



## *Recombinant Human Artemin*

*Catalog Number: 100-23*

*Accession Number: Q5T4W7*

### *Specifications and Uses:*

**Alternate Names:** ARTN, enovin, neublastin

**Description:**

Artemin is a novel member of the glial cell line-derived neurotrophic factor (GDNF) ligand family. Current evidence suggests that Artemin signals through the receptor complex, GFR $\alpha$ 3-RET, to influence neuron survival in vitro and in vivo. Recombinant human Artemin is a non-glycosylated, disulfide-linked homodimer, containing two 113 amino acid chains, with a total molecular weight of 24.2 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant Artemin is lyophilized with 10 mM sodium citrate pH 4.5 and 25 mM NaCl. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  98%) determined by:**

Reducing and Non-reducing SDS-PAGE, HPLC

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by the dose-dependant 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 survival and neurite outgrowth.

**AA Sequence:**

AGGPGSRARA AGARGCRLRS QLVPVRALGL GHRSDLVRF RFCSGSCRRA RSPHDLSLAS LLGAGALRPP  
PGSRPVSQPC CRPTRYEAVS FMDVNSTWRT VDRLSATACG CLG

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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