

Recombinant Human EIF4A3, His-tagged

Cat. No. EIF4A3-27410TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 77-411 of Human eIF4A3 with N terminal His tag; 335 amino acids, 41kDa.
Species	Human
Source	E.coli
ProteinLength	77-411 a.a.
Description	This gene encodes a member of the DEAD box protein family. 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. Based on their distribution patterns, some members of this family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division. The protein encoded by this gene is a nuclear matrix protein. Its amino acid sequence is highly similar to the amino acid sequences of the translation initiation factors eIF4AI and eIF4AII, two other members of the DEAD box protein family.
Conjugation	HIS
Tissue specificity	Ubiquitously expressed.
Form	Lyophilised:Reconstitute with 155 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Store at 4°C. Upon reconstitution store at -80°C.
Sequences of amino acids	DVIAQSQSGTGKTATFSISVLQCLDIQVRETQALILAPTR ELAVQIQKGLLALGDYMN VQCHACIGGTNVGEDIRKLD YGQHV VAGTPGRVFD MIRRRSLRTRAIKMLVLDEAD EMLN KGFKEQIYDVYRYLPPATQVVLISATLPHEILEMTNKF MTDPIRILVKRDELTL GIKQFFVAVEREEWKFDLCLD LYDTLTITQAVIFCNTKRKVDWLTEKMREANFTVSS MHGD MPQKERESIMKEFRSGASRVLISTDVWARGLDVPQVSL IINYDLPNNRELYI HRIGRSGRYGRKGVAINFVKNDI RILRDIEQYYSTQIDEMPMNVADLI
Sequence Similarities	Belongs to the DEAD box helicase family. eIF4A subfamily. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.

GENE INFORMATION

Gene Name	EIF4A3 eukaryotic translation initiation factor 4A3 [Homo sapiens]
Official Symbol	EIF4A3
Synonyms	EIF4A3; eukaryotic translation initiation factor 4A3; DDX48, DEAD (Asp Glu Ala Asp) box polypeptide 48 , eukaryotic translation initiation factor 4A, isoform 3; eukaryotic initiation factor 4A-III; EIF4AIII; KIAA0111;
Gene ID	9775
mRNA Refseq	NM_014740
Protein Refseq	NP_055555

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MIM	608546
Uniprot ID	P38919
Chromosome Location	17q25.3
Pathway	Exon junction complex (EJC), organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of RNA, organism-specific biosystem; Metabolism of mRNA, organism-specific biosystem; Nonsense Mediated Decay Enhanced by the Exon Junction Complex, organism-specific biosystem;
Function	ATP binding; ATP-dependent RNA helicase activity; RNA binding; helicase activity; hydrolase activity;

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