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DATASHEET

Recombinant human Artemin protein

Product overview

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

Biological Data

Application notes	~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

Solubility overview	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
Handling	<ul style="list-style-type: none">• 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.
Important	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	O95441
Source	E. Coli.
Appearance	White lyophilized powder (sterile filtered & freeze-dried)
Formulation	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
