

TECHNICAL DATA SHEET

Recombinant Mouse Artemin (Carrier-free)

Catalog Number: 21-9216

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Mouse Artemin (Carrier-free)

DESCRIPTION

Artemin is a member of the Glia Cell-Derived Neurotrophic factor (GDNF) family ligands that includes GDNF, Neurturin, Persephin, and Artemin. Biologically active Artemin is a dimer consisting of two identical disulfide linked monomers that each contain a cysteine-knot structure. Mature mouse Artemin shares 88.5% amino acid sequence homology with human Artemin. Artemin mediates signaling via a multicomponent receptor composed of RET (receptor tyrosine kinase) and one of the four GFR α (α 1- α 4) receptors with the preferred receptor being GFR α 3-RET. Artemin supports the survival of sensory and sympathetic peripheral neurons and also supports survival of dopaminergic midbrain neurons. Recombinant Mouse Artemin is homodimer of two 113 amino acid subunits with a calculated molecular weight of 24.2 kDa.

MOLECULAR MASS

24.2 kDa

AMINO ACID SEQUENCE

AGTRSSRART TDARGCRLRS QLVPVSALGL GHSSDELIRF RFCSGSCRRA RSQHDLSLAS LLGAGALRSP PGRSPISQPC CRPTRYEAVS
 FMDVNSTWRT VDHLSATACG CLG

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

97 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/ μ g of protein (<1 EU/ μ g).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

N/A

BIOACTIVITY

Determined by the dose-dependent stimulation of the proliferation of SH-SY5Y cells. The expected ED50 for this effect is 0.1-0.5 μ g/ml.

RESEARCH AREAS

Cell Culture, Immune System, Neurobiology, Stem Cells & Differentiation, TGF- β Superfamily

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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