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32-3738: EIF4EBP1 Recombinant Protein

Alternative Name :	Eukaryotic translation initiation factor 4E-binding protein 1,eIF4E-binding protein 1,4E-BP1,Phosphorylated heat- and acid-stable protein regulated by insulin 1,PHAS-I,EIF4EBP1,BP-1,4EBP1,MGC4316.

Description

Source : Escherichia Coli. EIF4EBP1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 138 amino acids (1-118 a.a.) and having a molecular mass of 14.7kDa (molecular weight on SDS-PAGE will appear higher).The EIF4EBP1 is purified by proprietary chromatographic techniques. EIF4EBP1 (eukaryotic translation initiation factor 4E-binding protein 1) belongs to a family of translation repressor proteins. EIF4EBP1 regulates eIF4E (eukaryotic translation initiation factor 4E) activity by preventing its assembly into the eIF4F complex and mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways. EIF4EBP1 is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. EIF4EBP1 C-terminus has domains which control function and phosphorylation. EIF4EBP1 has a role in progression of breast neoplasms through cell signaling.

Product Info

Amount :	50 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The EIF4EBP1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MSGGSSCSQT PSRAIPATRR VVLGDGVQLP PGDYSTTPGG TLFSTTPGGT RIIYDRKFLM ECRNSPVTKT PPRDLPTIPG VTSPSSDEPP MEASQSHLRN SPEDKRAGGE ESQFEMDI.