

CEBPA

Recombinant Human CCAAT/Enhancer Binding Protein CEBP Alpha His

Catalog No.	CRC132A	Quantity:	10 µg
	CRC132B		50 µg
	CRC132C		1.0 mg

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

Description: CCAAT/enhancer binding protein(C/EBP) a 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 a,b,g,d, 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/EBPa die shortly after birth due to severe hypoglycemia and the absence of glycogen storage in liver, whereas knockout of C/EBPb causes defects in female reproduction.

CEBP-a Human Recombinant His-Tag fusion protein produced in E.Coli is a single, non-glycosylated polypeptide chain containing amino acids 126 (aa 270-358) and having a molecular mass of 14.5 kDa.

The Recombinant Human CEBP-a was purified by proprietary chromatographic techniques.

Gene ID: 1050

Protein Accession No: NP_004355

Source: *E. coli*

Molecular Weight: 14.5 kDa

Formulation: Sterile filtered liquid in 20 mM Tris-HCl, pH 7.5 + 0.1 M NaCl + 5 mM β-mercaptoethanol

Purity: > 95% as determined by SDS-PAGE analyses

Amino Acid Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMGAG KAKKSVDKNS
NEYRVREREN NIAVRKSRDK AKQRNVETQQ KVLELTSDND RLRKRVEQLS
RELDTLRGIF RQLPESSLVK AMGNCA

Storage & Stability: Store at 2-4°C for up to 4 weeks or in working aliquots at -20°C for longer storage. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.**

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