

GFH23

Recombinant Human Artemin

Description

Artemin is a Neurotrophin member of the Glial cell line-derived Neurotrophic Factor (GDNF) ligand family. Artemin is highly expressed in the adult pituitary gland, placenta, and trachea, and shows low level expression in the brain, spinal cord, and peripheral tissues. Artemin signals through the RET receptor and GDNF family receptor α 3 (GFR α 3) co-receptor complex to support neuronal survival.

Length	113 / 226 aa
Molecular Weight	12.1 / 24.2 kDa
Source	E. coli
Accession Number	Q5T4W7
Purity	\geq 95% determined by reducing and non-reducing SDS-PAGE

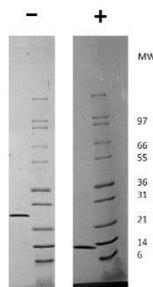
Specifications

Alternative Names	ARTN, ENOVIN, NBN1, Enovin3, neublastin, EVN1, neurotrophic factor, neurotrophic factor artemin
Biological Activity	Human Artemin is fully biologically active when compared to standards. The ED50, calculated by the dose-dependant proliferation assay the SH-SY5Y cell line, was found to be 4 - 8 ng/ml. The activity can also be determined by its ability to promote survival and neurite outgrowth.
Endotoxin Level	\leq 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium citrate, 25 mM sodium chloride, pH 4.5
AA Sequence	AGGPGSRARA AGARGCRLRS QLVVPRALGL GHRSEDLVRF RFCSGSCRRA RSPHDLSLAS LLGAGALRPP PGSRPVSQPC CRPTRYEAVS FMDVNSTWRT VDRLSATAACG CLG

Preparation and 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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Human Artemin has a predicted Mw of 24.2 kDa (each monomer is 12.1 kDa).