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Recombinant Human Artemin

Description: Artemin is a disulfide-linked homodimeric neurotrophic factor structurally related to GDNF, Artemin, Neurturin and Persephin. These proteins belong to the cysteine-knot superfamily of growth factors that assume stable dimeric protein structures. Artemin, GDNF, Persephin and Neurturin all signal through a multicomponent receptor system, composed of RET (receptor tyrosine kinase) and one of the four GFRalpha (alpha1-alpha4) receptors. Artemin prefers the receptor GFRalpha3-RET, but will use other receptors as an alternative. Artemin supports the survival of all peripheral ganglia such as sympathetic, neural crest and placodally derived sensory neurons, and dopaminergic midbrain neurons. The functional human Artemin ligand is a disulfide-linked homodimer, of two 12.0 kDa polypeptide monomers. Each monomer contains seven conserved cysteine residues, one of which is used for interchain disulfide bridging and the others are involved in intramolecular ring formation known as the cysteine knot configuration. Recombinant human Artemin is a 24.2 kDa, disulfide-linked homodimer formed by two identical 113 amino acid subunits.

Source:	E. coli
Molecular Weight:	24.2 kDa
Purity:	> 98% by SDS-PAGE and HPLC analyses
Endotoxin level:	< 0.1 ng per µg of Artemin
Stabilizer:	none
Formulation:	lyophilized

Biological Activity: Determined by its ability to promote survival and neurite outgrowth and dorsal root ganglion neurons.

Reconstitution: The human Artemin should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

Stability: The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human Artemin should be stored in working aliquots at -20°C. **Avoid repeated freeze-thaw cycles.**

Usage: Human Artemin offered for research use. Not for drug use. **Not for human use.**

Catalogue number: 100-128

Size: 20 µg

****please note: always centrifuge product before opening Vial.****