Recombinant human eIF-3 beta/EIF3I protein

Catalog Number: ATGP3875

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
1-325aa

UniProt No.
Q13347

NCBI Accession No.
NP_003748.1

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
37.3 kDa (331aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 1mM DTT, 40% glycerol

Purity
> 90% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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, also known as eukaryotic translation initiation factor 3 subunit I, is a multiprotein complex that functions during the initiation phase of eukaryotic translation. This protein is one out of 13 subunits of the mammalian

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EIF3 complex which associated with the 40S ribosome and facilitates the formation of 43S pre-initiation complex. This complex stimulates nearly all steps of translation initiation. These factors also appear to participate in other phases of translation, such as recycling, where it promotes the splitting of post-termination ribosomes. Also, it is shown to act as a signaling transducer by bind to and activating AKT1 through preventing PP2A-induced AKT1 dephosphorylation in tumor cells. Recombinant Human EIF3I, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

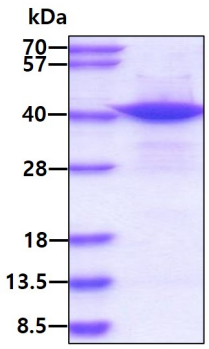
MKPILLQGHE RSITQIKYNR EGDLLFTVAK DPIVNVWYSV NGERLGTYMG HTGAVWCVDA DWDTKHVLTG SADNSCRLWD CETGKQLALL KTNSAVRTCG FDFGGNIIMF STDKQMGYQC FVSFFDLRDP SQIDNNEPYM KIPCNDSKIT SAVWGPLGEC IIAGHESGEL NQYSAKSGEV LVNVKEHSRQ INDIQLSRDM TMFVTASKDN TAKLFDSTTL EHQKTFRTER PVNSAALSPN YDHVVLGGGQ EAMDVTTTST RIGKFEARFF HLAFEEEFGR VKGHFGPINS VAFHPDGKSY SSGGEDGYVR IHYFDPQYFE FEFEA<HHHHH H>

General References

Mayeur GL., et al, (2003) Eur. J. Biochem. 270:4133-4139.
Pan W., et al, (2017) Vet. Microbiol. 212:59-66.

DATA

SDS-PAGE



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