

**AR50097PU-N****Human EIF3J / EIF3S1 (70-258, His-tag) - Purified****Alternate names:**

Eukaryotic translation initiation factor 3 subunit 1, Eukaryotic translation initiation factor 3 subunit J, eIF-3-alpha, eIF3 p35

**Quantity:**

0.25 mg

**Concentration:**

0.5mg/ml (determined by Bradford assay)

**Background:**

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.

**Uniprot ID:**

[O75822](#)

**NCBI:**

[NP\\_003749](#)

**GenelD:**

[8669](#)

**Species:**

Human

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >90% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 200mM NaCl

**Description:**

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

**AA Sequence:**

MGSSHHHHHH SGLVPRGSH MKISEKKKIA EKIKEKERQQ KKRQEEIKKR LEEPEEPKVL  
TPEEQLADKL RLKKLQEEESD LELAKETFGV NNAVYGYDAM NPSSRDDDFTE FGKLLKDKIT  
QYEKSLYYAS FLEVLVRDVC ISLEIDDLKK ITNSLTVLCS EKQKQEKQSK AKKKKKGVVP  
GGGLKATMKD DLADYGGYDG GYVQDYEDFM

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

**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

Fraser CS, et al. (2007) Mol Cell. 26(6):811-9. Block K.L., et al. (1998) J. Biol. Chem. 273:31901-31908

Pictures:

