

Active Recombinant Mouse Cardiotrophin 1

Cat. No. Ctf1-342M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ctf1 was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Mouse
Source	Mouse
Description	CT-1 is a member of the IL6 family of cytokines which also includes LIF, CNTF, OSM (Oncostatin M), IL11, IL6 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.
Form	Supplied as a lyophilized powder.
Purity	>98% pure by SDS PAGE and HPLC
Sequence	Region of Cardiotrophin 1 protein corresponding to amino acids SQREGSLEDH QTDSSISFLP HLEAKIRQTH NLARLLTKYA EQLLEEVQQ QGEPFGLPGF SPPRLPLAGL SGPAPSHAGL PVSERLRQDA AALSVPALL DAVRRRQAEL NPRAPRLLRS LEDAARQVRA LGAAVETVLA ALGAAARGPG PEPVTVATLF TANSTAGIFS AKVLG
Molecular Mass	21.3 kDa

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Applications	Numerous applications are possible with this product and should be tested by the end user under their own laboratory conditions
Endotoxin Levels	Endotoxin level is less than 0.1 ng per ug (1 EU/ug).
Bioactivity	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 10 ⁶ units/mg.
Storage	Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	Ctf1 cardiotrophin 1 [Mus musculus]
Official Symbol	Ctf1
Synonyms	Ctf1; CT-1; cardiotrophin-1
Gene ID	13019
mRNA Refseq	NM_007795
Protein Refseq	NP_031821
UniProt ID	Q60753
Chromosome Location	7; 7 F3
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; MicroRNAs in cardiomyocyte hypertrophy

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Function

cytokine activity; leukemia inhibitory factor receptor binding

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