

CEBP-?, (bZIPregion, residues 270-358, His-tag, Human)**Cat.NO.: TP01573**

3th Edition

Synonyms:CCAAT/enhancer binding protein ?, CEBPA

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

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

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

Sequences:

MRGSHHHHHHGMASMTGGQMQGRDLYDDDDKDRWGSMGAGKAKKSVDKNSNEYRVRERNNIAVRKSRDKA
KQRNVETQQKVLELTSDNDRLRKRVEQLSRELDTLRGIFRQLPESSLVKAMGNCA

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.