

Product datasheet for PH303298

EIF4A1 (NM_001416) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	EIF4A1 MS Standard C13 and N15-labeled recombinant protein (NP_001407)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203298
Predicted MW:	46.2 kDa
Protein Sequence:	>RC203298 protein sequence Red=Cloning site Green=Tags(s)

MSASQDSRSRDNGPDGMEPEGVIESNWNEIVDSFDDMNLSESLLRGIYAYGFKPSAIQQRAILPCIKGY
DVIAQAQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVVMALGDYMGASCHACIGGTNV
RAEVQKLQMEAPHIIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSTQVV
LLSATMPSDVLEVTKKFMRDPIRILVKKEELTLEGIRQFYINVEREEWKLDTLCDLYETLTITQAVIFIN
TRRKVDWLTEKMHardFTVSAMHGMDQKERDVMREFRSGSSRVLITDILLARGIDVQQVSLVINYLDP
TNRENYIHRIGRGGFRGRKGVAINMVTEEDKRTLRIETFYNTSIEEMPLNVADLI

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001407</u>
RefSeq Size:	1894
RefSeq ORF:	1218
Synonyms:	DDX2A; EIF-4A; eIF-4A-I; EIF4A; eIF4A-I
Locus ID:	1973



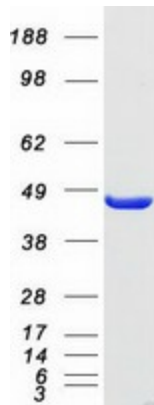
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UniProt ID: [P60842](#)

Cytogenetics: 17p13.1

Summary: 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.[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified EIF4A1 protein (Cat# [TP303298]). The protein was produced from HEK293T cells transfected with EIF4A1 cDNA clone (Cat# [RC203298]) using MegaTran 2.0 (Cat# [TT210002]).