pk-1 repair virus could rescue this defect. The kinase activity of PK-1 is essential in regulating viral propagation. Electron microscopy revealed that pk-1 deletion affected the formation of normal nucleocapsids. PK-1 appears to phosphorylate some viral or cellular proteins that are essential for DNA packaging to regulate nucleocapsid assembly.

Reference

Liang C, et al. Autographa californica multiple nucleopolyhedrovirus PK-1 is essential for nucleocapsid assembly. *Virology*. 2013 Sep 1;443(2):349-57. doi: 10.1016/j.virol.2013.05.025. Epub 2013 Jun 13. PMID: 23768784.

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