

Recombinant Human Midkine (neurite growth-promoting factor 2)

Cat. No. MDK-5077H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human MDK was expressed in E. coli and purified recombinant Human MDK protein.
Species	Human
Source	Human
Description	MDK and its functionally-related protein Pleiotrophin are heparin-binding neurotrophic factors that signal through the same receptor, known as anaplastic lymphoma kinase (ALK). MDK plays an important regulatory role in epithelial-mesenchymal interactions during fetal development and in postnatal development. MDK chemoattracts embryonic neurons, neutrophils and macrophages, and by signaling through the ALK receptor it exerts angiogenic, growth and survival activities during tumorigenesis.
Form	Lyophilized from PBS, pH 7.4. Reconstitute in water to a concentration of 0.1-1.0 mg/ml.
Purity	> 98% pure by SDS PAGE and HPLC
Sequence	Region of Midkine protein corresponding to amino acids VAKKKDKVKK GGPGSECAEW AWGPCTPSSKDCGVGFREGT CGAQTQRIRC RVPCNWKKEF GADCKYKFEN WGACDGGTGT KVRQGTLKKA RYNAQCQETIRVTKPCTPKT KAKAKAKKGK GKD.

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Molecular Mass	13.4 kDa
Applications	Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	MDK

GENE INFORMATION

Gene Name	MDK midkine (neurite growth-promoting factor 2) [Homo sapiens]
Synonyms	MDK; midkine (neurite growth-promoting factor 2); MK; NEGF2; FLJ27379; midkine; ARAP; amphiregulin-associated protein; midgestation and kidney protein; neurite outgrowth-promoting protein; neurite outgrowth-promoting factor; MK1; Neurite outgrowth-promoting factor 2; OTTHUMP000001970422; OTTHUMP000001970412; OTTHUMP000001970452
Gene ID	4192
mRNA Refseq	NM_001012333
Protein Refseq	NP_001012333
MIM	162096
UniProt ID	P2174
Chromosome	11p11.2

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Location	
Pathway	Glypican 2 network;Syndecan-4-mediated signaling events
Function	growth factor activity; heparinbinding
PDB rendering basedon 1mkc.	