

Recombinant human CEBP alpha/CEBPA protein

Catalog Number: CBP3001

PRODUCT INFORMATION

Expression system

E.coli

Domain

270-358aa

UniProt No.

P49715

NCBI Accession No.

NP_004355

Alternative Names

CCAAT/enhancer-binding protein alpha, C/EBP alpha, CEBP

PRODUCT SPECIFICATION

Molecular Weight

14.5 kDa (126aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.1M NaCl, 5mM beta-Mercaptoethanol.

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 alpha, beta, gamma, delta, 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

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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 alpha 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.

Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSM>GAG KAKKSVDKNS NEYRVREREN NIAVRKSRDK
AKQRNVETQQ KVLELTSND RLRKRVEQLS RELDTLRGIF RQLPESSLVK AMGNCA

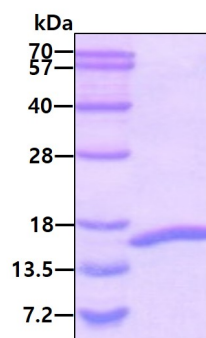
General References

Subramanian, L., et al. (2003) *J. Biol. Chem.* 278(11) 9134 - 9141

Gombart, A.F., et al (2002) *Blood* 99(4) 1332-1340

DATA

SDS-PAGE



3µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.