

## Active Recombinant Mouse Artemin

**Cat. No.** Artn-578M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Artnprotein was expressed in E. coli. Ala112-Gly224.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	112-224 a.a.
<b>Description</b>	Artn is a member of the Glia Cell Derived Neurotrophic factor (GDNF) family ligands, which include GDNF, Persephin, Artn, and Neurturin. GDNF family ligands are distant members of the Transforming Growth Factor $\beta$ (TGF $\beta$ ) superfamily. Similar to other TGF $\beta$ family proteins, Artn is synthesized as a large precursor protein that is cleaved at the dibasic cleavage site (RXXR) to release the carboxy terminal domain.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
<b>N-terminalSequence</b>	Ala112
<b>Molecular Weight</b>	12 kDa (monomer)
<b>Activity</b>	Measured in a cell proliferation assay using SHSY5Y human neuroblastoma cells. The ED <sub>50</sub> for this effect is typically 2-8 ng/mL. Measured by its binding ability in a functional ELISA. Immobilized recombinant human GFR $\alpha$ 3 Fc Chimera at 2 $\mu$ g/mL (100 $\mu$ L/well) can bind Recombinant Mouse Artemin with a linear range of 0.08-10 ng/mL.

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<b>Endotoxin Level</b>	< 1.0EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	> 97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 µg/mL in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Artn artemin [ Mus musculus]</a>
<b>Official Symbol</b>	<a href="#">Artn</a>
<b>Synonyms</b>	Artn; artemin; neublastin
<b>Gene ID</b>	<a href="#">11876</a>
<b>mRNA Refseq</b>	<a href="#">NM_009711</a>
<b>Protein Refseq</b>	<a href="#">NP_033841</a>
<b>Chromosome Location</b>	4; 4 D1
<b>Pathway</b>	Axon guidance; Developmental Biology; NCAM signaling for neurite out-growth; NCAM1 interactions

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**Function**

glial cellline-derived neurotrophic factor receptor binding; growth factor activity;protein binding; receptor binding

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