

Active Recombinant Mouse Ctf1 Protein (202 aa)

Cat. No. Ctf1-191C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Cardiotrophin-1 produced in HEK293 cells is a polypeptide chain containing 202 amino acids. A fully biologically active molecule, rmCT-1 has a molecular mass of 22-27 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Mouse
Source	HEK293
ProteinLength	202
Description	Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, leukemia inhibitory factor (LIF), oncostatin M (OSM), and ciliary neurotrophic factor (CNTF). CT-1 is associated with the pathophysiology of several types of heart disease including hypertension, myocardial infarction, valvular heart disease, and congestive heart failure. The protein exerts its cellular effects by interacting with the glycoprotein 130 (gp130)/leukemia inhibitory factor receptor beta (LIFR) heterodimer. CT-1 activates phosphatidylinositol 3-kinase (PI-3 kinase) in cardiac myocytes and enhances transcription factor NF- κ B DNA -binding activities. CT-1 is highly expressed in the heart, skeletal muscle, prostate and ovary and to lower levels in lung, kidney, pancreas, thymus, testis and small intestine.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC50 value of Mouse Cardiotrophin-1 determined by the dose-dependent

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	proliferation of TF-1 cells was ≤ 1.25 ng/mL, corresponding to a specific activity of ≥ 0.86 units/mg.
Molecular Mass	22~27 kDa, observed by reducing SDS-PAGE.
AA Sequence	SQREGSLEDHQTDSSISFLPHLEAKIRQTHNLARLLTKYAEQLLEEYVQQQGEPFGL PGFSPRLPLAGLSGPAPSHAGLPVSELRQDAAALSVLPALLDAVRRRQAELNPR APRLLRSLEDAARQVRALGAAVETVLAALGAAARGPGPEPVTATLFTANSTAGIFS AKVLGFHVCGLYGEWVSRTEDLGQLVPGGVA
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Mouse Cardiotrophin-1 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Mouse Cardiotrophin-1 should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Ctf1 cardiotrophin 1 [<i>Mus musculus</i>]
Official Symbol	Ctf1
Synonyms	CTF1; cardiotrophin 1; cardiotrophin-1; CT-1;
Gene ID	13019

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mRNA Refseq	NM_007795
Protein Refseq	NP_031821
UniProt ID	A0A6P5Q4E7

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