

Product datasheet for TP301833M

EIF3S2 (EIF3I) (NM_003757) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human eukaryotic translation initiation factor 3, subunit I (EIF3I), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC201833 protein sequence Red=Cloning site Green=Tags(s)

MKPILLQGHERSITQIKYNREGDLLFTVAKDPIVNVWYSVNGERLGTVMGHTGAVWCVDADWDTKHVLTG
SADNSCRLWDCETGKQLALLKTNSAVRTCGFDGFGNII MFSTDKQMGYQCFVSFFDLRDP SQIDNNEP YM
KIPCND SKITSAVWG PLGECI IAGHESGELN QYSAKSGEVLVNVKEHSRQINDIQLSRD MTMFV TASKDN
TAKLFDSTTLEHQKTFRTERPVNSAALSPNYDHVVLGGGQEAMDVTTTSTRIGKFEARFFHLAFEEEEFGR
VKGHFGPINSVAFHPDGKSYSSGGEDGYVRIHYFDPQYFEFEFEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	36.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003748
Locus ID:	8668



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UniProt ID: [Q13347](#), [Q5U0F4](#)

RefSeq Size: 1458

Cytogenetics: 1p35.2

RefSeq ORF: 975

Synonyms: eIF3-beta; eIF3-p36; EIF3S2; PRO2242; TRIP-1; TRIP1

Summary: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i 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 (PubMed:17581632). 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 (PubMed:25849773).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified EIF3I protein (Cat# [TP301833]). The protein was produced from HEK293T cells transfected with EIF3I cDNA clone (Cat# [RC201833]) using MegaTran 2.0 (Cat# [TT210002]).