Recombinant Human EIF4A1 Protein, His-tagged

Cat. No. EIF4A1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant EIF4A1 protein was expressed in E.coli as the full length protein (accession number NP_001407.1) with an N-terminal 6xHis Tag.
Species	Human
Source	E.coli
Description	EIF4A1 (Eukaryotic Translation Initiation Factor 4A, Isoform 1), also called as EIF4A or DDX2A, is a ATP dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition. It is required for mRNA binding to ribosome. In the current model of translation initiation, eIF4A unwinds RNA secondary structures in the 5'-UTR of mRNAs which is necessary to allow efficient binding of the small ribosomal subunit, and subsequent scanning for the initiator codon. This protein is involved in the binding of mRNA to 40S subunit of ribosome, ubiquitous with high expression in skeletal muscle and ovary. The helicase activity of EIF4A1 and function in translation are inhibited by interaction with PDCD4.
Molecular Mass	49.7 kDa
Purity	> 90%
Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 centigrade to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

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Concentration	0.8 μg/μL
Full Length	Full L.

GENE INFORMATION

Gene Name	EIF4A1 eukaryotic translation initiation factor 4A1 [Homo sapiens (human)]
Official Symbol	EIF4A1
Synonyms	EIF4A1; eukaryotic translation initiation factor 4A1; DDX2A; EIF4A; EIF-4A; eIF4A-I; eIF-4A-I; eukaryotic initiation factor 4A-I; ATP-dependent RNA helicase eIF4A-1; eukaryotic initiation factor 4AI; eukaryotic translation initiation factor 4A; EC 3.6.4.13
Gene ID	1973
mRNA Refseq	NM_001416
Protein Refseq	NP_001407
MIM	602641
UniProt ID	P60842
10% SDS-PAGE gel with Coomassie staining	

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