

## 32-20050: Recombinant Human 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/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. Biologically active human CT-1 is synthesized as a 201 amino acid polypeptide lacking a hydrophobic N-terminal secretion signal sequence. Recombinant Human CT-1 is a 21.1 kDa protein consisting of 200 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 :** SRREGSLEDP QTDSSVSLLP HLEAKIRQTH SLAHLTKYA EQLLQEYVQL QGDPFGLPSF SPPRLPVAGL  
SAPAPSHAGL PVHERLRLLDA AALAALPPLL DAVCRRQAEI NPRAPRLLRR LEDAARQARA LGAAVEALLA  
ALGAANRGPR AEPPAATASA ASATGVFPAK VLGLRVCGLY REWLSRTEGD LGQLLPGGSA

### Application Note

The  $ED_{50}$  as determined by the dose-dependent proliferation of TF-1 cells was  $\leq 1.0$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^6$  units/mg.