

Recombinant Human CEBPG, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CEBP-γ His-Tagged fusion protein produced in <i>E. Coli</i> is 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) γ 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 α, β, γ, δ, 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 γ may cooperate with Fos to bind PRE- enhancer elements. The DNA binding domain of CEBP-γ (amino acid residues, 39-147) was purified by using conventional chromatography techniques
Sequence	MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSMPGGGGKAVAPSKQSK KSSPMDRNSDEYRQRRERNMMAVKKSRLKSKQKAQDTLQRVNQLKEEN ERLEAKI KLL TKELSVLKDL FLEHAHNLAD NVQSISTENT TADGDN

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Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by reducing and non-reducing SDS-PAGE Coomassie.
Physical Appearance	Sterile filtered colorless solution.
Formulation	The protein (1mg/ml) contains 20mM Tris-HCl pH7.5, 0.1M NaCl and 5mM β -Mercaptoethanol
Storage	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

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