CEBPA

Recombinant Human CCAAT/Enhancer Binding Protein His (bZIP domain aa 270-358)

Catalog No.	CSI15637A CSI15637B	**Quantity:**	100 µg 500 µg

Alternate Names: C/EBP-alpha, CEBP, CCAAT/enhancer binding protein alpha

Description: CCAAT/enhancer binding protein(C/EBP) alpha 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 domain, 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/EBPα die shortly after birth due to severe hypoglycemia and the absence of glycogen storage in liver, whereas knockout of C/EBPbeta causes defects in female reproduction. The bZip region of CEBP-alpha (residues 270-358) was produced in *E. coli* and purified by ion-exchange chromatography and FPLC gel-filtration chromatography.

Concentration: 1 mg/ml (determined by Bradford assay)

GeneID: 1050

Protein Accession No: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -80°C. **Avoid repeated freezing and thawing cycles.**

Source: *E. coli*

Molecular Weight: 14.5kDa (126aa), confirmed by MALDI-TOF.

Formulation: Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 0.1 M NaCl 5 mM β-Mercaptoethanol

Purity: ≥ 95% by SDS PAGE

Amino Acid Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD kDaRWGSMGAG KAKKSVDKNS NEYRVRRERN NIAVRKSRDK AKQRNVETQQ KVLELTSDND RLRKRVEQLS RELDTLRGIF RQLPESSLVK AMGNCA

Application: SDS-PAGE

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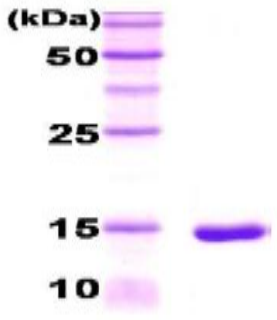
Storage & Stability: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -80°C. **Avoid repeated freezing and thawing cycles.**



15% SDS-PAGE (3ug)

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