Recombinant CEBPG protein (His tag)

Catalog Number	537828
Synonyms	C/EBP gamma
Species	Human
Expression System	E. coli
Accession	P53567
Molecular Weight	Predictes a molecular mass of 12.55 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	57-150
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 57-150 aa (P53567) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human CCAAT/enhancer-binding protein gamma (C/EBP gamma) fragment (amino acids 57-150) is a high-purity protein designed for transcriptional regulation studies. This 94-amino acid fragment fully encompasses the bZIP functional domain, making it an ideal tool for investigating DNA-binding mechanisms and gene expression control in immune and hematopoietic systems. CCAAT/enhancer-binding protein gamma (C/EBP gamma) is a transcription factor that binds to promoter and enhancer regions of target genes, playing crucial roles in immune regulation and hematopoiesis. It specifically binds to the positive regulatory element-I (PRE-I) of the IL-4 gene, as well as to the promoter and enhancer regions of the immunoglobulin heavy chain and the G-CSF gene promoter element GPE1. The protein localizes to the nucleus where it executes its transcriptional regulatory functions. This recombinant fragment provides researchers with a focused tool to study the specific DNA-binding capabilities and transcriptional mechanisms mediated by the bZIP domain without interference from other protein regions.