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DATASHEET

Recombinant human Artemin protein

Product overview

Name Recombinant human Artemin protein

Cat No HB8222

Biological descriptionNeurotrophic 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.

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

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 095441 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

llieva M *et al* (2019) Front Mol Neurosci 12 **PubMedID**3085389

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

PubMedID 1504719

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