

RELIATech GmbH
Lindenerstr. 15
38300 Wolfenbüttel
Germany

Tel.: +49 5331 8586 987
Fax.: +49 5331 8586 989
Email: info@reliatech.de
web: www.reliatech.de

Recombinant Murine Cardiotrophin-1

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.

Source:	E. coli
Molecular Weight:	21.3 kDa
Purity:	> 98% by SDS-PAGE and HPLC
Endotoxin level:	< 0.1 ng per µg of Cardiotrophin-1
Stabilizer:	none
Formulation:	lyophilized

Biological Activity: 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 10⁶units/mg.

Reconstitution: The murine Cardiotrophin-1 should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

Stability: The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted murine Cardiotrophin-1 should be stored in working aliquots at -20°C. **Avoid repeated freeze-thaw cycles.**

Usage: Murine Cardiotrophin-1 offered for research use. Not for drug use. **Not for human use.**

Catalogue number: M10-052

Size: 10 µg

****please note: always centrifuge product before opening Vial.****