

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	21-143aa
Description	MDK is a basic heparin-binding growth factor of low molecular weight, a member of the NFGF 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1 M NaCl 2mM DTT, and 20% Glycerol.
Molecular Mass	15.7 kDa (144aa), confirmed by MALDI-TOF.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MVAKKKDKVK KGGPGSECAE WAWGPCTPSS KDCGVGFREG TCGAQTQRIR CRVPCNWKKE FGADCKYKFE NWGACDGGTG TKVRQGTLKK ARYNAQCQET IRVTKPCTPK TKAKAKAKKG KGKD

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Endotoxin	< 1.0 eu per 1 µg of protein (determined by lal)
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	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.
Concentration	0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	MDK midkine (neurite growth-promoting factor 2) [Homo sapiens]
Official Symbol	MDK
Synonyms	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;
Gene ID	4192
mRNA Refseq	NM_001012333
Protein Refseq	NP_001012333
MIM	162096
UniProt ID	P21741

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

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