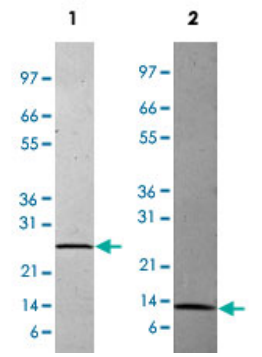
Bioactive

ARTN (Human) Recombinant Protein

Catalog # P4372 Size 20 ug

Applications



Lane 1: non-reducing conditions
Lane 2: reducing conditions

Specification

Product Description	Human ARTN (Q5T4W7) recombinant protein expressed in *Escherichia coli*.
Sequence	AGGPGSRARAAGARGCRLRSQLVPVRALGLGHRSDELVRFRFCSGSCRRARSPHDLSLASLLG AGALRPPPGSRPVSQPCCRPTRYEAVSFMDVNSTWRTVDRLSATACGCLG
Host	Escherichia coli
Theoretical MW (kDa)	24.2
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Endotoxin Level	< 0.1 EU/ug
Activity	The activity is determined by the dose-dependant proliferation of the SH-SY5Y cell line and is typicall y 4-8 ng/mL. The activity can also determined by the ability to promote survival and neurite outgrowth.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
Storage Buffer	Lyophilized from 10 mM sodium citrate, 25 mM NaCl, pH 4.5

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Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Functional Study
- SDS-PAGE
- SDS-PAGE

Gene Info — ARTN

Entrez GeneID	9048
Protein Accession#	Q5T4W7
Gene Name	ARTN
Gene Alias	ENOVIN, EVN, NBN
Gene Description	artemin
Omim ID	603886
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene 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. [provided by RefSeq
Other Designations	OTTHUMP00000009173|OTTHUMP00000009174|neublastin|neurotrophic factor|neurotrophic factor artemin

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Disease

- Genetic Predisposition to Disease
- Hirschsprung Disease

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