

Rev03  
Update: Dec,14,2021

**DATASHEET**

# CT-1, Human

Cat. No.: Z03040

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>CT-1 (Ser2-Ala201) Accession # Q16619</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE
<b>Endotoxin Level</b>	< 0.2 EU/ $\mu$ g of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 0.4 ng/ml, measured in a cell proliferation assay using TF-1 cells.
<b>Expression System</b>	CHO
<b>Apparent Molecular Weight</b>	24~26 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH <sub>2</sub> O or PBS up to 100 $\mu$ g/ml.
<b>Storage &amp; Stability</b>	Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Background

**Target Background :** Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, l 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.

**Synonyms :** CTF1; CT-1

**For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.**