

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

Recombinant human eIF-3 beta/EIF3I protein

Catalog Number: ATGP2393

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

MGSSHHHHHH SGLVPRGSH MGSMKPILLQ GHERSITQIK YNREGDLLFT VAKDPIVNVW YSVNGERLGT YMGHTGAVWC
VDADWDTKHV LTGSADNSCR LWDCEGKQL ALLKTNSAVR TCGDFGGNI IMFSTDQMG YQCFVSFFDL RDPSQIDNNE
PYMKPCNDS KITSVWGPL GECIIAGHES GELNQYSAKS GEVLNVKEH SRQINDIQLS RDMTMFVTAS KDNTAKLFDS
TTLEHQKTER TERPVNSAAL SPNYDHVVLG GGQEAMDVT TSTRIGKFEA RFFHLAFEEE FGRVKGHFGP INSVAFHPDG
KSYSSGGEDG YVRIHYFDPQ YFEFEFEA

General References

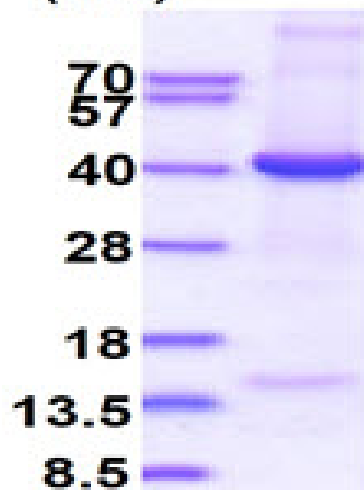
Proshkin,S.A., et al. (2011) Biochemistry Mosc. 76 (8), 976-980

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

DATA

SDS-PAGE

(kDa)



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

15% SDS-PAGE (3ug)