
Product Data Sheet

Product Name: CEBP Alpha Human
 Cat. No.: GP23116
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CCAAT/enhancer-binding protein alpha; C/EBP alpha; CEBPA; CEBP.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMGAG KAKKSVDKNS NEYRVREREN NIAVRKSRDK AKQRNVETQQ KVLELTSDND RLRKRVEQLS RELDTLRGIF RQLPESSLVKAMGNCA.		
Formulation	The protein contains 20mM Tris-HCl pH7.5, 0.1M NaCl and 5mM b-Mercaptoethanol.		

Introduction

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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

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.

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