
Product Data Sheet

Product Name: Artemin Human
 Cat. No.: GP20072
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	ART; ARTN ; EVN; NBN.		
Amino Acid Sequence	AGGPGSRARA AGARGCRLRS QLVPVRALGL GHRSELVRF RFCSGSCRRA RSPHDLSLAS LLGAGALRPP PGSRPVSQPC CRPTRYEAVS FMDVNSTWRT VDRLSATACG CLG.		
Solubility	It is recommended to reconstitute the lyophilized Artemin in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Artemin was lyophilized after extensive dialysis against 10mM sodium citrate pH-4.5 and 25mM sodium chloride.		

Introduction

The protein encoded by this gene is a member of the glial cell line-derived neurotrophic factor (GDNF) family of ligands which are a group of ligands within the TGF-beta superfamily of signaling molecules. GDNFs are unique in having neurotrophic properties and have potential use for gene therapy in neurodegenerative disease. Artemin has been shown in culture to support the survival of a number of peripheral neuron populations and at least one population of dopaminergic CNS neurons. Its role in the PNS and CNS is further substantiated by its expression pattern in the proximity of these neurons. This protein is a ligand for the RET receptor and uses GFR-alpha 3 as a coreceptor. Four alternatively spliced transcripts have been described, two of which encode the same protein.

Biological Activity

The activity is determined by the dose-dependent proliferation of the SH-SY5Y cell line and is typically 4-8 ng/mL. The activity can also be determined by its ability to promote

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survival and neurite outgrowth.

Stability

Lyophilized Artemin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Artemin Human Recombinant should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Artemin Human Recombinant produced in E.Coli is a disulfide-linked homodimer, non-glycosylated, polypeptide chain containing 2 x 113 amino acids and having a total molecular mass of 24.2 kDa. Artemin is purified by proprietary chromatographic techniques.

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