

ARTN

Recombinant Human Artemin

Catalog No.	CRA001A CRA001B CRA001C CRA001D	Quantity:	5 µg 20 µg 1.0 mg 100 µg
Alternate Names:	ENOVIN, EVN, NBN, neublastin, neurotrophic factor, neurotrophic factor artemin		
Description:	Artemin is a novel member of the glial cell line-derived neurotrophic factor (GDNF) ligand family. Current evidence suggests that Artemin signals through the receptor complex, GFRalpha3-RET, to influence neuron survival <i>in vitro</i> and <i>in vivo</i> . Recombinant human Artemin is a non-glycosylated, disulfide-linked homodimer, containing two 113 amino acid chains.		
Physical Appearance:	Sterile filtered white lyophilized (freeze-dried) powder.		
Gene ID:	9048		
Protein Accession No:	Q5T4W7		
Source:	<i>E. coli</i>		
Molecular Weight:	24.2 kDa		
Formulation:	Recombinant Artemin is lyophilized with 10 mM sodium citrate pH 4.5 and 25 mM NaCl.		
Purity:	≥98.0% as determined by Reducing and Non-reducing SDS-PAGE, HPLC		
Endotoxin Level:	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.		
Biological Activity:	The activity is determined by the dose-dependant proliferation of the SH-SY5Y cell line and is typically 4-8 ng/mL. The activity can also be determined by its ability to promote survival and neurite outgrowth.		
Amino Acid Sequence:	AGGPGSRARA AGARGCRLRS QLVPVRALGL GHRSEDLVRF RFCSGSCRRA RSPHDLSLAS LLGAGALRPP PGSRPVSQPC CRPTRYEAVS FMDVNSTWRT VDRLSATACG CLG		
Reconstitution:	Centrifuge vial prior to opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.		
Storage & Stability:	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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