Product Data Sheet

Product Name:	EIF4A3 Human
Cat. No.:	GP23384
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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; Nuclear matrix protein 265; NMP 265; hNMP 265; EIF4A3; DDX48; KIAA0111; NUK34; NMP265; eIF4AIII.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMATTAT MATSGSARKR LLKEEDMTKV EFETSEEVDV TPTFDTMGLR EDLLRGIYAY GFEKPSAIQQ RAIKQIIKGR DVIAQSQSGT GKTATFSISV LQCLDIQVRE TQALILAPTR ELAVQIQKGL LALGDYMNVQ CHACIGGTNV GEDIRKLDYG QHVVAGTPGR VFDMIRRRSL RTRAIKMLVL DEADEMLNKG FKEQIYDVYR YLPPATQVVL ISATLPHEIL EMTNKFMTDP IRILVKRDEL TLEGIKQFFV AVEREEWKFD TLCDLYDTLT ITQAVIFCNT KRKVDWLTEK MREANFTVSS MHGDMPQKER ESIMKEFRSG ASRVLISTDV WARGLDVPQV SLIINYDLPN NRELYIHRIG RSGRYGRKGV AINFVKNDDI RILRDIEQYY STQIDEMPMN VADLI.		
Formulation	EIF4A3 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 30% glycerol and 200mM NaCl.		

Introduction

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

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members of the DEAD box helicase family are thought to be involved in embryogenesis, spermatogenesis, and cellular growth and division.

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.

Background

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.

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