

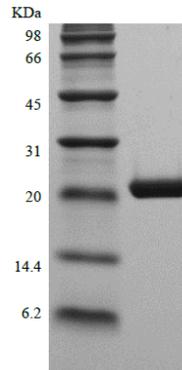
Ctf1

Recombinant Mouse Cardiotrophin-1

Catalog No.	CRC701A CRC701B CRC701C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Cardiotrophin-1, CT-1		
Description:	<p>Cardiotrophin-1 (CT-1) is a member of the Leukemia Inhibitory (LIF)/ Ciliary Neurotrophic Factor (CNTF)/ Oncostatin M (OSM)/ Interleukin-6 (IL6)/ Interleukin-11 (IL11) family of cytokines. It affects cells through interaction with the gp130 (ILST) receptor subunit and stimulates the Janus kinase/signal transducers and activators of transcription (JAK/STAT) pathway to transduce hypertrophic and cytoprotective signals in cardiac myocytes.</p> <p>CT 1 has also a neurotrophic function. CTF1 deficiency causes increased motoneuron cell death in spinal cord and brainstem nuclei of mice during a period between embryonic day 14 and the first postnatal week. Moreover, CT-1 is a hepatocyte survival factor that efficiently reduces hepatocellular damage in animal models of acute liver injury. Cardiotrophin 1 expression is augmented after hypoxic stimulation and it can protect cardiac cells when added either prior to simulated ischaemia or at the time of reoxygenation following simulated ischaemia. Cardiotrophin 1 can induce expression of the protective heat shock proteins (hsps) in cardiac cells.</p>		
UniProt ID:	Q60753		
Source:	<i>E. coli</i>		
Molecular Weight:	21.3 kDa (202 aa) monomer		
Formulation:	Lyophilized from sterile filtered PBS, pH 7.4		
Purity:	> 98% by SDS-PAGE		
Biological Activity:	ED ₅₀ <1.0 ng/ml, determined by a cell proliferation assay using human TF-1 cells.		
Specific Activity:	> 1.0 x 10 ⁶ IU/mg		
Amino Acid Sequence:	SQREGSLEDH QTSSISFLP HLEAKIRQTH NLARLLTKYA EQLLEEYVQQ QGEPFGLPGF SPPRLPLAGL SGPAPSHAGL PVSERLRQDA AALSVPALL DAVRRRQAEL NPRAPRLLRS LEDAARQVRA LGAAVETVLA ALGAAARGPG PEPVTVATLF TANSTAGIFS AKVLGFHVCG LYGEWVS RTE GDLGQLVPGG VA		
Reconstitution:	Centrifuge the vial prior to opening. Reconstitute in sterile 4 mM HCl to 0.1-0.5 mg/mL. The solution can be further diluted to other aqueous buffers.		
Storage & Stability:	Store lyophilized protein at -20 °C to -80 °C for up to 1 year. Upon reconstitution store at 2-8 °C for up to one week, or long term in aliquots -80 °C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long-term storage. Avoid repeated freeze-thaw cycles.		



SDS-PAGE for Murine CT-1



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