

For Research Use Only

Recombinant Mouse Midkine protein (mFc Tag)



Catalog Number: Eg3927

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse Mdk protein Lys23-Asp140 (Accession# P12025) with a mouse IgG Fc tag at the C-terminus.

GeneID:

17242

Accession:

P12025

Predicted Molecular Mass:

39.7 kDa

SDS-PAGE:

42-48 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Midkine (MK) is a heparin-binding growth factor and a cytokine, identified as a product of a retinoic acid-responsive gene involved in embryonic development. MK promotes cell survival, migration, differentiation, and growth, and is involved in various physiological and pathological processes such as neuronal development, tissue repair, inflammation, and malignancies. It is upregulated in numerous injured tissues and most human malignant tumors, suggesting its role in tissue repair and cancer progression. It also has been implicated in Alzheimer's disease, with increased levels in sera from patients, and is being explored as a potential biomarker and therapeutic target in various diseases.

References

1. Muramatsu T. et al. (2010). Proc Jpn Acad Ser B Phys Biol Sci. 86(4):410-425.
2. Cai YQ. et al. (2020). Cytokine. 135:155242.
3. Weckbach LT. et al. (2011). ScientificWorldJournal. 11:2491-2505.
4. Jones DR. et al. (2014). Br J Pharmacol. 171(12):2925-2939.
5. Filippou PS. et al. (2020). Oncogene. 39(10):2040-2054.

Synonyms

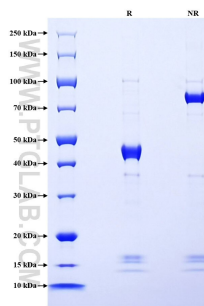
Mdk, MK, Retanoic acid-responsive protein, Retinoic acid-induced differentiation factor

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse Midkine was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.