Product Data Sheet

Product Name:	EIF3I Human, Sf9
Cat. No.:	GP26283
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	eIF3-beta, eIF3-p36, EIF3S2, PRO2242, TRIP-1, TRIP1, Eukaryotic translation initiationfactor 3 subunit I, eIF3i, TGF-beta receptor-interacting protein 1, eIF-3-beta.		
Amino Acid Sequence	MKPILLQGHE RSITQIKYNR EGDLLFTVAK DPIVNVWYSV NGERLGTYMG HTGAVWCVDADWDTKHVLTG SADNSCRLWD CETGKQLALL KTNSAVRTCG FDFGGNIIMF STDKQMGYQCFVSFFDLRDP SQIDNNEPYM KIPCNDSKIT SAVWGPLGEC IIAGHESGEL NQYSAKSGEVLVNVKEHSRQ INDIQLSRDM TMFVTASKDN TAKLFDSTTL EHQKTFRTER PVNSAALSPNYDHVVLGGGQ EAMDVTTTST RIGKFEARFF HLAFEEEFGR VKGHFGPINS VAFHPDGKSY SSGGEDGYVR IHYFDPQYFE FEFEAHHHHH H.		
Formulation	EIF3I protein solution (0.25mg/ml) 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 40% Glycerol and 1mM DTT.		

Introduction

Eukaryotic translation initiation factor 3, subunit I (EIF3I) is part of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is essential for numerous steps in the initiation of protein synthesis. The eIF-3 complex links 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 essential for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. Among the diseases associated with EIF3I are clonorchiasis, and tonsillitis.

Stability

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

EIF3I Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 331 amino acids (1-325 a.a) and having a molecular mass of 37.3kDa (Migrates at 40-57kDa on SDS-PAGE under reducing conditions).EIF3I is fused to an 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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