

## Product datasheet for **TP760685**

### CEBP Alpha (CEBPA) (NM\_004364) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human CCAAT/enhancer binding protein (C/EBP), alpha (CEBPA), full length, with N-terminal HIS tag, expressed in E.Coli, 50ug
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	A DNA sequence encoding human full-length CEBPA
Tag:	N-His
Predicted MW:	37.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol
Bioactivity:	Binding assay (PMID: <a href="#">29636686</a> )
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_004355</a>
Locus ID:	1050
UniProt ID:	<a href="#">P49715</a>
RefSeq Size:	2385
Cytogenetics:	19q13.11
RefSeq ORF:	1074
Synonyms:	C/EBP-alpha; CEBP



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**Summary:**

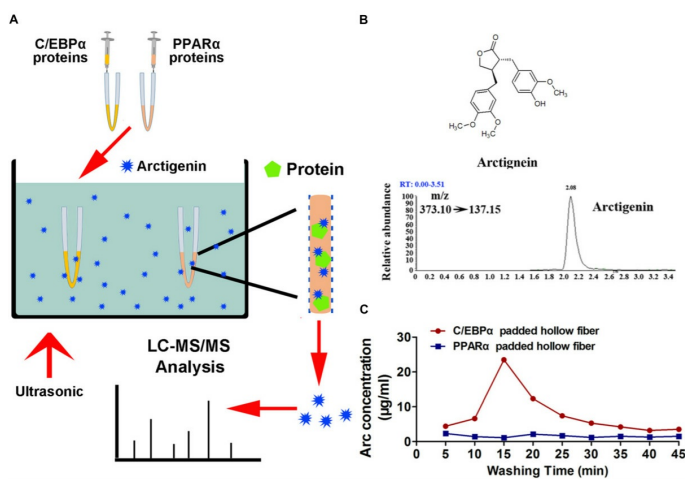
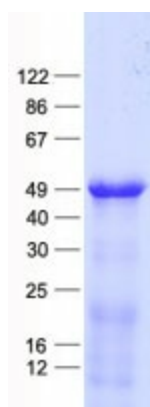
This intronless gene encodes a transcription factor that contains a basic leucine zipper (bZIP) domain and recognizes the CCAAT motif in the promoters of target genes. The encoded protein functions in homodimers and also heterodimers with CCAAT/enhancer-binding proteins beta and gamma. Activity of this protein can modulate the expression of genes involved in cell cycle regulation as well as in body weight homeostasis. Mutation of this gene is associated with acute myeloid leukemia. The use of alternative in-frame non-AUG (GUG) and AUG start codons results in protein isoforms with different lengths. Differential translation initiation is mediated by an out-of-frame, upstream open reading frame which is located between the GUG and the first AUG start codons. [provided by RefSeq, Dec 2013]

**Protein Families:**

Druggable Genome, ES Cell Differentiation/IPS

**Protein Pathways:**

Acute myeloid leukemia, Pathways in cancer

**Product images:**


Arctigenin binds with C/EBP alpha (OriGene TP760685) but not PPAR alpha in vitro. (A) Schematic illustration of a hollow fiber-based ligand fishing assay (HFLF) combined with LC-MS. (B) Structure and representative extracted ion chromatograms of spiked arctigenin (multiple reaction monitoring model). (C) Arctigenin concentration vs. washing time profiles in an HFLF assay. Figure cited from Front Pharmacol, PMID: 29636686