Recombinant Human CCAAT/Enhancer Binding Protein (C/EBP), Alpha, His-tagged

Cat. No. CEBPA-5377H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanCEBP gamma is a single, non-glycosylated polypeptide chain containing aminoacids 39-147 and a His tag. Itsmolecular weight is 16500 Dalton.
Species	Human
Source	E.coli
ProteinLength	39-147 a.a.
Description	CEBPA is a proteinthat in humans is encoded by the CEBPA gene. The protein encoded by thisintronless gene is a bZIP transcription factor which can bind as a homodimerto certain promoters and enhancers. It can also form heterodimers with therelated proteins CEBP-beta and CEBP-gamma. The encoded protein has been shownto bind to the promoter and modulate the expression of the gene encodingleptin, a protein that plays an important role in body weight homeostasis.Also, the encoded protein can interact with CDK2 and CDK4, thereby inhibitingthese kinases and causing growth arrest in cultured cells.
Form	Sterilefiltered liquid in 20 mM Tris-HCl, pH7.5 + 0.1 M NaCl + 5 mM β-mercaptoethanol.
Molecular Weight	16.5 kDa
Purity	> 95% asdetermined by RP-HPLC and SDS-PAGE analyses

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Endotoxin Level	< 0.1 ng/μg ofCEBPA gamma
Storage	Store at 2-4°C forup to 4 weeks or in working aliquots at -20°C for longer storage. Add a carrierprotein (0.1% HSA or BSA) as a stabilizer for long term storage. Please notethat the addition of any carrier protein into this product may produceunwanted endotoxin. This depends upon the particular application employed.Avoid repeated freeze-thaw cycles.
OfficialSymbol	CEBPA

GENE INFORMATION

Gene Name	CEBPA CCAAT/enhancer binding protein(C/EBP), alpha [Homo sapiens]
Synonyms	CEBPA;CCAAT/enhancer binding protein (C/EBP), alpha; C/EBP-alpha; CEBP;CCAAT/enhancer binding protein (C/EBP), alpha; CCAAT/enhancer binding proteinalpha
Gene ID	1050
mRNA Refseq	NM_004364
Protein Refseq	NP_004355
MIM	601626
UniProt ID	P49715
Chromosome Location	19q13.1

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Pathway	Acute myeloidleukemia; Adipogenesis; C-MYB transcription factor network; DevelopmentalBiology; E2F transcription factor network; EGFR1 Signaling Pathway; FOXA2 andFOXA3 transcription factor networks; Pathways in cancer; Regulation ofAndrogen receptor activity; Regulation of retinoblastoma protein;Transcriptional Regulation of White Adipocyte Differentiation; Validatedtargets of C-MYC transcriptional repression
Function	DNA binding; proteinbinding; protein complex binding; protein domain specific binding; proteinheterodimerization activity; protein homodimerization activity;sequence-specific DNA binding; sequence-specific DNA binding transcriptionfactor activity; sequence-specific distal enhancer binding RNA polymerase IItranscription factor activity; transcription factor binding; transcriptionregulatory region DNA binding
PDB rendering basedon 1nqw.	

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