

EIF4A2 Protein, Human (GST)

Cat. No.:	HY-P700526
Synonyms:	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;
Species:	Human
Source:	E. coli
Accession:	Q14240 (M1-I407)
Gene ID:	1974
Molecular Weight:	73.4 kDa

PROPERTIES

AA Sequence

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MSGGSADYNR   EHG GPEGM DP   DGVIESNWNE   IVDNFDDMNL
KESLLRGIYA   YGF EKPSAIQ   QRAIIPC IKG   YDVIAQAQSG
TGKTATFAIS   ILQ QLEIEFK   ETQALVLA PT   RELAQQIQKV
ILALGDYMG A   TCHAC IGGTN   VRNEMQKLQA   EAPHIVVGT P
GRVFDMLNRR   YLSPKWKIKMF   VLDEADEMLS   RGFKDQIYE I
FQKLNTSIQV   VLLSATMPTD   VLEVTKKFMR   DPIRILVKKE
ELTLEGIKQF   YINVEREEWK   LDTLCDLYET   LTITQAVIFL
NTRRKVDWLT   EKM HARDFTV   SALHGDM DQK   ERDVI MREFR
SGSSRVLITT   DLLARGIDVQ   QVSLVINYDL   PTNRENYIHR
IGRGGRFGRK   GVAINFVTEE   DKRILRDIET   FYNTTVEEMP
MNVADLI
  
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Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Endotoxin Level <1 EU/µg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O.

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background EIF4A2, an ATP-dependent RNA helicase, operates as a crucial subunit within the eIF4F complex, playing a pivotal role in cap

recognition and facilitating the binding of mRNA to ribosomes. In the established model of translation initiation, EIF4A2 takes on the responsibility of unwinding RNA secondary structures present in the 5'-UTR of mRNAs. This unwinding activity is essential to create a conducive environment for the efficient binding of the small ribosomal subunit and subsequent scanning for the initiator codon, thus orchestrating the intricate process of translation initiation.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA