

## Recombinant Human Cardiotrophin-1

Catalog No: #AP60463



Package Size: #AP60463-1 10ug #AP60463-2 100ug #AP60463-3 500ug

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## Description

Product Name	Recombinant Human Cardiotrophin-1
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Uniprot	Q16619
GeneID	1489
Calculated MW	Approximately 21.2 kDa, a single non-glycosylated polypeptide chain containing 201 amino acids.
Target Sequence	MSRREGSLED PQTSSVSL LPHLEAKIRQT HSLAHL LTKY AEQL LQEYVQ LQGDPFGLPS FSPRRLPVAG LSAPAPSHAG LPVHERLR LRD AAALAALPPL LDAVCRRQAE LNPRA PRLLR RLEDAARQAR ALGAAVEALL AALGAANRGP RAEPPAATAS AASATGVFPA KVLGLRVCGL YREWLSRTEG DLGQLLPGGS A
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 30 % Acetonitrile and 0.1 % TFA.
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.

## Background

Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, leukemia inhibitory factor (LIF), oncostatin M (OSM), and ciliary neurotrophic factor (CNTF)[Pennica, 1996 #1320]. CT-1 is a pleiotropic cytokine which is expressed in various tissues including the adult heart, skeletal muscle, ovary, colon, prostate and fetal lung. Studies showed CT-1 which induces cardiac myocyte hypertrophy in vitro can bind to and activate the ILST/gp130 receptor. Human CT-1 encodes a 201 amino acid (a.a.) residue protein that lacks a hydrophobic signal peptide and it shares 78 % a.a. and 80 % a.a. sequence identity with murine and rat CT-1.

Note: This product is for in vitro research use only