

**Recombinant Murine Cardiotrophin-1**  
**Catalog # PBG10054****Specification**

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**Recombinant Murine Cardiotrophin-1 - Product Information****Recombinant Murine Cardiotrophin-1 - Additional Information****Description**

CT-1 is a member of the IL-6 family of cytokines which also includes LIF, CNTF, OSM (Oncostatin M), IL-11, IL-6 and possibly NNT-1/BCSF-3. CT-1 is a pleiotropic cytokine which is expressed in various tissues including the adult heart, skeletal muscle, ovary, colon, prostate and fetal lung and signals through the LIF receptor and the gp130 receptor subunit. CT-1 has the ability to induce cardiac myocyte hypertrophy, and enhances the survival of cardiomyocyte and different neuronal populations. Recombinant murine Cardiotrophin-1 is a 21.3 kDa protein consisting of 202 amino acid residues.

**Biological Activity**

The ED<sub>50</sub> as determined by the dose-dependent proliferation of TF-1 cells was  $\leq 1.0$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^6$  units/mg.

**Authenticity**

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

**Endotoxin**

Endotoxin level is  $<0.1$  ng/  $\mu$ g of protein ( $<1$ EU/  $\mu$ g).

**Protein Content**

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

**Storage**

-20°C

**Precautions**

Recombinant Murine Cardiotrophin-1 is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Murine Cardiotrophin-1 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

## **Recombinant Murine Cardiotrophin-1 - Images**