



[Go to Product page](#)

Datasheet for ABIN7319693

ARTN Protein

Overview

Quantity:	50 µg
Target:	ARTN
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purpose:	Recombinant Human Artemin Protein
Sequence:	Ala108-Gly220
Characteristics:	Recombinant Human Artemin is produced by our E.coli expression system and the target gene encoding Ala108-Gly220 is expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	ARTN
Alternative Name:	Artemin (ARTN Products)
Background:	Background: Human Artemin is a GDNF family ligand that is distantly related to the TGF-β superfamily of molecules. It is synthesized as a preproprotein, and contains a variable length pre-, or signal sequence, plus a 68 amino acid (aa) proregion and a 113 aa mature segment. Following synthesis and proteolytic processing, mature ARTN is secreted as a presumably

Target Details

glycosylated, 28 kDa disulfide-linked homodimer that contains three intrachain disulfide bonds and the typical TGF- β signature cysteine-knot motif. In the mature region, human ARTN is 89 % and 88 % aa identical to rat and mouse ARTN, respectively. Human ARTN is active on rodent cells. The receptor for ARTN has been identified as the ligand binding subunit GFR α -3 plus the signal transducing subunit, RET. The GFR α -1/RET receptor complex has also been suggested to be a ligand binding unit for ARTN. ARTN is known to be a chemoattractant for sympathetic neuron axons innervating the developing cardiovascular system. It also promotes sensory neuron survival and likely plays a role in the development of the peripheral nervous system. Finally, it has been reported to reverse neuropathic pain due to nerve injury, and to help resolve morphological changes associated with nerve damage.

Synonym: Artemin, ARTN, Enovin, Neublastin, EVN

Molecular Weight: 12.1 kDa

UniProt: [Q5T4W7](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 μ m filtered solution of 4 mM HCl.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.