
Product Data Sheet

Product Name: EIF4EBP1 Human
 Cat. No.: GP23387
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Eukaryotic translation initiation factor 4E-binding protein 1; eIF4E-binding protein 1; 4E-BP1; PHAS-I; EIF4EBP1; BP-1; 4EBP1; MGC4316.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSGGSSCSQT PSRAIPATRR VVLGDGVQLP PGDYSTTPGG TLFSTTPGGT RIIYDRKFLM ECRNSPVTKT PPRDLPTIPG VTSPSSDEPP MEASQSHLRN SPEDKRAGGE ESQFEMDI.		
Formulation	The EIF4EBP1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.		

Introduction

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, 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.

Stability

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.

Background

EIF4EBP1 Human Recombinant fused with a 20 amino acid His tag at N-terminus

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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