

EIF4E recombinant protein

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CATALOG # AAA72907	HOST E Coli	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

EIF4E; EIF4E recombinant protein; CBP; EIF4F; EIF4E1; EIF4EL1; MGC111573

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>85%
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Concentration	0.2ug/ul (varies by lot)
Sequence Length	4749
Applicable Applications for EIF4E recombinant protein	WB (Western Blot), Kinase Assay
Type	Recombinant Fusion Protein
Species	Human
Tag Information	GST tag
Expression System	E.coli
Source Note	Recombinant full-length human EIF4E was expressed in E. coli cells
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Stability: 1 yr at -70 degree C from date of shipment. Shipping: Ships with dry ice.

IMAGES



SDS-PAGE

The purity of EIF4E protein was determined to be >85% by densitometry. Approx. MW 51 kDa

ADDITIONAL INFORMATION

Related Product Information for EIF4E recombinant protein	Recombinant full-length human EIF4E was expressed in E. coli cells using a N-terminal GST tag. Scientific Background: Eukaryotic Translation Initiation Factor 4E (EIF4E), plays a role in translation initiation where it binds the 5 m7G cap found on mRNAs. EIF4E governs cell cycle progression and cellular proliferation by coordinately the expression of several genes at the post-transcriptional level. EIF4E functions as a central node of an RNA regulon, which plays an essential role in normal differentiation and development (1). The significant association of EIF4E with VEGF and cyclin D1 in multiple tumors supports a role for EIF4E in translational regulation of proteins related to angiogenesis and growth. The overexpression of EIF4E is involved in the malignant progression of human breast cancer (2).
Product Categories/Family for EIF4E recombinant protein	Cellular Proteins; Signaling Proteins - Cellular Proteins
References	1. Culjkovic, B. et al: Controlling gene expression through RNA regulons: the role of the eukaryotic translation initiation factor eIF4E. Cell Cycle. 2007; 6(1):65-9. 2. Zhou, S. et al: Eukaryotic initiation factor 4E (eIF4E) and angiogenesis: prognostic markers for breast cancer. BMC Cancer. 2006; 30 (6): 231

NCBI AND UNIPROT INFORMATION

NCBI GI #	194578905
NCBI GeneID	1977
NCBI Accession #	NM_001968
NCBI GenBank Nucleotide #	NM_001968
UniProt Accession #	P06730; Q96E95; B7Z6V1; D6RCQ6
Molecular Weight	~51 kDa
NCBI Official Full Name	Homo sapiens eukaryotic translation initiation factor 4E (EIF4E), transcript variant 1, mRNA
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 4E
NCBI Official Symbol	EIF4E
NCBI Official Synonym Symbols	CBP; EIF4F; AUTS19; EIF4E1; EIF4EL1
NCBI Protein Information	eukaryotic translation initiation factor 4E; eIF-4E; eIF-4F 25 kDa subunit; mRNA cap-binding protein; eukaryotic translation initiation factor 4E-like 1
UniProt Protein Name	Eukaryotic translation initiation factor 4E
UniProt Gene Name	EIF4E
UniProt Synonym Gene Names	EIF4EL1; EIF4F; eIF-4E; eIF4E
UniProt Entry Name	IF4E_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/eif4e-recombinant-protein-e-coli-wb-western-blot-kinase-assay/72907>