

Product Datasheet

RecombinantCT-1,Mouse (orb1494652)

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. 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 at GenScript.
Endotoxins	< 0.2 EU/ μ g, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant Mouse Cardiotrophin-1 remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, Mouse Cardiotrophin-1 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH ₂ O or PBS at 100 μ g/ml.
Protein Sequence	SQREGSLEDHQTDSSISFLPHLEAKIRQTHNLARLLTKYAEQLLEEYVQQGEPFGLPGFSP PRLPLAGLSGPAPSHAGL PVSERLRQDAAALSVLPALLDAVRRRQAELNPRAPRLLRSLEDAARQVRALGAAVETVLAA LGAAARGPGPEPVTVALTF TANSTAGIFSAKVLGFHVCGLYGEWVSRTEGDLGQLVPPGVA

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Purity	> 95% as analyzed by SDS-PAGE.
Source	HEK 293
MW	22~27 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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