Recombinant Mouse Midkine

20150227BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**M10-095**
Size:	20 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	*17242*
Synonyms:	Mdk; MK; Mek

Midkine and its functionally-related protein Pleiotrophin are heparin-binding neurotrophic factors that signal through the same receptor, known as anaplastic lymphoma kinase (ALK). MK plays an important regulatory role in epithelial-mesenchymal interactions during fetal development and in postnatal lung development. MK chemoattracts embryonic neurons, neutrophils and macrophages, and by signaling through the ALK receptor it exerts angiogenic, growth and survival activities during tumorgenesis. Recombinant murine Midkine is a 13.4 kDa protein containing 121 amino acid residues including five intra-molecular disulfide bonds.

Sequence

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VAKKKEKVKK GSECSEWTWG PCTPSSKDCG MGFREGTCGA
QTQRVHCKVP CNWKKEFGAD CKYKFESWGA CDGSTGTKAR
QGTLKKARYN AQCQETIRVT KPCTSKTKSK TKAKKGKGKD
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Database References

Protein RefSeq:	NP_034914.1
Uniprot ID:	P12025
mRNA RefSeq:	NM_010784.4

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	120
MW:	13.3 kDa

Biological Activity: Determined by its ability to chemoattract human neutrophils using a concentration range of 10-100 ng/ml.

AVOID REPEATED FREEZE AND THAW CYCLES!

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