

Recombinant Mouse Eif3b Protein, Myc/DDK-tagged

Cat. No. Eif3b-2777M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length eukaryotic translation initiation factor 3, subunit B (Eif3b), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	RNA-binding 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.
Molecular Mass	91.4 kDa
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

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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 Eif3b eukaryotic translation initiation factor 3, subunit B [Mus musculus (house mouse)]

Official Symbol Eif3b

Synonyms EIF3B; eukaryotic translation initiation factor 3, subunit B; eukaryotic translation initiation factor 3 subunit B; eIF-3-eta; eIF3 p116; eukaryotic translation initiation factor 3 subunit 9; eukaryotic translation initiation factor 3, subunit 9 (eta); PRT1; Eif3s9; AL033316; AL033334; AL033369; AW208965; D5Wsu45e; EIF3-ETA; EIF3-P110; EIF3-P116

Gene ID 27979

mRNA Refseq NM_133916

Protein Refseq NP_598677

UniProt ID Q8JZQ9

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