

Midkine, murine recombinant

CATALOG #:	7158-10	10 µg
	7158-50	50 µg
ALTERNATE NAMES:	MK, NEGF-2	
SOURCE:	E. Coli	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	13.3 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 0.4 x PBS, pH 7.4.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

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 tumorigenesis. Recombinant murine Midkine is a 13.3 kDa protein containing 120 amino acid residues including five intra-molecular disulfide bonds.

BIOLOGICAL ACTIVITY:

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

AMINO ACID SEQUENCE:

VAKKKEKVKK GSECSEWTWG PCTPSSKDCG MGFREGTCGA QTQRVHCKVP
CNWKKEFGAD CKYKFESWGA CDGSTGTKAR QGTLKARYN AQCQETIRVT
KPCTSKTKSK TKAKKGKGD

RELATED PRODUCTS:

- Midkine, human recombinant (**Cat # 4479-20, -100, -1000**)
- Midkine Antibody (**Cat # 5479-100**)
- Midkine Antibody (**Cat # 5479R-200**)

FOR RESEARCH USE ONLY! Not to be used in humans.