Recombinant Mouse Eif3e Protein, Myc/DDK-tagged

Cat. No. Eif3e-2779M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length eukaryotic translation initiation factor 3, subunit E (Eif3e), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression. Required for nonsense-mediated mRNA decay (NMD); may act in conjunction with UPF2 to divert mRNAs from translation to the NMD pathway. May interact with MCM7 and EPAS1 and regulate the proteasome-mediated degradation of these proteins.
Molecular Mass	52.2 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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 after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Eif3e eukaryotic translation initiation factor 3, subunit E [Mus musculus (house mouse)]
Official Symbol	Eif3e
Synonyms	EIF3E; eukaryotic translation initiation factor 3, subunit E; eukaryotic translation initiation factor 3 subunit E; eIF-3 p48; MMTV integration site 6; mammary tumor integration site 6; viral integration site protein INT-6; mammary tumor-associated protein INT-6; eukaryotic translation initiation factor 3 subunit 6; eukaryotic translation initiation factor 3, subunit 6 48kDa; Int6; 48kDa; Eif3s6; eIF3-p46; eIF3-p48
Gene ID	16341
mRNA Refseq	NM_008388
Protein Refseq	NP_032414
UniProt ID	P60229

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