

## EIF4A1 Protein, Human (His, Strep)

Cat. No.:	HY-P701606
Synonyms:	EIF4A1; Eukaryotic initiation factor 4A-I; eIF-4A-I; eIF4A-I; ATP-dependent RNA helicase eIF4A-1
Species:	Human
Source:	E. coli
Accession:	P60842 (M1-I406)
Gene ID:	1973
Molecular Weight:	

### PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	EIF4A2, an ATP-dependent RNA helicase, functions as a crucial subunit of the eIF4F complex, playing a key role in cap recognition and facilitating mRNA binding to the ribosome. In the prevailing model of translation initiation, EIF4A2 is instrumental in unwinding RNA secondary structures present in the 5'-UTR of mRNAs. This unwinding activity is essential to enable the efficient binding of the small ribosomal subunit and subsequent scanning for the initiator codon, a fundamental process in the initiation of translation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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