

Mdk

Recombinant Mouse Midkine

Catalog No.	CRM023A CRM023B CRM023C	Quantity:	5 µg 20 µg 1 mg
Alternate Names:	MK, Mek		
Description:	<p>Midkine, also named MK, MK1, and NRG-2, belongs to the neurotrophic and developmentally-regulated heparin-binding molecules family. It is encoded by the MDK gene. The Midkine protein includes five intrachain disulfide bonds that holds two domains, each which contains three antiparallel beta-sheets. A chondroitin sulfate proteoglycan, protein-tyrosine phosphatase zeta (PTPzeta), is a receptor for MK. MK promotes the growth, survival, and migration of various cells, and plays roles in neurogenesis and epithelial mesenchymal interactions during organogenesis. The predicted molecular weight is approximately 13.2 kDa, based on a mature peptide length of 118 amino acid residues in the mouse and 121 amino acid residues in the human. Across species, MK shows 87% identity between the human and mouse proteins.</p> <p>Recombinant Mouse Midkine is a single non-glycosylated polypeptide chain containing 120 amino acids.</p>		
Gene ID:	17242		
Source:	<i>E.coli</i>		
Molecular Weight:	13.2 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH7.4.		
Purity:	>96% by SDS-PAGE and HPLC analyses.		
Endotoxin Level:	<1 EU/µg as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration range of 10-100 ng/ml.		
Amino Acid Sequence:	VAKKKEKVKK GSECSEWTWG PCTPSSKDCG MGFREGTCGA QTQRVHCKVP CNWKKEFGAD CKYKFESWGA CDGSTGTKAR QGTLKKARYN AQCQETIRVT KPCTSKTKSK TKAKKGKGD		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	<p>The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application.</p> <p>Avoid repeated freeze/thaw cycles.</p>		

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