

32-20051: Recombinant Murine Cardiotrophin-1(Discontinued)

Reactivity : Human, mouse, rat

Alternative Name : CT-1

Description

Source: E.coli 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/BSF-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.

Product Info

Amount : 2 µg / 10 µg

Purification : Purity: $\geq 98\%$ by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : SQREGSLEDH QTDSSISFLP HLEAKIRQTH NLARLLTKYA EQLLEEYVQQ QGEPFGLPGF SPPRLPLAGL
SGPAPSHAGL PVSERLRQDA AALSVLPALL DAVRRRQAEL NPRAPRLLRS LEDAARQVRA LGAAVETVLA
ALGAAARGPG PEPVTATLF TANSTAGIFS AKVLGFHVCG LYGEWVSRTE GDLGQLVPGG VA

Application Note

The ED_{50} 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.