Recombinant Human EIF4A3, GST-tagged

Cat. No. EIF4A3-12377H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EIF4A3 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-411a.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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

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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; NMP 265; hNMP 265; eIF4A-III; eIF-4A-III; DEAD box protein 48; nuclear matrix protein 265; ATP-dependent RNA helicase DDX48; ATP-dependent RNA helicase eIF4A-3; DEAD (Asp-Glu-Ala-Asp) box polypeptide 48; eukaryotic initiation factor 4A-like NUK-34; eukaryotic translation initiation factor 4A, isoform 3; DDX48; NUK34; NMP265; eIF4AIII; MGC10862; DKFZp686O16189;
Gene ID	9775
mRNA Refseq	NM_014740
Protein Refseq	NP_055555
MIM	608546
UniProt ID	P38919
Chromosome Location	17q25.3
Pathway	Antiviral mechanism by IFN-stimulated genes, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Deadenylation of mRNA, organism-specific biosystem; Deadenylation-dependent mRNA decay, organism-

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	specific biosystem; Exon junction complex (EJC), organism-specific biosystem; Gene Expression, organism-specific biosystem; ISG15 antiviral mechanism, organism-specific biosystem;
Function	ATP binding; ATP-dependent RNA helicase activity; RNA binding; helicase activity; hydrolase activity; nucleotide binding; poly(A) RNA binding; protein binding;

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