

# Recombinant human Midkine protein

Catalog Number: ATGP0353

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-143aa

### UniProt No.

P21741

### NCBI Accession No.

NP\_002382

### Alternative Names

MDK, MK, NEGF2, midkine (neurite growth-promoting factor 2), FLJ27379, Midkine

## PRODUCT SPECIFICATION

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### Molecular Weight

15.7 kDa (144aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 2mM DTT, and 20% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Midkine, also known as Neurite Growth-promoting Factor 2, is a basic heparin-binding growth factor of low molecular weight, a member of the NEGF family whose founding member is pleiotrophin. This protein exhibits neurite outgrowth-promoting activity and may play a role in nervous system development and/or maintenance. Midkine is pleiotropic, capable of exerting activities such as cell proliferation, cell migration, angiogenesis and

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fibrinolysis. Recombinant human Midkine protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

## Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MVAKKKDKVK KGGPGSECAE WAWGPCTPSS KDCGVGFREG TCGAQTQRIR  
CRVPCNWKKE FGADCKYKFE NWGACDGGTG TKVRQGLKK ARYNAQCQET IRVTKPCTPK TKAKAKAKKG KGKD

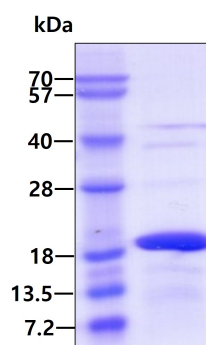
## General References

Mashima T., et al. (2009). *Oncogene*. 28(1):9-19.

Jin Z., et al. (2008). *Clin Cancer Res*. 14(16):5033-42.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.