



LD Biopharma, Inc.
9924 Mesa Rim Road Suite B
San Diego, CA 92121
Tel: 858-876-8266
<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human EIF3I Protein
Catalog Number: hRP-0839
Manufacturer: LD Biopharma, Inc.

Introduction

Human eukaryotic translation initiation factor 3, subunit I (EIF3I) is the largest of the EIFs. It consists of at least 10 nonidentical subunits in mammals. In yeast *S. cerevisiae* the p39 subunit contains WD repeats; these are thought to mediate protein-protein interactions. The p39 protein appears to be essential for maintaining the integrity of the yeast EIF3 complex. The mammalian EIF3I subunit is homologous to yeast p39. Recent data indicated that EIF3I is a phosphorylation target of the TGF- β type II receptor kinase, which plays an important role in TGF- β 1 induced epithelial-mesenchymal transition.

Full-length human EIF3I (325aa) gene was constructed with 15 aa N-terminal T7 tag and expressed in *E. coli* as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: EIF3I (eIF-3-beta; eIF3-p36; EIF3S2; PRO2242; TRIP1)
Accession Number: NP_003748
Species: Human
Size: 50 μ g / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Proshkin, S.A., et al., *A minor isoform of the human RNA polymerase II subunit hRPB11 (POLR2J) interacts with several components of the translation initiation factor eIF3.* Biochemistry Mosc. 76 (8), 976-980 (2011)



LD Biopharma, Inc.
9924 Mesa Rim Road Suite B
San Diego, CA 92121
Tel: 858-876-8266
<http://www.ldbiopharma.com>

Perez,R.E., et al., *TRIP-1 regulates TGF-beta1-induced epithelial-mesenchymal transition of human lung epithelial cell line A549*. Am. J. Physiol. Lung Cell Mol. Physiol. 300 (5), L799-L807 (2011)

Applications

1. May be used for in vitro TGFb1 mediated EMT regulation study with intracellular delivery of this protein.
2. As soluble / native protein, may be used as enzymatic substrate protein for kinase and ubiquitin assay development.
3. May be used for mapping EIF3I protein-protein interaction.
4. May be used as antigen for specific antibody development.

Quality Control

1. Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGEFMKPILLQGHERSITQIKYNREGDLLFTVAKDPIVNVWYSVNGERLGTYM
GHTGAVWCVDADWDTKHVLTGSADNSCRLWDCETGKQLALLKTNSAVRTC GFDFGGNIIMFSTD
KQMGYQCFVSFFDLRDP SQIDNNEPYMKIPCNDSKITSAVWGPLGECIIAGHESGELNQYSAKS
GEVLVNVKEHSRQINDIQLSRDMTMFVTASKDNTAKLFDSTTLEHQKTFRTERPVNSAALSPNY
DHVVLGGGQEAMDVTTTSTRIGKFEARFFHLAFEEEFGRVKGHFGPINSVAFHPDGKSYSSGGE
DGYVRIHYFDPQYFEFEFEA