

TECHNICAL DATA SHEET

# Recombinant Human Cardiotrophin-1 (Carrier-free)

Catalog Number: 21-7009

**RPx-Pro™ Recombinant Protein**  
PRODUCT INFORMATION

**CONTENTS**

Recombinant Human Cardiotrophin-1 (Carrier-free)

**DESCRIPTION**

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

**MOLECULAR MASS**

Recombinant human CT-1 is a 21.1 kDa protein consisting of 200 amino acid residues.

**AMINO ACID SEQUENCE**

SRREGSLED PQT DSSVSL LPHLEAKIRQT HSLAHL LTKY AEQL LQEYVQ LQGDPFGLPS FSP PRLPVAG LSAPAPSHAG LPVHERLRLLD  
AAALAALPPL L DAVCRRQAE LNPRAPRLLR RLEDAARQAR ALGAAVEALL AALGAANRGP RAEPPAATAS AASATGVFPA  
KVLGLRVCGL YREWLSRTEG DLGQLLP GGS A

**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**

Rat

**BIOACTIVITY**

The ED<sub>50</sub> as determined by the dose-dependent proliferation of TF-1 cells was ≤ 1.0 ng/ml, corresponding to a specific activity of ≥ 1 x 10<sup>6</sup> 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.

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