

Active Recombinant Human NFIC, GST-tagged

Cat. No. NFIC-325H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	399-499 a.a.
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 the 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 hormone-dependent transcription of thyroperoxidase gene, as well as other receptor proteins to synergize hormone receptor-responsive activation.
Bio-activity	1 unit equals 1 nanogram of purified protein. 100 units are sufficient for a protein-protein interaction assay.
Molecular Mass	36.8 kDa.

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Purity	Greater than 90% as determined by SDS-PAGE.
Applications	It can be applied in vitro dephosphorylation assay, DNA and protein-protein interactions assays.
Storage	Stored at -70°C before use. Avoid repeated freeze thaw cycles.
Storage Buffer	20 mM Tris-Cl (pH 8.0), 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA

GENE INFORMATION

Gene Name	NFIC nuclear factor I/C (CCAAT-binding transcription factor) [Homo sapiens]
Official Symbol	NFIC
Synonyms	NFIC; nuclear factor I/C (CCAAT-binding transcription factor); NFI; nuclear factor 1 C-type; CTF; CTF5; NF I; NF1-C; NF-I/C; TGGCA-binding protein; CCAAT-box-binding transcription factor; NF-I; MGC20153;
Gene ID	4782
mRNA Refseq	NM_001245002
Protein Refseq	NP_001157741
MIM	179617
UniProt ID	Q06609
Chromosome Location	15q15.1

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Pathway

Assembly of the RAD51-ssDNA nucleoprotein complex, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Homologous DNA pairing and strand exchange, organism-specific biosystem;

Function

ATP binding; ATP binding; DNA-dependent ATPase activity; damaged DNA binding; double-stranded DNA binding; double-stranded DNA binding; identical protein binding; nucleoside-triphosphatase activity; nucleotide binding; protein C-terminus binding; protein binding; single-stranded DNA binding; single-stranded DNA-dependent ATPase activity;