



## Product Datasheet

<b>Product Name</b>	CCAAT/enhancer binding protein CEBP Alpha Human Recombinant
<b>Cata No</b>	CB501053
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	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.

### Physical Appearance

Sterile filtered colorless solution.

### Purity

Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### Formulation

The protein contains 20mM Tris-HCl pH7.5, 0.1M NaCl and 5mM b-Mercaptoethanol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Avoid multiple freeze-thaw cycles.**

### Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD  
KDRWGSMGAG KAKKSVDKNS NEYRVREREN  
NIAVRKSRDK AKQRNVETQQ KVLELTSDND  
RLRKRVEQLS RELDTLRGIF  
RQLPESSLVKAMGNCA