

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 ELIQVS RTPV VTGTGPNFSL GELQGH LAYD
 LNPASTGLRR TLPSTSSSGS KRHKSGSMEE DVDTSPGGDY YTSPSSPTSS
 SRNWTE DMEG GISSPVKKTE MDKSPFN SPS PQDSPRLSSF TQHHRPVI AV
 HSGIARSPHP SSALHFPTTS ILPQTASTYF PHTAIRYP PH LNPQDPLKDL
 VSLACDPASQ QPGPLNGSGQ LKMP SHCLSA QMLAPPPPGL PRLALPPATK
 PATTSEGGAT SPTSPSY SPP 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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