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# DATASHEET

## Recombinant human Artemin protein

### Product overview

<b>Name</b>	Recombinant human Artemin protein
<b>Cat No</b>	HB8222
<b>Biological description</b>	Neurotrophic factor from the GDNF family ligands. It is involved in development of the nervous system and neuronal differentiation and survival.
<b>Species of origin</b>	human
<b>Alternative names</b>	Recombinant Human Artemin, ART, ARTN , EVN, NBN.
<b>Purity</b>	>98%
<b>Description</b>	Neurotrophic factor from the GDNF family ligands

### Biological Data

<b>Application notes</b>	~4-8ng/ml (determined by the dose-dependent proliferation of the SH-SY5Y cell line). The activity can also be determined by its ability to promote survival and neurite outgrowth.
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### Solubility & Handling

<b>Solubility overview</b>	To make a stock solution, reconstitute in sterile 18MΩcm water at a concentration > 100µg/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 µg/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.

### Chemical Data

<b>UniProt ID</b>	O95441
<b>Source</b>	E. Coli.
<b>Appearance</b>	White lyophilized powder (sterile filtered & freeze-dried)
<b>Formulation</b>	Lyophilized after dialysis against 10mM sodium citrate (pH4.5) and sodium chloride (25mM)

### References

#### Artemin and an Artemin-Derived Peptide, Artefin, Induce Neuronal Survival, and Differentiation Through Ret and NCAM

Ilieva M *et al* (2019) Front Mol Neurosci 12

**PubMedID** [30853893](#)

#### Artemin is an RNA-binding protein with high thermal stability and potential RNA chaperone activity

Warner AH *et al* (2004) Arch Biochem Biophys 424(2)

PubMedID 15047191

Artemin, a novel member of the GDNF ligand family, supports peripheral and central neurons and signals through the GFRalpha3-RET receptor complex

Baloh RH *et al* (1998) Neuron 21(6)

PubMedID 9883723

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