9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Midkine Human, His

Midkine Human Recombinant, His Tag
NTR0040

Product Overview

Name	Midkine Human, His

Description

Midkine Human Recombinant, His Tag

Accession (Primary)	P21741

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.

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.

Source

Escherichia Coli.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized from 0.5mg/ml in 0.05M phosphate buffer and 0.1M NaCl, pH 7.2.

Stability

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

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Purity

Greater than 95% as determined by SDS-PAGE.

Amino acid sequence

MKHHHHHHHM KKKDKVKKGG PGSECAEWAW GPCTPSSKDC GVGFREGTCG AQTQRIRCRV PCNWKKEFGA DCKYKFENWG ACDGGTGTKV RQGTLKKARY NAQCQETIRV TKPCTPKTKA KAKAKKGKGK D.

Solubility

Add 0.2 ml of PBS pH 7.2 and let the lyophilized pellet dissolve completely.

Precautions

Midkine Human, His is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P21741)