

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

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

SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VAKDPIVNVW YSVNGERLGT YMGHTGAVWC VDADWDTKHV LTGSADNSCR
 LWDCETGKQL ALLKTNSAVR TCGFDFGGNI IMFSTDKQMG YQCFVSFFDL
 RDPSQIDNNE PYMKIPCNDK KITSVWGWPL GECIAGHES GELNQYSAKS
 GEVLVNVKEH SRQINDIQLS RDMTMFVTAS KDNTAKLFDS TTLEHQKTFR
 TERPVNSAAL SPNYDHSVVLG 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

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;