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32-1608: rMidkine Recombinant Protein

Alternative Name : Midkine,MK,Mdk.

Description

Source : Escherichia Coli. Midkine Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 120 amino acids and having a molecular mass of 13.2kDa.The Midkine Rat is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4.
Storage condition :	Lyophilized Midkine Rat although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Midkine Rat should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.
Amino Acid :	VAKKKDKVKK GSECSEWTWG PCTPSSKDCG MGFREGTCGA QTQRIHCKVP CNWKKEFGAD CKYKFESWGA CDGSTGTKAR QGTLKKARYN AQCQETIRVT KPCTSKTKSK AKAKKGKGKD.

Application Note

It is recommended to reconstitute the lyophilized Midkine Rat in sterile 18M-cm H2O not less than 100Ã‚Âµg/ml, which can then be further diluted to other aqueous solutions. The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration range of 10-100 ng/ml.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.