

Recombinant Human CCAAT/enhancer Binding Protein(C/EBP) α, His-tagged

Cat. No. CEBPA-94H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CEBP-α (residues 270-358) was purified by ion-exchange chromatography and FPLC gel-filtration chromatography. Recombinant Human CEBP-α His-Tag fusion protein produced in E.Coli is a single, non-glycosylated polypeptide chain containing amino acids 126 and having a molecular mass of 14.5 kDa
Species	Human
Source	E.coli
Protein Length	270-358 a.a.
Description	CCAAT/enhancer binding protein(C/EBP) α is a family of transcription factors that all contain a highly conserved, basic-leucine zipper domain at the C-terminus that is involved in dimerization and DNA binding. C/EBP family of transcription factors regulates viral and cellular CCAAT/enhancer element-mediated transcription. C/EBP family consist of several related proteins, C/EBP α, β, γ, δ, that form homodimers and that form heterodimers with each other. C/EBP proteins contain the bZIP region, which is characterized by two motifs in the C-terminal half of the protein; a basic region involved in DNA binding and a leucine zipper motif involved in dimerization. C/EBPs differ significantly in their physiological functions and in their downstream target genes. For example, mice lacking C/EBP α die shortly after birth due to severe hypoglycemia and the absence of glycogen storage in liver, whereas knockout of

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	C/EBP β causes defects in female reproduction.
Amino Acid Sequence	MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMGAGKAKKSVDKNSNE YRVRRERNNIIVRKS RDKAKQRNVETQQKVLELTSDNDRLRKRVEQLS RELDTLR GIF RQLPESSLVKAMGNCA
Physical Appearance	Sterile filtered colorless solution.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by reducing and non-reducing SDS-PAGE Coomassie
Formulation	The protein (0.87mg/ml) contains 20mM Tris-HCl pH7.5, 0.1M NaCl and 5mM β -Mercaptoethanol
Applications	• ELISA • Inhibition Assays • Western Blotting
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

GENE INFORMATION

Gene Name	CEBPA CCAAT/enhancer binding protein (C/EBP), alpha [Homo sapiens]
Synonyms	CEBPA; C/EBP-alpha; CEBP; CCAAT/enhancer binding protein alpha; CCAAT/enhancer binding protein (C/EBP), alpha
Gene ID	1050
mRNA Refseq	NM_004364

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Protein Refseq	NP_004355
MIM	601626
UniProt ID	P49715
Chromosome Location	19q13.1
Pathway	Acute myeloid leukemia; Pathways in cancer
Function	RNA polymerase II transcription factor activity, enhancer binding; protein dimerization activity; sequence-specific DNA binding; transcription factor binding
PDB rendering based on 1nqw.	