
Product Data Sheet

Product Name: Midkine Mouse
 Cat. No.: GP20755
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	NEGF-2; Neurite Growth-Promoting Factor 2; MK; Neurite outgrowth-promoting protein; Midgestation and kidney protein; Amphiregulin-associated protein; ARAP; Neurite outgrowth-promoting factor 2; FLJ27379; Midkine; MK1; NEGF2.		
Amino Acid Sequence	VAKKKEKVKK GSECSEWTWG PCTPSSKDCG MGFREGTCGA QTQRVHCKVP CNWKKEFGAD CKYKFESWGA CDGSTGTKAR QGTLKKARYN AQCQETIRVT KPCTSKTKSK TKAKKGKGD		
Solubility	It is recommended to reconstitute the lyophilized Midkine Mouse in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.		

Introduction

Midkine (MK) is the product of a retinoic acid responsive gene, MK, and is a member of a family of heparin binding factors. It contains 121 amino acid residues including 10 conserved cysteine residues, all of which appear to be disulphide linked. Midkine is expressed during embryogenesis, showing an expression pattern that suggests functions in neurogenesis, cell migration, secondary organogenetic induction, and mesoderm-epithelial interaction. The widespread downregulation of MK in the adult human is reverted in a number of cancers, in which polypeptides are able to act as both transforming growth factors and promoters of angiogenesis. Midkine (MK), induces chemotaxis of human neutrophils and was found to trigger mobilization of intracellular calcium of these cells. Midkine induces histamine release from rat peritoneal mast cells with a rapid response in a dose dependent manner. Midkine is also a potent stimulator of collagen and glycosaminoglycan synthesis.

Caution: Product has not been fully validated for medical applications. For research use only.

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Biological Activity

Fully biologically active when compared to standard. Determined by its ability to chemoattract human neutrophils using a concentration range of 10-100 ng/ml corresponding to a specific activity of 10,000-100,000IU/mg.

Stability

Lyophilized Midkine Mouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Midkine Mouse should be stored at 4°C between 2-7 days and for future use below -18°C .Please prevent freeze-thaw cycles.

Background

Midkine Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 120 amino acids and having a molecular mass of 13.3kDa.The Midkine Mouse is purified by proprietary chromatographic techniques.

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