

## Active Recombinant Human CTF1, His-tagged

**Cat. No.** CTF1-8450H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CTF1, fused with His tag, was expressed in Sf21 Cells.
<b>Species</b>	Human
<b>Source</b>	Sf21 Cells
<b>Description</b>	<p>The CCAAT-box binding protein 1 (CTF1, also called NF-I or NF-1) is a proline-rich transcription activator. It selectively activates transcription of genes that contain GCCAAT consensus sequence in promoter region, including human Ha-Ras, alpha-globin, hsp70 and many other cellular and viral genes (1, 3-5). Cloning and functional characterization of the protein revealed that CTF1 contains an N-terminal DNA binding domain and a C-terminal proline-rich activation domain. CTF1 was shown to interact with the general transcription factor IIB (TFIIB) and facilitate the recruitment of TFIIB to TBP-DNA complexes, with the forkhead thyroid transcription factor TTF2 to regulate hormone-dependent transcription of thyroperoxidase gene, as well as other receptor proteins to synergize hormone receptor-responsive activation.</p>
<b>Form</b>	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
<b>Bio-activity</b>	1 unit equals 1 ng purified protein. 30-100 units (ng) are required for a reconstituted transcription assay and 5-20 units (ng) are required for a gel mobility shift assay in a 20µl reaction.
<b>AA Sequence</b>	MDEFHPFIEA LLPHVRAFAY TWFNLQARKR KYFKKHEKRM SKDEERAVKD ELLGEKPEVK QKWASRLLAK LRKDIRPECR EDFVLSITGK KAPGCVLSNP

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DQKKGKMRRID CLRQADKVWR LDLVMVILFK GIPLESTDGE RLVKAAQCGH  
 PVLVCVQPHHI GVAVKELDLY LAYFVRERDA EQSGSPRTGM GSDQEDSKPI  
 TLDTTDFQES FVTSGVFSVT ELIQVSRTPV VTGTGPNFSL GELQGHLAYD  
 LNPASTGLRR TLPSTSSSGS KRHKSGSMEE DVDTSPGGDY YTSPSSPTSS  
 SRNWTEDEMEG GISSPVKKTE MDKSPFNPS PQDSPRLSSF TQHHRPVIIV  
 HSGIARSPHP SSALHFPTTS ILPQTASTYF PHTAIRYPPH LNPQDPLKDL  
 VSLACDPASQ QPGPLNGSGQ LKMPSHCLSA QMLAPPPPGL PRLALPPATK  
 PATTSEGGAT SPTSPSYSPP DTSPANRSFV GLGPRDPAGI YQAQSWYLG

**Purity** >95% as determined by SDS-PAGE

**Storage** -80 °C

**Concentration** 500 µg/ml

**Shipping** Dry Ice

## GENE INFORMATION

**Gene Name** [CTF1 cardiostrophin 1 \[ Homo sapiens \]](#)

**Official Symbol** CTF1?

**Synonyms** CTF1; cardiostrophin 1; cardiostrophin-1; CT 1; CT1; cardiophin 1; CT-1;

**Gene ID** [1489](#)

**mRNA Refseq** [NM\\_001142544](#)

**Protein Refseq** [NP\\_001136016](#)

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<b>MIM</b>	600435
<b>UniProt ID</b>	Q16619
<b>Chromosome Location</b>	16p11.2
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem; MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem;
<b>Function</b>	cytokine activity; leukemia inhibitory factor receptor binding;

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