Data Sheet (Cat.No.TMPY-03794)

TargetMol

CEBP gamma Protein, Human, Recombinant (His)

General Information

Synonyms:	CCAAT/enhancer binding protein (C/EBP), gamma;GPE1BP;CEBP γ;CCAAT/enhancer binding protein (C/EBP), γ;IG/EBP-1
Protein Construction:	A DNA sequence encoding the human CEBPG (P53567) (Pro39-Asn147) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	P53567
Molecular Weight:	14.1 kDa (predicted); 16 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris, 10% glycerol, pH 8.0.Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CEBPG, also known as CEBP gamma, is a transcription factor which belongs to the CEBP family. Members of this family regulate viral and cellular CCAAT/enhancer element-mediated transcription. CEBP 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. CEBPG binds to the enhancer element PRE-I of the IL-4

gene. It Might change the DNA-binding specificity of other transcription factors and recruit them to unusual DNA sites.

Reference

Thomassin H. et al., 1992, Nucleic Acids Res. 20 (12): 3091-8.
Nishizawa M. et al., 1992, FEBS Lett. 299 (1): 36-8.
Williams SC. et al., 1991, Genes Dev. 5 (9): 1553-67.
Melchionna R. et al., 2012, J Invest Dermatol. 132 (7): 1908-17.

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