Recombinant Full Length Human EIF4E Protein, C-Myc/DDK-tagged

Cat. No. EIF4E-12HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human EIF4E Protein, fused to Myc-DDK-tag at C-terminus, was expressed in HEK293T.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a component of the eukaryotic translation initiation factor 4F complex, which recognizes the 7-methylguanosine cap structure at the 5' end of messenger RNAs. The encoded protein aids in translation initiation by recruiting ribosomes to the 5'-cap structure. Association of this protein with the 4F complex is the rate-limiting step in translation initiation. This gene acts as a proto-oncogene, and its expression and activation is associated with transformation and tumorigenesis. Several pseudogenes of this gene are found on other chromosomes. Alternative splicing results in multiple transcript variants.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol.
Molecular Mass	24.9 kDa
AA Sequence	MATVEPETTPTPNPPTTEEEKTESNQEVANPEHYIKHPLQNRWALWFFKNDKSKTW QANLRLISKFDTVE DFWALYNHIQLSSNLMPGCDYSLFKDGIEPMWEDEKNKRGGR WLITLNKQQRRSDLDRFWLETLLCLIGE SFDDYSDDVCGAVVNVRAKGDKIAIWTTE CENREAVTHIGRVYKERLGLPPKIVIGYQSHADTATKSGST TKNRFVV TRTRPLEQK

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	LISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>0.05 g/μ as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Insulin signaling pathway, mTOR signaling pathway
Full Length	Full L.

GENE INFORMATION

Gene Name	EIF4E eukaryotic translation initiation factor 4E [Homo sapiens (human)]
Official Symbol	EIF4E
Synonyms	CBP; EIF4F; AUTS19; EIF4E1; eIF-4E; EIF4EL1
Gene ID	1977

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mRNA Refseq	NM_001968.5
Protein Refseq	NP_001959.1
MIM	133440
UniProt ID	P06730
SDS-PAGE	Coomassie blue staining of purified EIF4E protein.

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