

## **DATASHEET** Version 20181206

## CT-1, Human

Cat. No.: Z03040-10

Size: 10.0 ug

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:**

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

Source: CHO Species: Human

**Biological Activity**:  $ED_{50} < 0.4$  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 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 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.