

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

Cat. No. MDK-6917H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human MDK protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 15.7 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	21-143aa
<b>Description</b>	MDK is a basic heparin-binding growth factor of low molecular weight, a member of the NEGF family whose founding member is pleiotrophin. This protein exhibits neurite outgrowth-promoting activity and may play a role in nervous system development and/or maintenance. MDK is pleiotropic, capable of exerting activities such as cell proliferation, cell migration, angiogenesis and fibrinolysis.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1 M NaCl 2mM DTT, and 20% Glycerol.
<b>Molecular Mass</b>	15.7 kDa (144aa), confirmed by MALDI-TOF.
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MVAKKKDKVK KGGPGSECAE WAWGPCTPSS KDCGVGFREG TCGAQTQRIR CRVPCNWKKE FGADCKYKFE NWGACDGGTG TKVRQGTLLK ARYNAQCQET IRVTKPCTPK TKAKAKAKKG KGKD

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<b>Endotoxin</b>	< 1.0 eu per 1 µg of protein (determined by lal)
<b>Purity</b>	>90% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	MDK midkine (neurite growth-promoting factor 2) [ Homo sapiens ]
<b>Official Symbol</b>	MDK
<b>Synonyms</b>	MDK; midkine (neurite growth-promoting factor 2); NEGF2; midkine; FLJ27379; MK; ARAP; amphiregulin-associated protein; midgestation and kidney protein; neurite outgrowth-promoting protein; neurite outgrowth-promoting factor 2;
<b>Gene ID</b>	4192
<b>mRNA Refseq</b>	NM_001012333
<b>Protein Refseq</b>	NP_001012333
<b>MIM</b>	162096
<b>UniProt ID</b>	P21741

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<b>Chromosome Location</b>	11p11.2
<b>Pathway</b>	Glypican 2 network, organism-specific biosystem; Syndecan-4-mediated signaling events, organism-specific biosystem;
<b>Function</b>	growth factor activity; growth factor activity; heparin binding;

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