

Recombinant Human EIF4A2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EIF4A2-4364H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EIF4A2 MS Standard C13 and N15-labeled recombinant protein (NP_001958) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	ATP-dependent RNA helicase which is a subunit of the eIF4F complex involved in cap recognition and 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.
Molecular Mass	46.4 kDa
AA Sequence	MSGGSADYNREHGGPEGMDPDGVISSWNEIVDNFDDMNLKESLLRGIYAYGFEEK PSAIQQRAIIPCIKGYDVIAQAQSGTGKTATFAISILQQLEIEFKETQALVLAPTRELAQ QIQKVILALGDYMGATCHACIGGTNVRNEMQKLQAEAPHIVVGTPGRVFDMLNRRYL SPKWIKMFVLDEADEMLSRGFKDQIYEIFQKLNTSIQVVLLSATMPTDVLEVTKKFMR DPIRILVKKEELTLEGIKQFYINVEREEWKLDTLCDLYETLTITQAVIFLNTRRKVDWLT EKMHardFTVSALHGDMQKQKRDVIMREFRSGSSRVLITDILLARGIDVQQVSLVIN YDLPTNRENIHRIGRGGFRGRKGVAINFVTEEDKRILRDIETFYNTTVEEMPMNVAD LITRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

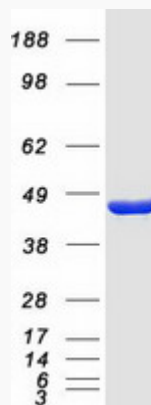
Gene Name	EIF4A2 eukaryotic translation initiation factor 4A2 [Homo sapiens (human)]
Official Symbol	EIF4A2
Synonyms	EIF4A2; eukaryotic translation initiation factor 4A2; EIF4F, eukaryotic translation initiation factor 4A, isoform 2; eukaryotic initiation factor 4A-II; BM 010; DDX2B; EIF4A; ATP-dependent RNA helicase eIF4A-2; eukaryotic translation initiation factor 4A, isoform 2; EIF4F; BM-010; eIF4A-II; eIF-4A-II;
Gene ID	1974
mRNA Refseq	NM_001967
Protein Refseq	NP_001958
MIM	601102
UniProt ID	Q14240

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SDS-PAGE



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