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DATASHEET

Recombinant human Midkine protein

Product overview

Name Recombinant human Midkine protein

Cat No HB7169

Biological description Heparin-binding cytokine that promotes growth, survival, migration and other activities of target cells.

Species of origin human

Alternative names Recombinant Human Midkine, NEGF-2, Neurite Growth-Promoting Factor 2, MK, Neurite outgrowth-

promoting protein, Midgestation and kidney protein, Amphiregulin-associated protein, ARAP, Neurite

outgrowth-promoting factor 2, FLJ27379, Midkine, MK1, NEGF2.

Purity >95%

Description Heparin-binding growth factor

Biological Data

Application notes Determined by its ability to chemoattract human neutrophils using a concentration range of 0.1-10

ng/ml corresponding to a specific activity of 100,000-10,000,000IU/mg.

Solubility & Handling

Solubility overview

To make a stock solution, reconstitute in sterile $18M\Omega$ cm water at a concentration > $100\mu g/ml$, which can then be diluted to make a working solution

Handling

- Solutions should be made in sterile deionized water (not less than 100 µg/ml). This solution can then be further diluted with other aqueous solutions.
- Following reconstitution, solutions may be stored at 4°C and are useable for around 2-7 days and for future use store at -18°C.
- For long term storage, a carrier protein (0.1% HSA or BSA) should be added to stock solutions. Solutions should be aliquoted into tightly sealed vials for storage at -20°C. Freeze-thaw cycles should be prevented.

Shipping Conditions Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

UniProt ID P21741 Source E. Coli.

Appearance White lyophilized powder (sterile filtered & freeze-dried)

Formulation Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4

References

Laminin is associated with the neurite outgrowth-promoting factors" found in conditioned media"

Lander AD et al (1985) Proc Natl Acad Sci U S A 82(7)

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Astroglial neurotrophic and neurite-promoting factors

Muller HW *et al* (1995) Pharmacol Ther 65(1) **PubMedID** 7716180

Midkine: a promising molecule for drug development to treat diseases of the central nervous system

Muramatsu T (2011) Curr Pharm Des 17(5) **PubMedID**21375488