

## Recombinant Human CEBPG, His-tagged

**Cat. No.** CEBPG-95H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human CEBP- $\gamma$  His-Tagged fusion protein produced in *E. Coli* as a single, non-glycosylated polypeptide chain containing amino acids 146 and having a molecular mass of 16.5 kDa.

**Species**      Human

**Source**      E.coli

**Description**      CCAAT/enhancer binding protein (C/EBP)  $\gamma$  is a family of transcription factors 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  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ , that form homodimers and/or 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/EBP  $\gamma$  may cooperate with Fos to bind PRE- enhancer elements. The DNA binding domain of CEBP- $\gamma$  (amino acid residues, 39-147) was purified by using conventional chromatography techniques

**Sequence**      MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMPGGGGKAVAPSKQSK  
KSSPMDRNSDEYRQRRERNMVAVKKSRLLSKQKAQDTLQRVNLKEEN ERLEAKI  
KLL TKELSVLKDL FLEHAHNLAD NVQSISTENT TADGDN

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|                            |  |
|----------------------------|--|
| <b>Purity</b>              | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by reducing and non-reducing SDS-PAGE Coomassie.  |
| <b>Physical Appearance</b> | Sterile filtered colorless solution.   |
| <b>Formulation</b>         | The protein (1mg/ml) contains 20mM Tris-HCl pH7.5, 0.1M NaCl and 5mM $\beta$ -Mercaptoethanol  |
| <b>Storage</b>             | Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). |

## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | CEBPG CCAAT/enhancer binding protein (C/EBP), gamma [ Homo sapiens ]  |
| <b>Synonyms</b>            | CEBPG; CCAAT/enhancer binding protein (C/EBP), gamma; GPE1BP; IG/EBP-1; IG/EBP-1; C/EBP gamma; CCAAT/enhancer binding protein gamma |
| <b>Gene ID</b>             | 1054  |
| <b>mRNA Refseq</b>         | NM_001806   |
| <b>Protein Refseq</b>      | NP_001797   |
| <b>MIM</b>                 | 138972  |
| <b>UniProt ID</b>          | P53567  |
| <b>Chromosome Location</b> | 19q13.2   |

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**Function**

double-stranded DNA binding; protein heterodimerization activity; sequence-specific DNA binding; transcription factor activity; transcription factor binding

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