Recombinant human Midkine protein

Catalog Number: ATGP0353

PRODUCT INFORMATION

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

Molecular Weight
15.7 kDa (144aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

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

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

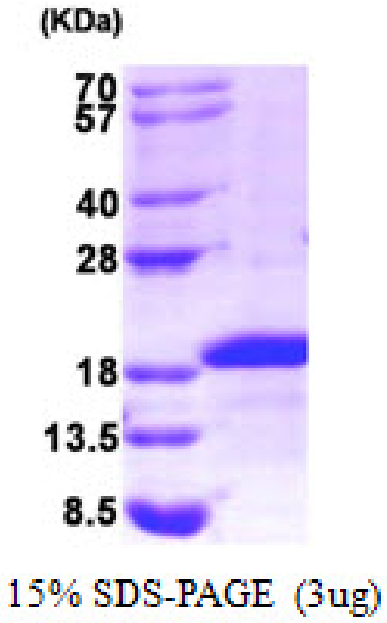
MGSSHHHHHH SSGLVPRGSH MVAKKKDKVK KGGPGSECAE WAWGPCTPSS KDCGVGFREG TCGAQTQRIR CRVPCNWKKE FGADCKYKFE NWGACDGGTG TKVRQGTLKK ARYNAQCQET IRVTKPCTPK TKAKAKAKKG KGKD

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



15% SDS-PAGE (3ug)

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