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Cardiotrophin-1, Murine recombinant protein

CT-1

Catalog # PBV10756r

Specification

Cardiotrophin-1, Murine recombinant protein - Product info

Primary Accession	Q60753
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

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- 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).