

## 32-8295: Recombinant Human Cardiotrophin-1/CTF1 (N-6His)

**Gene :** CTF1  
**Gene ID :** 1489  
**Uniprot ID :** Q16619

### Description

Source: E. coli.  
MW :22.6kD.

Recombinant Human Cardiotrophin-1 is produced by our E.coli expression system and the target gene encoding Met1-Ala201 is expressed with a 6His tag at the N-terminus. Cardiotrophin-1, also known as CT-1 and CTF1, is a member of the IL-6 superfamily. It is a secreted cytokine that is expressed in heart, skeletal muscle, prostate and ovary, and to lower levels in lung, kidney, pancreas, thymus, testis and small intestine. The protein exerts its cellular effects by interacting with the glycoprotein 130 (gp130)/leukemia inhibitory factor receptor beta (LIFR) heterodimer. In addition, CT-1 activates phosphatidylinositol 3-kinase (PI-3 kinase) in cardiac myocytes and enhances transcription factor NF- $\kappa$ B DNA -binding activities.

### Product Info

**Amount :** 10  $\mu$ g / 50  $\mu$ g  
**Content :** Supplied as a 0.2  $\mu$ m filtered solution of 20mM PB,150mM NaCl,pH7.4.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MNHKVHHHHHMSRREGSLEDPQTDSSVSLLPHLEAKIRQTHSLAHLTKYAEQLLQEYVQLQGD  
PFGLPSPFPPRLPVAGLSAPAPSHAGLPVHERLRDLAAALAAPLLDAVCRRQAELNPRAPRLLR  
RLEDAARQARALGAAVEALLAALGAANRGPRAEPPAATASAASATGVFPAKVLGLRVCGLYREW  
SRTEGDLGQLLPGGSA

### Application Note

**Endotoxin :** Less than 0.1 ng/ $\mu$ g (1 IEU/ $\mu$ g) as determined by LAL test.