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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 μ g/ μ L 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: <u>29636686</u>) | |
| 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: | <u>NP 004355</u> | |
| Locus ID: | 1050 | |
| UniProt ID: | <u>P49715</u> | |
| RefSeq Size: | 2385 | |
| Cytogenetics: | 19q13.11 | |
| RefSeq ORF: | 1074 | |
| Synonyms: | C/EBP-alpha; CEBP | |
| | | |



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GRIGENE CEBP Alpha (CEBPA) (NM_004364) Human Recombinant Protein – TP760685

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

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