# Active Recombinant Human Cardiotrophin 1, GST-tagged

**Cat. No.** CTF1-184H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | E.coli |
| **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. Cloning and functional characterization of the protein revealed that CTF1 contains a 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 hormonedependent transcription of thyroperoxidase gene, as well as other receptor proteins to synergize hormone receptor-responsive activation. The proline-rich activation domain of human CTF1 protein (amino acids 399-499) is isolated from an E. coli strain that carries the coding sequence of the fused protein under the control of a T7 promoter. GST-CTF1 has been used for protein-protein interaction assays. |
| **Usage** | For in vitro use only. |
| **Form** | Liquid. Supplied in 20 mM Tris-HCl pH 8.0, 100 mM KCl, 0.2 mM EDTA, 1 mM DTT and 20% glycerol. |

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| **Activity** | 100 ng are sufficient for a protein-protein interaction assay. |
| **Purity** | > 95% by SDS-PAGE. |
| **Storage** | Quality guaranteed for 12 months, Store at -80℃. Avoid freeze / thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | CTF1 cardiotrophin 1 [ Homo sapiens ] |
| **Synonyms** | CTF1; cardiotrophin 1; CT1; CT-1; cardiophin 1; Cardiotrophin-1 |
| **Gene ID** | 1489 |
| **mRNA Refseq** | NM_001142544 |
| **Protein Refseq** | NP_001136016 |
| **MIM** | 600435 |
| **UniProt ID** | Q16619 |
| **Chromosome Location** | 16p11.2 |
| **Pathway** | Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway |
| **Function** | cytokine activity; leukemia inhibitory factor receptor binding |

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