

Recombinant Mouse Cardiotrophin-1 (Mouse CT-1)

Product Information

Product Name	Cat#	Size
Recombinant Mouse Cardiotrophin-1 (Mouse CT-1)	92590ES10	10 μg
	92590ES60	100 μg
	92590ES76	500 μg

Product Description

Cardiotrophin1 (CT1) 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 a pleiotropic cytokine which is expressed in various tissues including the adult heart, skeletal muscle, ovary, colon, prostate and fetal lung. Studies showed CT-1 which induces cardiac myocyte hypertrophy in vitro can bind to and activate the ILST/gp130 receptor. Rat CT1 encodes a 203 amino acid (a.a.) residue protein that lacks a hydrophobic signal peptide and it shares 94% a.a. and 79% a.a. sequence identity with human and murine CT-1.

Product Properties

Synonyms	CT-1CT1; CTF1	
Accession	Q60753	
GeneID	13019	
Source	E.coli-derived Mouse CT-1, Met1-Ala203, with an N-terminal Met.	
Molecular Weight	Approximately 21.5 kDa.	
AA Sequence	MSQREGSLED HQTDSSISFL PHLEAKIRQT HNLARLLTKY AEQLLEEYVQ QQGEPFGLPG FSPPRLPLAG LSGPAPSHAG LPVSERLROD AAALSVLPAL LDAVRRQAE LNPRAPRLLR	
	SLEDAARQVR ALGAAVETVL AALGAAARGP GPEPVTVATL FTANSTAGIF SAKVLGFHVC GLYGEWVSRT EGDLGQLVPG GVA	
Tag	None	
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	
Purity	> 95% by SDS-PAGE and HPLC analyses.	
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 0.5 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^6$ IU/mg. Fully biologically active when compared to standard.	
Endotoxin	Less than 1 EU/µg of rMuCT-1 as determined by LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.5.	
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.	
	Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0	
	mg/mL. Stock solutions should be apportioned into working aliquots and stored at \leq -20°C. Further	
	dilutions should be made in appropriate buffered solutions.	

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

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Cautions

- 1. Avoid repeated freeze-thaw cycles.
- 2. For your safety and health, please wear lab coats and disposable gloves for operation.
- 3. For research use only!

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