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Recombinant Human Artemin
Catalog # PBG10024

Specification

Recombinant Human Artemin - Product Information

Recombinant Human Artemin - Additional Information

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 GFRα (α1-α4) receptors. Artemin prefers the receptor GFRα3-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 dompaminergic 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.

BiologicalActivity
Determined by it's ability to promote survival and neurite outgrowth and dorsal root ganglion neurons.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ μg of protein (<1EU/ μg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Human Artemin is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human Artemin - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human Artemin - Images