# Recombinant Human eukaryotic translation initiation factor 3, subunit I, His-tagged

**Cat. No.** EIF3I-310H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | EIF3I, 1-325aa, Human, His tag, E.coli |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-325 a.a. |
| **Description** | EIF3I is a 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. Recombinant human EIF3I protein, fused to His-tag at N-terminus, was expressed in E.coli. |
| **Form** | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.4M Urea |
| **Molecular Mass** | 38.9kDa (348aa) |
| **AA Sequence** | MGSSHHHHHH SSGLVPRGSH MGSMKPILLQ GHERSITQIK YNREGDLLFT |

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| | VAKDPIVNVW YSVNGERLGT YMGHTGAVWC VDADWDTKHV LTGSADNSCR LWDCETGKQL ALLKTNSAVR TCGFDFGGNI IMFSTDKQMG YQCFVSFFDL RDPSQIDNNE PYMKIPCNDS KITSAVWGPL GECIIAGHES GELNQYSAKS GEVLVNVKEH SRQINDIQLS RDMTMFVTAS KDNTAKLFDS TTLEHQKTFR TERPVNSAAL SPNYDHVVLG GGQEAMDVTT TSTRIGKFEA RFFHLAFEEE FGRVKGHFGP INSVAFHPDG KSYSSGGEDG YVRIHYFDPQ YFEFEFEA |
| **Purity** | >90% by SDS - PAGE |
| **Storage** | Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles. |
| **Concentration** | 1.0 mg/ml (determined by Bradford assay) |

## GENE INFORMATION

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| **Gene Name** | EIF3I eukaryotic translation initiation factor 3, subunit I [ Homo sapiens ] |
| **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; |
| **Gene ID** | 8668 |
| **mRNA Refseq** | NM_003757 |

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| **Protein Refseq** | NP_003748 |
| **MIM** | 603911 |
| **UniProt ID** | Q13347 |
| **Chromosome Location** | 1p34.1 |
| **Pathway** | Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S, organism-specific biosystem; Cap-dependent Translation Initiation, organism-specific biosystem; Eukaryotic Translation Initiation, organism-specific biosystem; Formation of a pool of free 40S subunits, organism-specific biosystem; Formation of the ternary complex, and subsequently, the 43S complex, organism-specific biosystem; GTP hydrolysis and joining of the 60S ribosomal subunit, organism-specific biosystem; Gene Expression, organism-specific biosystem; |
| **Function** | protein binding; contributes_to translation initiation factor activity; translation initiation factor activity; translation initiation factor activity; |

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