

## Cardiotrophin-1 (CT-1), Human

**Cat.no.** PK0100

**Product size:** 10ug 50ug 1mg

**Source:** CHO

**Species:** Human

**Biological Activity:** ED50 < 0.4 ng/ml, measured in a cell proliferation assay using TF-1 cells.

**Molecular Weight:** 24~26kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

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

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant Human Cardiotrophin-1(CT-1) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Cardiotrophin-1(CT-1) should be stable up to 1 week at 4°C or up to 2 months at -20°C.

**Description:** Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, LIF, CNTF, OSM. CT-1 has since been shown to be a pleiotropic cytokine with overlapping actions with other IL-6 family members on a variety of cell types. 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.

**Amino Acid Sequence:**

00001 SRREGSLEDP QTDSSVSLLP HLEAKIRQTH SLAHLTKYA  
00041 EQLLQEYVQL QGDPFGLPSF SPPRLPVAGL SAPAPSHAGL  
00081 PVHERLRLDA AALAALPPLL DAVCRRQAEL NPRAPRLRR  
00121 LEDAARQARA LGAAVEALLA ALGAANRGPR AEPPAATASA  
00161 ASATGVFPAK VLGLRVCGLY REWLSRTEGD LGQLLPGGSA  
00201

**Synonyms:** Cardiotrophin-1, CT-1, Cardiotrophin 1, CT1, CTF1, Cardiotrophin1

**Note:** For research use only, not for use in diagnostic procedure.