

# Recombinant Human Midkine (neurite growth-promoting factor 2)

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant human MDK was expressed in E. coli and purified recombinant Human MDK protein.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	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.
<b>Form</b>	Lyophilized from PBS, pH 7.4. Reconstitute in water to a concentration of 0.1-1.0 mg/ml.
<b>Purity</b>	> 98% pure by SDS PAGE and HPLC
<b>Sequence</b>	Region of Midkine protein corresponding to amino acids VAKKKDKVKK GGPGSECAEW AWGPCTPSSKDCGVGFREGT CGAQTQRIRC RVPCNWKKEF GADCKYKFEN WGACDGGTGT KVRQGTLKKA RYNAQCQETIRVTKPCTPKT KAKAKAKKGK GKD.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">MDK midkine (neurite growth-promoting factor 2) [ Homo sapiens ]</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">4192</a>
<b>mRNA Refseq</b>	<a href="#">NM_001012333</a>
<b>Protein Refseq</b>	<a href="#">NP_001012333</a>
<b>MIM</b>	<a href="#">162096</a>
<b>UniProt ID</b>	<a href="#">P2174</a>
<b>Chromosome</b>	11p11.2

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127


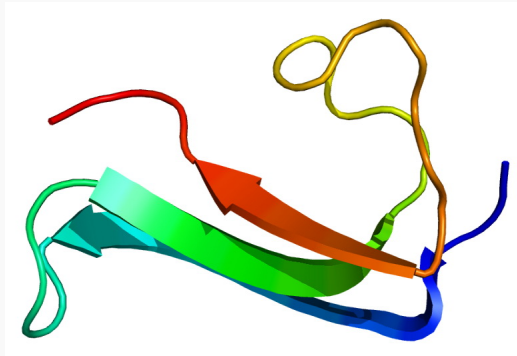
 45-1 Ramsey Road, Shirley, NY 11967, USA

**Location****Pathway**

Glypican 2 network; Syndecan-4-mediated signaling events

**Function**

growth factor activity; heparinbinding

**PDB rendering  
based on 1mkc.** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA