Proteins

Product Data Sheet

EIF3G Protein, Human (His-SUMO)

Cat. No.: HY-P700506

Synonyms: eukaryotic translation initiation factor 3 subunit G; EIF3S4; EIF3-P42; eIF3-p44; eIF3-delta;

> eukaryotic translation initiation factor 3 subunit G; eukaryotic translation initiation factor 3 RNA-binding subunit; eukaryotic translation initiation factor 3 subunit p42; eukaryotic

translation initiation factor 3, subunit 4 delta, 44kDa

<1 EU/µg, determined by LAL method.

Species: Human Source: E. coli

Accession: O75821 (P2-N320)

Gene ID: 8666 Molecular Weight: 51.5 kDa

PROPERTIES

AA Sequence					
73.004.000	PTGDFDSKPS	WADQVEEEGE	DDKCVTSELL	KGIPLATGDT	
	SPEPELLPGA	PLPPPKEVIN	GNIKTVTEYK	IDEDGKKFKI	
	VRTFRIETRK	ASKAVARRKN	WKKFGNSEFD	PPGPNVATTT	
	VSDDVSMTFI	TSKEDLNCQE	EEDPMNKLKG	QKIVSCRICK	
	GDHWTTRCPY	KDTLGPMQKE	LAEQLGLSTG	EKEKLPGELE	
	PVQATQNKTG	KYVPPSLRDG	ASRRGESMQP	NRRADDNATI	
	RVTNLSEDTR	ETDLQELFRP	FGSISRIYLA	KDKTTGQSKG	
	FAFISFHRRE	DAARAIAGVS	GFGYDHLILN	VEWAKPSTN	
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.				

It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O.

recommended to freeze aliquots at -20°C or -80°C for extended storage.

Room temperature in continental US; may vary elsewhere.

Shipping

Endotoxin Level

Reconsititution

Storage & Stability

Background

DESCRIPTION

The EIF3G protein functions as an RNA-binding component within the eukaryotic translation initiation factor 3 (eIF-3) complex, a crucial player in various steps of protein synthesis initiation. The eIF-3 complex, associated with the 40S ribosome, facilitates the recruitment of essential factors, such as eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi, and eIF-5, to form the 43S pre-initiation complex (43S PIC). Subsequently, EIF3G, as part of the eIF-3 complex, promotes mRNA recruitment to

Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is

the 43S PIC and scanning for AUG recognition. Furthermore, it plays a key role in the disassembly and recycling of post-termination ribosomal complexes, preventing premature joining of the 40S and 60S ribosomal subunits before initiation. The eIF-3 complex, including EIF3G, selectively targets and initiates translation of specific mRNAs involved in cell proliferation, influencing processes like cell cycling, differentiation, and apoptosis. Through different modes of RNA stem-loop binding, EIF3G can exert either translational activation or repression. In the context of microbial infection, such as FCV infection, EIF3G is implicated in the ribosomal termination-reinitiation event leading to the translation of specific viral proteins.

Caution: Product has not been fully validated for medical applications. For research use only.

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