

**DATASHEET**

Version 2016-08-02

**CT-1, Human****Cat. No.:** Z03040-50**Size:** 50 µg**Synonyms:** CT-1**Description:**

**Cardiotrophin-1 (CT-1)** is a member of the cytokine family which also includes IL-6, IL-11, I LIF, CNTF, OSM. CT-1 has since been shown to be a pleiotrophic 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:**

SRREGSLEDP QTDSSVLLP HLEAKIRQTH SLAHLTKYA  
EQLLQEYVQL QGDPFGLPSF SPPRLPVAGL SAPAPSHAGL  
PVHERLRLDA AALAALPPLL DAVCRRQAEL NPRAPLLRR  
LEDAARQARA LGAAVEALLA ALGAANRGPR AEPPAATASA

ASATGVFPAK VLGLRVCGLY REWLSRTEGD LGQLLPGGSA

**Source:** CHO**Species:** Human**Biological Activity:** ED<sub>50</sub> < 0.4 ng/ml, measured in a cell proliferation assay using TF-1 cells.**Accession No:** Q16619**Molecular Weight:** 24~26kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**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 -80°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.

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