Ctf1
Recombinant Mouse Cardiotrophin-1

Catalog No.	CRC701A	**Quantity:**	2 µg
	CRC701B		10 µg
	CRC701C		1 mg

Alternate Names: CT-1, cardiotrophin-1

Description: Cardiotrophin1 (CT1) 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). CT-1 is a pleiotropic cytokine which is expressed in various tissues including the adult heart, skeletal muscle, ovary, colon, prostate and fetal lung. In addition, CT-1 which induces cardiac myocyte hypertrophy in vitro can bind to and activate the ILST/gp130 receptor. Mouse CT1 encodes a 203 amino acid (a.a.) residue protein that lacks a hydrophobic signal peptide. Human and mouse CT1 share 80 % a.a. sequence identity and exhibit cross-species activity.

Gene ID: 13019

Source: *E. coli*

Molecular Weight: Approximately 18.2 kDa, a single non-glycosylated polypeptide chain containing158 amino acids.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris + 300 mM NaC +, 3 mM beta-mercaptoethanol, pH 8.5.

Purity: > 95 % by SDS-PAGE and HPLC analyses.

Endotoxin Level: Less than 1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} determined by a cell proliferation assay using human TF-1 cells is less than 0.5 ng/ml,

Specific Activity: > 2.0×10^6 IU/mg.

Amino Acid Sequence: LRPGDCEVCI SYLGRFYQDL KDRDVTFSPA TIENELIKFC REARGKENRL CYYIGATDDA ATKIINEVSK PLAHHIPVEK ICEKLKKKDS QICELKYDKQ IDLSTVDLKK LRVKELKKIL DDWGETCKGC AEKSDYIRKI NELMPKYAPK AASARTDL

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

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