

Recombinant Human Eukaryotic Translation Initiation Factor 3, Subunit J, His-tagged

Cat. No. EIF3J-4733H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human EIF3J protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Species

Human

Source

Human

Description

EIF3J (Eukaryotic translation initiation factor 3 subunit J) belongs to the EIF-3 subunit J family. EIF3 plays a central role in binding of initiator methionyl-tRNA and mRNA to the 40S ribosomal subunit to form the 40S initiation complex. EIF3J binds to the aminoacyl (A) site and mRNA entry channel of the 40S subunit, placing EIF3J directly in the ribosomal decoding center. EIF3J also interacts with eIF1A and reduces 40S subunit affinity for mRNA. A high affinity for mRNA is restored upon recruitment of initiator tRNA, even though EIF3J remains in the mRNA-binding cleft in the presence of tRNA.

Form

Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

Molecular Weight

24.0kDa (210aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Purity

> 90% by SDS - PAGE

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Concentration	0.5mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MKISEKKKIA EKIKEKERQQ KKRQEEIKKR LEEPEEPKVL TPEEQLADKL RLKLLQEESD LELAKETFGV NNAVYGDAM NPSSRDDFTE FGKLLKDKIT QYEKSLYYAS FLEVLVRDVC ISLEIDDLKK ITNSLTVLCS EKQKQEKQSK AKKKKKGVVP GGGLKATMKD DLADYGGYDG GYVQDYEDFM
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Activation of the mRNA upon binding of the cap-binding complex and eIFs, and subsequent binding to 43S; Cap-dependent Translation Initiation; Eukaryotic Translation Initiation; Formation of a pool of free 40S subunits; Formation of the ternary complex, and subsequently; GTP hydrolysis and joining of the 60S ribosomal subunit; Gene Expression; L13a-mediated translational silencing of Ceruloplasmin expression
GENE INFORMATION	
Gene Name	EIF3J eukaryotic translation initiation factor 3, subunit J [Homo sapiens]
Official Symbol	EIF3J
Synonyms	EIF3J; EIF3S1; eIF3-p35; eIF3-alpha; eukaryotic translation initiation factor 3 subunit J; eIF3 p35; eIF-3-alpha; OTTHUMP00000161809; OTTHUMP00000237165; OTTHUMP00000237166; eukaryotic translation initiation factor 3 subunit 1; eukaryotic translation initiation factor 3, subunit 1 alpha, 35kDa; eukaryotic translation initiation factor 3, subunit 1 (alpha, 35kD)
Gene ID	8669

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mRNA Refseq	NM_003758
Protein Refseq	NP_003749
MIM	603910
UniProt ID	O75822
Chromosome Location	15q21.1
Function	protein binding; contributes_to translation initiation factor activity

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