**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for SA6043X

## CEBPA (bZIP Region, His-tag) Human Protein

### Product data:

| | |
|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | CEBPA (bZIP Region, His-tag) human protein, 0.5 mg |
| **Species:** | Human |
| **Expression Host:** | E. coli |
| **Expression cDNA Clone or AA Sequence:** | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMGAG KAKKSVDKNS NEYRVRRERN NIAVRKSRDK AKQRNVETQQ KVLELTSDND RLRKRVEQLS RELDTLRGIF RQLPESSLVK AMGNCA |
| **Tag:** | His-tag |
| **Predicted MW:** | 15 kDa |
| **Concentration:** | lot specific |
| **Purity:** | >95% by SDS-PAGE |
| **Buffer:** | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl pH 7.5, 0.1 M NaCl, 5 mM β-Mercaptoethanol |
| **Preparation:** | Liquid purified protein |
| **Protein Description:** | The bZip region of CEBP-α (residues 270-358) was produced in E.coli and purified by ion-exchange chromatography and FPLC gel-filtration chromatography. |
| **Storage:** | Store (in aliquots) at -20°C. Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **RefSeq:** | NP_001272758 |
| **Locus ID:** | 1050 |
| **UniProt ID:** | P49715 |
| **Cytogenetics:** | 19q13.11 |
| **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: