Active Recombinant Mouse Mdk Protein

Cat. No. Mdk-124M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse midkine (Mdk), transcript variant 1 without tag was expressed in E.coli.
Species	Mouse
Source	E.coli
Description	This gene encodes a secreted growth factor that belongs to the pleiotrophin/midkine heparin-binding protein family and functions in a variety of biological processes. The encoded cytokine promotes the growth, differentiation, survival and migration of several target cells including leucocytes involved in inflammation. This protein plays a role in the formation of scar tissue and intraperitoneal adhesions, and promotes neurite outgrowth and neuron survival. The protein encoded by this gene is associated with obesity and inhibition of insulin signaling in fat cells. A pseudogene of this gene is present on chromosome 11. Alternative splicing results in multiple transcript variants.
Bio-activity	Determined by its ability to chemoattract human neutrophils using a concentration range of 10-100 ng/ml.Cell treatment (PMID: 28489825)
Molecular Mass	13.3 kDa
AA Sequence	VAKKKEKVKKGSECSEWTWGPCTPSSKDCGMGFREGTCGAQTQRVHCKVPCNW KKEFGADCKYKFESWGACDGSTGTKARQGTLKKARYNAQCQETIRVTKPCTSKTK SKTKAKKGKGKD

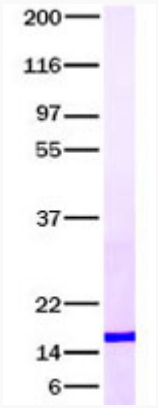
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Endotoxin	Endotoxin level is < 0.1 ng/μg of protein (< 1 EU/μg)
Purity	>95%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 μM filtered solution of 20mM phosphate buffer,100mM NaCl, pH 7.2
Reconstitution	Resuspend the protein in the desired concentration in proper buffer.

GENE INFORMATION

Gene Name	Mdk midkine [Mus musculus (house mouse)]
Official Symbol	Mdk
Synonyms	Mdk; midkine; MK; Mek; midkine; retanoic acid-responsive protein; retinoic acid-induced differentiation factor; retinoic acid-responsive protein
Gene ID	17242
mRNA Refseq	NM_010784
Protein Refseq	NP_034914
UniProt ID	P12025

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