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EIF4EBP1 Human

Eukaryotic translation initiation factor 4E-binding protein 1 Human Recombinant RCP0743

Product Overview

Name	EIF4EBP1 Human

Description

Eukaryotic translation initiation factor 4E-binding protein 1 Human Recombinant

Accession (Primary)	Q13541

Synonyms

Eukaryotic translation initiation factor 4E-binding protein 1, eIF4E-binding protein 1, 4E-BP1, PHAS-I, EIF4EBP1, BP-1, 4EBP1, MGC4316.

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The EIF4EBP1 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0) and 10% glycerol.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MSGGSSCSQT PSRAIPATRR VVLGDGVQLP PGDYSTTPGG TLFSTTPGGT

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RIIYDRKFLM ECRNSPVTKT PPRDLPTIPG VTSPSSDEPP MEASQSHLRN SPEDKRAGGE ESQFEMDI.

Precautions

EIF4EBP1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q13541)