

TECHNICAL DATA SHEET

# Recombinant Human Artemin (Carrier-free)

Catalog Number: 21-7096

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

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Recombinant Human Artemin (Carrier-free)

#### DESCRIPTION

Artemin (ARTN) is a secreted disulfide-linked homodimer that belongs to the GDNF family of ligands. It is known to be expressed by embryonic smooth muscle cells and Schwann cells. Artemin promotes sensory neuron survival and likely plays a role in the development of the peripheral nervous system. It signals through the receptor tyrosine kinase (RET)/GFR-alpha 3 receptor complex.

#### MOLECULAR MASS

Recombinant human Artemin consists of 2 identical subunits that are 113 amino acids each, resulting in a 24.2 kDa disulfide-linked homodimer.

#### AMINO ACID SEQUENCE

AGGPGSRARA AGARGCRLRS QLVPVRALGL GHRSEDLVRF RFCSGSCRRA RSPHDLASLLS LLGAGALRPP PGRSRVSPQC  
CRPTRYEAVS FMDVNSTWRT VDRLSATACG CLG

#### SOURCE

E. coli

#### APPLICATIONS

Bioassay

#### PURITY

98 %

#### STORAGE

-20°C

#### PROTEIN CONTENT

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

#### ENDOTOXIN LEVEL

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

#### AUTHENTICITY

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

#### CROSS REACTIVITY

Mouse, Rat

#### BIOACTIVITY

An assay designed to measure the ability to promote neurite outgrowth and survival is used to determine activity.

#### RESEARCH AREAS

Neurobiology, TGF-beta Superfamily

#### RECONSTITUTION

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

#### REFERENCES

Baloh RH, Tansey MG, Lampe PA, Fahrner TJ, Enomoto H, Simburger KS, Leitner ML, Araki T, Johnson EM Jr and Milbrandt J. 1998. *Neuron*. 21(6): 1291-1302. Rosenbald C, Gronborg M, Hansen C, Blom N, Meyer M, Johansen J, Dago L, Kirik D, Patel UA, Lundberg C, Trono D, Bjorklund A and Johansen TE. 2000. *Mol Cell Neurosci*. 15(2): 199-214. Honma Y, Araki T, Gianino S, Bruce A, Heuckeroth R, Johnson E and Milbrandt J. 2002. *Neuron*. 35(2): 267-282.

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