

#### Cardiotrophin-1, Murine recombinant protein

CT-1

Catalog # PBV10756r

#### **Specification**

#### Cardiotrophin-1, Murine recombinant protein - Product info

Primary Accession <u>Q60753</u>

Calculated MW 21.3 kDa KDa

## Cardiotrophin-1, Murine recombinant protein - Additional Info

Gene ID 13019
Gene Symbol CT1

**Other Names** 

CT-1

Gene Source Mouse Source E.coli

Assay&Purity SDS-PAGE; ≥98%

Assay2&Purity2 HPLC;
Recombinant Yes

Sequence SQREGSLEDH QTDSSISFLP HLEAKIRQTH

NLARLLTKYA EQLLEEYVQQ QGEPFGLPGF SPPRLPLAGL SGPAPSHAGL PVSERLRQDA AALSVLPALL DAVRRRQAEL NPRAPRLLRS LEDAARQVRA LGAAVETVLA ALGAAARGPG PEPVTVATLF TANSTAGIFS AKVLGFHVCG

LYGEWVSRTE GDLGQLVPGG VA

Target/Specificity Cardiotrophin-1

#### **Application Notes**

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

#### **Format**

Lyophilized powder

## Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 0.5 mg/ml in 5 mM Tris, pH 8.0

## Cardiotrophin-1, Murine recombinant protein - Protocols

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

• Western Blot





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- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# Cardiotrophin-1, Murine recombinant protein - Images

## Cardiotrophin-1, Murine recombinant protein - Background

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 NT-1/ BSF-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. Biologically active human CT-1 is synthesized as a 201 amino acid polypeptide lacking a hydrophobic N-terminal secretion signal sequence. Recombinant murine Cardiotrophin-1 is a 21.3 kDa protein consisting of 202 amino acid residues.

### Cardiotrophin-1, Murine recombinant protein - References

Pennica D., et al. Proc. Natl. Acad. Sci. U.S.A. 92:1142-1146(1995).