Recombinant Human EIF4EBP1, His-tagged

Cat. No. EIF4EBP1-26388TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length eIF4EBP1 protein , with N-terminal His tag, MW 18 kDa, expressed in insect sf9 cells.
Species	Human
Description	This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5 end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation.
Conjugation	HIS
Form	Liquid
Purity	Purified via His tag
Storage buffer	Preservative: 150mM ImidazoleConstituents: 25% Glycerol, 50mM Sodium phosphate, 300mM Sodium chloride, 0.2mM DTT, 0.1mM PMSF, pH 7.0
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequence Similarities	Belongs to the eIF4E-binding protein family.
Full Length	Full L.

GENE INFORMATION

Gene Name	EIF4EBP1 eukaryotic translation initiation factor 4E binding protein 1 [Homo sapiens]
Official Symbol	EIF4EBP1
Synonyms	EIF4EBP1; eukaryotic translation initiation factor 4E binding protein 1; eukaryotic translation initiation factor 4E-binding protein 1; 4E BP1; PHAS I; phosphorylated heat and acid stable protein regulated by insulin 1;
Gene ID	1978
mRNA Refseq	NM_004095
Protein Refseq	NP_004086
MIM	602223
Uniprot ID	Q13541
Chromosome Location	8p12
Pathway	AMPK signaling, organism-specific biosystem; Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Acute myeloid leukemia, organism-specific biosystem; Acute

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	myeloid leukemia, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem;
Function	eukaryotic initiation factor 4E binding; protein binding;

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