Recombinant Human ARTN Protein

Cat. No. ARTN-703H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ARTN Protein is a single non-glycosylated polypeptide chain containing 113 amino acids without tag purified from serum-free CHO growth media by ion-exchange chromatography and gel-filtration. Protein is sterile-filtered through 0.22 μm filter.
Species	Human
Source	CHO
Description	This gene encodes a secreted ligand of the glial cell line-derived neurotrophic factor (GDNF) subfamily and TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer. This protein signals through the RET receptor and GFR alpha 3 coreceptor, and supports the survival of a number of peripheral neuron populations and at least one population of dopaminergic CNS neurons. This protein has also been shown to promote tumor growth, metastasis, and drug resistance in mammary carcinoma.
Form	Homodimer
Molecular Mass	11.9 kDa
Endotoxin	Less than 1 EU/mg of protein as determined by LAL method

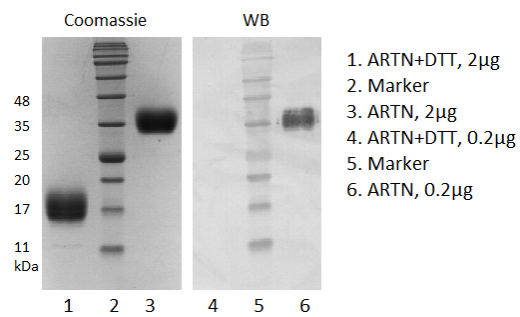
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Applications	Product is suitable for cell culture and in vivo testing. Protein is biologically active. Biological activity of purified artemin was tested in in vitro receptor-dependent cellular morphology change induction assay using U2OS cells expressing Ret and GFRα-3 receptor complex
Quality Control Test	SDS-PAGE and Western-Blot analysis
Storage	Store at -70 centigrade upon receipt. Recommended to aliquot into smaller quantities. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/mL. Concentration of the protein is determined by BCA Protein Analysis kit (Pierce). BSA was used as a standard
Storage Buffer	10 mM Na-citrate; 150 mM NaCl pH 4.5
Shipping	Shipped in dry-ice

GENE INFORMATION

Gene Name	ARTN artemin [Homo sapiens (human)]
Official Symbol	ARTN
Synonyms	ARTN; artemin; ART; EVN; NBN; ENOVIN; artemin; neublastin
Gene ID	9048
mRNA Refseq	NM_057090
Protein Refseq	NP_476431

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MIM	603886
UniProt ID	Q5T4W7
Coomassie-stained SDS-PAGE and Western Blot analysis on purified recombinant human Artemin.	 (A) SDS-PAGE analysis in reduced and non-reduced conditions. 2 g of recombinant human Artemin was loaded per lane. Lane 1 Artemin (reduced); Lane 2. Protein size marker; Lane 3. Artemin (non-reduced); (B) Western Blot alalysis of recombinant human Artemin. Anti-human Artemin monoclonal antibody colne 2D12 was used for testing. 2D12 antibody recognizes only native conformation, dimeric (non-reduced) Artemin. 0.2 g of recombinant Artremin were loaded per lane. Lane 1. Artemin (reduced); Lane 2. Protein size marker Blue; Lane 3. Artemin (non-reduced)

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