Artemin (ARTN) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Artemin (ARTN), Recombinant Protein
Full Product Name	Recombinant Human Artemin (ARTN)
Product Gene Name	ARTN recombinant protein
Product Synonym Gene Name	ARTN
Sequence	AGGPGSRARA AGARGCRLRS QLVPVRALGL GHRSDELVRF RFCSGSCRRA RSPHDLSLAS LLGAGALRPP PGSRPVSQPC CRPTRYEAVS FMDVNSTWRT VDRLSATACG CLG
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	23,616 Da
Sequence Positions	108-220, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	603886
3D Structure	ModBase 3D Structure for Q5T4W7
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ARTN recombinant protein	This protein is a member of the glial cell line-derived neurotophic factor (GDNF) family of ligands which are a group of ligands within the TGF-beta superfamily of signaling molecules. GDNFs are unique in having neurotrophic properties and have potential use for gene therapy in neurodegenerative disease. Artemin has been shown in culture to support the survival of a number of peripheral neuron populations and at least one population of dopaminergic CNS neurons. Its role in the PNS and CNS is further substantiated by its expression pattern in the proximity of these neurons. This protein is a ligand for the RET receptor and uses GFR-alpha 3 as a coreceptor. Multiple transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of ARTN recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ARTN purchase	MBS1329136 is a recombinant protein targeting ARTN. Also known as Recombinant Human Artemin (ARTN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARTN. It may not necessarily be applicable to this product.

NCBI GI #	209977029

NCBI GeneID	9048
NCBI Accession #	NP_001129687.1
UniProt Primary Accession #	Q5T4W7
UniProt Secondary Accession #	O95441; O96030; Q6P6A3; D3DPY1; D3DPY3
UniProt Related Accession #	Q5T4W7
GenBank Nucleotide #	NM_001136215.1
NCBI Official Full Name	artemin isoform 3
NCBI Official Synonym Full Names	artemin
NCBI Official Symbol	ARTN
NCBI Official Synonym Symbols	ART; EVN; NBN; ENOVIN
UniProt Protein Name	Artemin
UniProt Synonym Protein Names	Enovin; Neublastin
UniProt Gene Name	ARTN
UniProt Synonym Gene Names	EVN
NCBI Protein Information	artemin
NCBI Summary for ARTN	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. [provided by RefSeq, Aug 2016]
UniProt Comments for ARTN	Ligand for the GFR-alpha-3-RET receptor complex but can also activate the GFR-alpha-1-RET receptor complex. Supports the survival of sensory and sympathetic peripheral neurons in culture and also supports the survival of dopaminergic neurons of the ventral mid-brain. Strong attractant of gut hematopoietic cells thus promoting the formation Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue.
Research Articles on ARTN	**1.** The data suggest that ARTN and MMP-9 are involved in the occurrence, development, invasion and metastasis of EC, and play a synergistic role in the development of EC and lymphatic metastasis.
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