

## Recombinant Mouse Eif3m Protein, Myc/DDK-tagged

**Cat. No.** Eif3m-2783M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length eukaryotic translation initiation factor 3, subunit M (Eif3m), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>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-tRNA<sup>i</sup> 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.</p>
<b>Molecular Mass</b>	42.5 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and

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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** [Eif3m eukaryotic translation initiation factor 3, subunit M \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Eif3m](#)

**Synonyms** EIF3M; eukaryotic translation initiation factor 3, subunit M; eukaryotic translation initiation factor 3 subunit M; dendritic cell protein GA17; PCI domain-containing protein 1; PCI domain containing 1 (herpesvirus entry mediator); Ga17; Pcid1; MGC118449

**Gene ID** [98221](#)

**mRNA Refseq** [NM\\_145380](#)

**Protein Refseq** [NP\\_663355](#)

**UniProt ID** [Q99JX4](#)

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