Bioactive

ARTN (Human) Recombinant Protein,homodimer

Catalog # P8444 Size 20 ug

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
Purity	> 98% by HPLC and SDS PAGE
Activity	The activity is determined by the dose-dependent proliferation of the SH-SY5Y cell line and is typicall y 4-8 ng/mL. The activity can also be determined by the ability to promote survival and neurite outgro wth.
Storage Buffer	Lyophilized from 10mM sodium citrate pH 4.5 and 25mM sodium chloride.
Storage Instruction	Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Applications

- Functional Study
- SDS-PAGE

Gene Info — ARTN

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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

Disease

- Genetic Predisposition to Disease
- Hirschsprung Disease

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