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## DATASHEET

### Recombinant human Midkine protein

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#### Product overview

<b>Name</b>	Recombinant human Midkine protein
<b>Cat No</b>	HB7169
<b>Biological description</b>	Heparin-binding cytokine that promotes growth, survival, migration and other activities of target cells.
<b>Species of origin</b>	human
<b>Alternative names</b>	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.
<b>Purity</b>	>95%
<b>Description</b>	Heparin-binding growth factor

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#### Biological Data

<b>Application notes</b>	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.
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#### Solubility & Handling

<b>Solubility overview</b>	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
<b>Handling</b>	<ul style="list-style-type: none"><li>Solutions should be made in sterile deionized water (not less than 100 <math>\mu</math>g/ml). This solution can then be further diluted with other aqueous solutions.</li><li>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.</li><li>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.</li></ul>
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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#### Chemical Data

<b>UniProt ID</b>	P21741
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4

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#### 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)

**PubMedID** [3856891](#)

**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](#)

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