

TECHNICAL DATA SHEET

Recombinant Mouse Midkine (Carrier-free)

Catalog Number: 21-7113

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Mouse Midkine (Carrier-free)

DESCRIPTION

Midkine, also known as neurite growth-promoting factor 2, is a heparin-binding nonglycosylated low molecular weight protein. It is expressed in a variety of cell types during embryogenesis, and has functions related to cell growth, migration and angiogenesis. Midkine signals through the anaplastic lymphoma kinase (ALK) receptor which stimulates phosphorylation and kinase activation events and results in cell proliferation.

MOLECULAR MASS

Recombinant Mouse Midkine consists of 120 amino acid residues including five intra-molecular disulfide bonds, and has a molecular weight of 13.3 kDa.

AMINO ACID SEQUENCE

VAKKKEKVKK GSECSEWTWG PCTPSSKDCG MGFREGTCGA QTQRVHCKVP CNWKKEFGAD CKYKFESWGA CDGSTGTKAR QGTLKKARYN AQCQETIRVT KPCTSKTKSK TKAKKGGKGD

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Within a concentration range of 10-100 ng/ml, the ability to chemoattract human neutrophils is measured.

RESEARCH AREAS

Angiogenesis & Cardiovascular, Neurobiology

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Böhlen P and Kovesdi I. 1991. Prog Growth Factor Res. 3(2): 143-157. Muramatsu T. 1993. Int. J Dev Biol. 37: 183-188. Muramatsu H, Shirahama H, Yonezawa S, Maruta H and Muramatsu T. 1993. Dev Biol. 159(2): 392-402. Muramatsu T. 2002. J Biochem. 132(3): 359-371.

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