

# Recombinant human CEBP gamma/CEBPG protein

Catalog Number: CBP3003

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

39-147aa

### UniProt No.

P53567

### NCBI Accession No.

NP\_001797.1

### Alternative Names

CCAAT/enhancer-binding protein gamma, C/EBP gamma, GPE1BP, IG/EBP-1

## PRODUCT SPECIFICATION

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### Molecular Weight

16.5 kDa (146aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 0.1M NaCl, 5mM beta-Mercaptoethanol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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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 produced in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSM>PGG G GKAVAPSKQ SKKSSPMDRN SDEYRQRRER  
NNMAVKK SRL KSKQKAQDTL QRVNQLKEEN ERLEAKIKLL TKELSVLKDL FLEHAHNLAD NVQSISTENT TADGDN

## General References

Hattori,T., et al (2003) Oncogene 22(9). ,1273-1280

Davydov,I., et al(1995) Gene. 161(2)

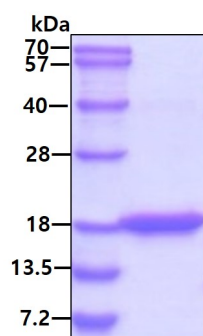
271-275

Williams, S.C.,et al (1991) Genes Dev. 5(9)

1553-1567

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain