

Recombinant Human EIF3I Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EIF3I-3218H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EIF3I MS Standard C13 and N15-labeled recombinant protein (NP_003748) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
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.
Molecular Mass	36.5 kDa
AA Sequence	MKPILLQGHERSITQIKYNREGDLLFTVAKDPIVNVWYSVNGERLGTVMGHTGAVWC

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VDADWDTKHVLTGSADNSCRLWDCETGKQLALLKTNSAVRTCGFDFGGNIIMFSTD
KQMGYQCFVSFFDLRDPSQIDNNEPYMKIPCNDKITSASVWGPLGECIIAGHESGEL
NQYSAKSGEVLVNVKEHSRQINDIQLSRDMTMFVTASKDNTAKLFDSTTLEHQKTFR
TERPVNSAALSPNYDHVVLGGGQEAMDVTSTTRIGKFEARFFHLAFEEEEFGRVKG
HFGPINSVAFHPDGKSYSSGGEDGYVRIHYFDPQYFEFEFEATRTRPLEQKLISEED
LAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name EIF3I eukaryotic translation initiation factor 3 subunit I [Homo sapiens (human)]

Official Symbol EIF3I

Synonyms EIF3I; eukaryotic translation initiation factor 3, subunit I; EIF3S2, eukaryotic translation initiation factor 3, subunit 2 beta, 36kDa; eukaryotic translation initiation factor 3 subunit I; eIF3 beta; eIF3 p36; eIF3i; TRIP 1; eIF-3-beta; predicted protein of HQ2242; TGFbeta receptor-interacting protein 1; TGF-beta receptor-interacting protein 1; eukaryotic translation initiation factor 3 subunit 2; eukaryotic translation initiation factor 3, subunit 2 beta, 36kDa; eukaryotic translation initiation factor 3, subunit 2 (beta, 36kD); TRIP1; EIF3S2; TRIP-1; PRO2242; eIF3-p36; eIF3-beta;

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Gene ID	8668
mRNA Refseq	NM_003757
Protein Refseq	NP_003748
MIM	603911
UniProt ID	Q13347
SDS-PAGE	