

EIF4A1 Protein, Human, Recombinant (His & Myc)

General Information

Synonyms:	eIF4A-I;Eukaryotic initiation factor 4A-I;EIF4A1;ATP-dependent RNA helicase eIF4A-1;DDX2A; eIF-4A-I;EIF4A
Protein Construction:	2-406 aa
Species:	Human
Expression Host:	E. coli
Accession:	P60842
Molecular Weight:	53.5 kDa (predicted)
AA Sequence:	SASQDSRSRDNGPDGMEPEGVIESNWNEIVDSFDDMNLSESLLRGIYAYGF EKPSAIQQRAILPCIKGYDVIA QAQSGTGKTATFAISILQQIELDLKATQALVLAAPTRELAQQIQKVMALGDYMGASCHACIGGTNVRAEVQKL QMEAPHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDV LEVTKKFMRDPIRILVKKEELTLEGIRQFYINVEREEWKDLTCLDLYETLTITQAVIFINTRRKVDWLTEKMHARD FTVSAMHGDMQKERVIMREFRSGSSRVLITDLLARGIDVQQVSLVINYDLPTNRENYIHRIGRGRFRGRK GVAINMVTEEDKRTLRLDIETFYNTSIEEMPLNVADLI

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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