
Product Data Sheet

Product Name: EIF3J Human

Cat. No.: GP23383

Batch No.: 1

Product Data

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|---------------------|--|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Eukaryotic translation initiation factor 3 subunit J; Eukaryotic translation initiation factor 3 subunit 1; eIF-3-alpha; eIF3 p35; EIF3J; EIF3S1; eIF3-alpha. | | |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MKISEKKKIA EKIKEKERQQ KKRQEEIKKR LEEPEEPKVL TPEEQLADKL RLKKLQEEED LELAKETFGV NNAVYGIDAM NPSSRDDFTE FGKLLKDKIT QYEKSLYYAS FLEVLVRDVC ISLEIDDLKK ITNSLTVLCS EKQKQEKQSK AKKKKKGVVP GGGLKATMKD DLADYGGYDG GYVQDYEDFM. | | |
| Formulation | The EIF3J solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 10% glycerol and 200mM NaCl. | | |

Introduction

Eukaryotic translation initiation factor 3 subunit J (EIF3J) is a member of the EIF-3 subunit J family. EIF3 has a crucial role in binding of initiator methionyl-tRNA and mRNA to the 40S ribosomal subunit to produce the 40S initiation complex. EIF3J binds to the aminoacyl (A) site and mRNA access channel of the 40S subunit, setting EIF3J directly in the ribosomal decoding center. In addition, EIF3J interacts with eIF1A and reduces 40S subunit affinity for mRNA. An elevated affinity for mRNA is restored upon enlistment of initiator tRNA, despite the fact EIF3J remains in the mRNA-binding cleft in the presence of tRNA.

Stability

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.

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

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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Background

EIF3J Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 210 amino acids (70-258) and having a molecular mass of 24kDa (Molecular weight on SDS-PAGE will appear higher). EIF3J is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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