

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant CT-1, Human

Catalog Number: BK0191-50µg

Source: CHO

Quantity: 50µg

### Description:

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

### Molecular Weight:

24~26kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

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

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

SRREGSLEDPQTDSSVSLPHLEA-  
KIRQTHSLAHLTKYAEQLLQEY-  
VQLQGDPFGLPSFSPRLPVAGLSAPAP-  
SHAGLPVHERLRLDAAALAALPPLLDVCR-  
QAE LNPRAPRLRRLEDAARQARALGAA-  
VEALLAALGAANRGPRAEPPAATASAA-  
SATGVFPAKVLGLRVCGLYREWLSR-  
TEGDLGQLLPGGSA

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

### 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.

### Usage:

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