

Recombinant Murine Cardiotrophin-1 (rMuCT-1)

PrimeGene Technical Data Sheet

Catalog Number: 621-30

Source: Escherichia coli.

Molecular Weight: Approximately 21.5 kDa, a single non-glycosylated polypeptide chain containing 203 amino acids.

Quantity: $2\mu g/10\mu g/1000\mu g$

AA Sequence: MSQREGSLED HQTDSSISFL PHLEAKIRQT HNLARLLTKY AEQLLEEYVQ QQGEPFGLPG

FSPPRLPLAG LSGPAPSHAG LPVSERLRQD AAALSVLPAL LDAVRRRQAE LNPRAPRLLR SLEDAARQVR ALGAAVETVL AALGAAARGP GPEPVTVATL FTANSTAGIF SAKVLGFHVC

GLYGEWVSRT EGDLGOLVPG GVA

Purity: > 95 % by SDS-PAGE and HPLC analyses.

Biological Activity: Fully biologically active when compared to standard. 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.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 300 mM NaCl, pH 8.5.

Endotoxin: Less than 1 EU/µg of rMuCT-1 as determined by LAL method.

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: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature

recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

• 12 months from date of receipt, -20 to -70 °C as supplied.

1 month, 2 to 8 °C under sterile conditions after reconstitution.

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Usage: This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further

evaluation purposes. NOT FOR HUMAN USE.

Murine Cardiotrophin-1

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 a pleiotropic cytokine which is expressed in various tissues including the adult heart, skeletal muscle, ovary, colon, prostate and fetal lung. In addition, CT-1 which induces cardiac myocyte hypertrophy in vitro can bind to and activate the ILST/gp130 receptor. Murine CT-1 encodes a 203 amino acid (a.a.) residue protein that lacks a hydrophobic signal peptide. Human and murine CT-1 share 80 % a.a. sequence identity and exhibit cross-species activity.

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