

## 32-3736: EIF4A3 Recombinant Protein

### Alternative Name :

Eukaryotic initiation factor 4A-III,eIF-4A-III,eIF4A-III,ATP-dependent RNA helicase DDX48,ATP-dependent RNA helicase eIF4A-3,DEAD box protein 48,Eukaryotic initiation factor 4A-like NUK-34,Eukaryotic translation initiation factor 4A isoform 3,

### Description

Source : Escherichia Coli. EIF4A3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 435 amino acids (1-411 a.a.) and having a molecular mass of 49.4kDa. EIF4A3 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Eukaryotic initiation factor 4A-III (EIF4A3) is a member of the DEAD box helicase family and eIF4A subfamily. DEAD box proteins, distinguished by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. These proteins are involved in several cellular processes including alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. EIF4A3 is a part of a splicing-dependent multiprotein exon junction complex (EJC) accumulated at splice junction on mRNAs. Based upon their distribution patterns, some members of the DEAD box helicase family are thought to be involved in embryogenesis, spermatogenesis, and cellular growth and division.

### Product Info

**Amount :** 20 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** EIF4A3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 30% glycerol and 200mM NaCl.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SGLVPRGSH MGSHMATTAT MATSGSARKR LLKEEDMTKV EFETSEEVDV  
TPTFDTMGLR EDLLRGIYAY GFEEKPSAIQQ RAIKQIIKGR DVIAQSQSGT GKTATFSISV LQCLDIQVRE  
TQALILAPTR ELAVQIQKGL LALGDYMNQVQ CHACIGGTNV GEDIRKLDYG QHVVAGTPGR VFDMIRRRSL  
RTRAIKMLVL DEADEMLNKG FKEQIYDVYR YLPPATQVVL ISATLPHEIL EMTNKFMTDP IRILVKRDEL  
TLEGIKQFFV AVEREEWKFD TLCPLYDTLT ITQAVIFCNT KRKVDWLTEK MREANFTVSS MHGDMPPQKER  
ESIMKEFRSG ASRVLISTDV WARGLDVPQV SLIINYDLPN NRELYIHRIG RSGRYGRKGV AINFKVNDI  
RILRDIEQYY STQIDEMPMN VADLI.