

Recombinant human eIF-3 beta/EIF3I protein

Catalog Number: ATGP2393

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-325aa

UniProt No.

Q13347

NCBI Accession No.

NP_003748

Alternative Names

C3orf68, eIF3-beta, eIF-3-beta, eIF3i, eIF3-p36, EIF3S2, Eukaryotic translation initiation factor 3 subunit 2, Eukaryotic translation initiation factor 3 subunit 2 beta 36kDa, Eukaryotic translation initiation factor 3 subunit I, PRO2242, TGF-beta receptor-interacting protein 1, TRIP1, TRIP-1

PRODUCT SPECIFICATION

Molecular Weight

38.9 kDa (348aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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*.

Amino acid Sequence

MGSSHHHHHHH SGLVPRGSH MGSMKPILLQ GHERSITQIK YNREGDLLFT VAKDPIVNVW YSVNGERLGT YMGHTGAVWC
VDADWDTKHV LTGSADNSCR LWDCETGKQL ALLKTNSAVR TCGDFDGGNI IMFSTDKQMG YQCFVSFFDL RDPSQIDNNE
PYMKIPCND S KITSAVWG PL GECIIAGHES GELNQYSAKS GEVLVNVKEH SRQINDIQLS RDMTMFVTAS KDNTAKLFDS
TTLEHQKTFR TERPVNSAAL SPNYDHVVLG GGQEAMDVTT TSTRIGKFEA RFFHLAFEEE FGRVKGHFGP INSVAFHPDG
KSYSSGGEDG YVRIHYFDPQ YFEFEFEA

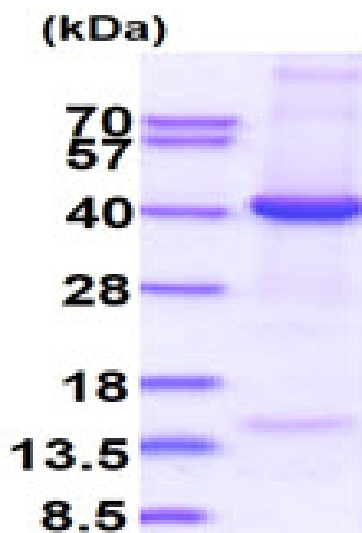
General References

Proshkin, S.A., et al. (2011) *Biochemistry Mosc.* 76 (8), 976-980

Perez, R.E., et al. (2011) *Am. J. Physiol. Lung Cell Mol. Physiol.* 300 (5), L799-L807

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)