

Active Recombinant Human CTF1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CTF1, fused with His tag, was expressed in Sf21 Cells.
Species	Human
Source	Sf21 Cells
Description	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.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
Bio-activity	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.
AA Sequence	MDEFHPFIEA LLPHVRAFAY TWFNLQARKR KYFKKHEKRM SKDEERAVKD ELLGEKPEVK QKWASRLAK LRKDIRPECR EDFVLSITGK KAPGCVLSNP

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DQKGKMRRID CLRQADKVWR LDLVMVILFK GIPLESTDGE RLVKAAQCGH
 PVLCVQPHHI GVAVKELDLY LAYFVRERDA EQSGSPRTGM GSDQEDSKPI
 TLDTTDFQES FVTSGVFSVT ELIQVSRTPV VTGTGPNFSL GELQGHLAYD
 LNPASTGLRR TLPSTSSSGS KRHKSGSMEE DVDTSPGGDY YTSPSSPTSS
 SRNWTEDEMEG GISSPVKKTE MDKSPFNPS P QDSPRLSSF TQHHRPVIIV
 HSGIARSPHP SSALHFPTTS ILPQTASTYF PHTAIRYPPI 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 cardiotrophin 1 \[Homo sapiens \]](#)

Official Symbol CTF1?

Synonyms CTF1; cardiotrophin 1; cardiotrophin-1; CT 1; CT1; cardiophin 1; CT-1;

Gene ID [1489](#)

mRNA Refseq [NM_001142544](#)

Protein Refseq [NP_001136016](#)

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MIM	600435
UniProt ID	Q16619
Chromosome Location	16p11.2
Pathway	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;
Function	cytokine activity; leukemia inhibitory factor receptor binding;

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