

# Product information



## Midkine, 21-143 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0353

**Synonyms:** MDK, MK, NRG2

**NCBI Accession No.:** NP\_002382

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

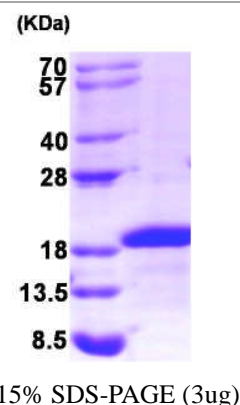
**Form:** Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 0.1 M NaCl  
2mM DTT, and 20% Glycerol

**Molecular Weight:** 15.7 kDa (144aa)

**Purity:** > 90% by SDS - PAGE

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** < 1.0 EU per 1 µg of protein (determined by LAL method )



### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MVAKKKDKVK KGGPGSECAE WAWGPCTPSS KDCGVGFREG TCGAQTQRIR CRVPCNWKKE FGADCKYKFE  
NWGACDGGTG TKVRQGTLLK 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.

**WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.**

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**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.  
Avoid repeated freezing and thawing cycles.

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