

## Midkine Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	MK1;ARAP;MKARAP;MEK;MK;NEGF2;MDK
Protein Construction:	Lys23-Asp140
Species:	Mouse
Expression Host:	E. coli
Accession:	P12025
Molecular Weight:	14.03 kDa (predicted). The protein migrates to 17-20 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/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in PBS, 350 mM NaCl, 200 mM L-arginine (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

Midkine is a heparin-binding growth factor, originally reported as the product of a retinoic acid-responsive gene during embryogenesis, but currently viewed as a multifaceted factor contributing to both normal tissue homeostasis and disease development. Midkine is abnormally expressed at high levels in various human malignancies and acts as a mediator for the acquisition of critical hallmarks of cancer, including cell growth, survival, metastasis, migration, and angiogenesis.

#### Reference

Filippou PS, et al. Midkine (MDK) growth factor: a key player in cancer progression and a promising therapeutic target. *Oncogene*. 2020 Mar;39(10):2040-2054. doi: 10.1038/s41388-019-1124-8. Epub 2019 Dec 4. PMID: 31801970.

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