

Recombinant Human Eukaryotic Translation Initiation Factor 4A3, His-tagged

Cat. No. EIF4A3-1334H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human EIF4A3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	EIF4A3 (Eukaryotic initiation factor 4A-III) belongs to the DEAD box helicase family and eIF4A subfamily. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. EIF4A3 is a component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 2 mM DTT, 30% glycerol, 200 mM NaCl.
Molecular Weight	49.4 kDa (435 aa), confirmed by MALDI-TOF
Purity	> 95 % by SDS-PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)

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Sequences of amino acids

MGSSHHHHHH SSGLVPRGSH MGSMMATTAT MATSGSARKR LLKEEDMTKV
 EFETSEEVDV TPTFDTMGLR EDLLRGIYAY GFEKPSAIQQ RAIKQIIKGR
 DVIAQSQSGT GKTATFSISV LQCLDIQVRE TQALILAPTR ELAVQIQKGL
 LALGDYMNQVQ CHACIGGTNV GEDIRKLDYG QHVVAGTPGR VFDMIRRRSL
 RTRAIKMLVL DEADEMLNKG FKEQIYDVYR YLPPATQVVL ISATLPHEIL
 EMTNKFMTDP IRILVKRDEL TLEGIKQFFV AVEREEWKFD TLCDLYDTLT
 ITQAVIFCNT KRKVDWLTEK MREANFTVSS MHGDMPQKER ESIMKEFRSG
 ASRVLISTDV WARGLDVPQV SLIINYDLPN NRELYIHRIG RSGRYGRKGV
 AINFKVNDI RILRDIEQYY STQIDEMPMN VADLI

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

RNA transport; RNA transport; Spliceosome; TNF-alpha/NF-kB Signaling Pathway; mRNA surveillance pathway

GENE INFORMATION

Gene Name

EIF4A3 eukaryotic translation initiation factor 4A3 [Homo sapiens]

Official Symbol

EIF4A3

Synonyms

EIF4A3; eukaryotic translation initiation factor 4A3; DDX48; NUK34; NMP265; KIAA0111; MGC10862; eIF4AIII; DKFZp686O16189; eukaryotic initiation factor 4A-III; hNMP 265; eIF-4A-III; DEAD box protein 48; nuclear matrix protein 265; ATP-dependent RNA helicase DDX48; ATP-dependent RNA helicase eIF4A-3; eukaryotic initiation factor 4A-like NUK-34; eukaryotic translation initiation factor 4A, isoform 3; DEAD (Asp-Glu-Ala-Asp) box polypeptide 48

Gene ID

9775

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mRNA Refseq	NM_014740
Protein Refseq	NP_055555
MIM	608546
UniProt ID	P38919
Chromosome Location	17q25.3
Function	ATP binding; ATP-dependent RNA helicase activity; RNA binding; helicase activity; hydrolase activity; nucleotide binding; poly (A) RNA binding; protein binding
PDBrendering based on 2hxy.	

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