



Recombinant Mouse Cardiotrophin-1

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-052S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	13019
Synonyms:	Ctf1; CT-1

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 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. Recombinant murine Cardiotrophin-1 is a 21.3 kDa protein consisting of 202 amino acid residues.

Sequence

SQREGSLEDH QTDSSISFLP HLEAKIRQTH NLARLLTKYA
 EQLLLEYVQQ QGEPFGLPGF SPRLPLAGL SGPAPSHAGL
 PVSERLRQDA AALSVPALL DAVRRRQAEI NPRAPRLRS
 LEDAARQVRA LGAAVETVLA ALGAAARGPG PEPVTVATLF
 TANSTAGIFS AKVLGFHVCG LYGEVVSRTG GDLGQLVPPG VA

Database References

Protein RefSeq:	NP_031821
Uniprot ID:	Q60753
mRNA RefSeq:	NM_007795

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	202
MW:	21.3 kDa

Biological Activity: The ED50 as determined by the dose-dependent proliferation of TF-1 cells was ≤ 1.0 ng/ml, corresponding to a specific activity of $\geq 1 \times 10^6$ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!