

Active Recombinant Mouse Artn

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

SPECIFICATION

Product Overview	Recombinant Mouse Artn protein was expressed in E. coli. Ala112-Gly224.
Species	Mouse
Source	E.coli
Protein Length	112-224 a.a.
Description	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 β (TGF β) superfamily. Similar to other TGF β 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.
Form	Lyophilized from a 0.2 μ m filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
N-terminal Sequence	Ala112
Molecular Weight	12 kDa (monomer)
Activity	Measured in a cell proliferation assay using SHSY5Y human neuroblastoma cells. The ED ₅₀ for this effect is typically 2-8 ng/mL. Measured by its binding ability in a functional ELISA. Immobilized recombinant human GFR α 3 Fc Chimera at 2 μ g/mL (100 μ L/well) can bind Recombinant Mouse Artn with a linear range of 0.08-10 ng/mL.

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Endotoxin Level	< 1.0EU per 1 µg of the protein by the LAL method.
Purity	> 97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/mL in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin.
Storage	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

Gene Name	Artn artemin [Mus musculus]
Official Symbol	Artn
Synonyms	Artn; artemin; neublastin
Gene ID	11876
mRNA Refseq	NM_009711
Protein Refseq	NP_033841
Chromosome Location	4; 4 D1
Pathway	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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