

TECHNICAL DATA SHEET

Recombinant Mouse Cardiotrophin-1 (Carrier-free)

Catalog Number: 21-7010

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Mouse Cardiotrophin-1 (Carrier-free)

DESCRIPTION

Cardiotrophin-1 (CT-1) is a member of the IL-6 family of cytokines. CT-1 has hepertrophic and cardioprotective properties and signals through the leukemia inhibitory factor receptor (LIF) and the gp130 receptor subunit.

MOLECULAR MASS

Recombinant murine Cardiotrophin-1 is a 21.3 kDa protein consisting of 202 amino acid residues.

AMINO ACID SEQUENCE

SQREGSLED HQT DSSISFL PHLEAKIRQT HNLARLLTKY AEQLLEEYVQ QQGEPFGLPG FSP PRLPLAG LSGPAPSHAG LPV SERLRQD
 AAALSVPAL LDAVRRRQAE LNPRAPRLLR SLEDAARQVR ALGAAVETVL AALGAAARGP GPEPVTVATL FTANSTAGIF
 SAKVLGFHVC GLYGEWVSRT EGD LGQLVPG GVA

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

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

Human

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent proliferation of TF-1 cells was ≤ 1.0 ng/ml, corresponding to a specific activity of ≥ 1 x 10⁶ units/mg.

RESEARCH AREAS

Angiogenesis/Cardiovascular; Bone, Skeletal, Cartilage; Neurobiology

RECONSTITUTION

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

REFERENCES

Latchman DS. 2000. Pharmacol Ther. 85(1): 29-37. Silver JS and Hunter CA. 2010. J Leukoc Biol. 88(6): 1145-1156.

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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