ATP-Dependent RNA Helicase Eif4a (TIF1) Magnaporthe Oryzae Recombinant Protein

PRODUCT OVERVIEW

Product Name	ATP-dependent RNA helicase eIF4A (TIF1), Recombinant Protein
Full Product Name	Recombinant Magnaporthe oryzae ATP-dependent RNA helicase eIF4A (TIF1)
Product Gene Name	TIF1 recombinant protein
Product Synonym Gene Name	TIF1; TIF41; MGG_04400
Product Synonym Names	ATP-dependent RNA helicase eIF4A; EC=3.6.4.13; Eukaryotic initiation factor 4A; eIF-4A; Translation initiation factor 1
Sequence	MADKGLEDVP EGQIESNYDE TVDSFDEMNL KSELLRGIYA YGFERPSAIQ QRAIMPVIKG HDVIAQAQSG TGKTATFSIS VLQKIDTNVK QCQALILAPT RELAQQIQKV VVAIGDFMNI ECHACIGGTS VRDDMKALQD GPQVVVGTPG RVHDMIQRRF LKTDGMKMFV LDEADEMLSR GFTEQIYDIF QLLPQSTQVV LLSATMPQDV LEVTTKFMRD PVRILVKKDE LTLEGIKQFY IAVEKEEWKL DTLSDLYETV TITQAVIFCN TRRKVDWLTD KLTARDFTVS AMHGDMDQAQ RDLIMKEFRS GSSRVLIATD LLARGIDVQQ VSLVINYDLP ANRENYIHRI GRGGRFGRKG VAINFVTADD VRMMREIEQF YSTQIEEMPM NVADLI
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,749 Da
Sequence Positions	1-396aa; full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for A4QVP2
Species	Magnaporthe oryzae (strain 70-15 / MYA-4617 / FGSC 8958) (Rice blast fungus) (Pyricularia oryzae)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TIF1 recombinant protein	MBS1262256 is a recombinant protein targeting TIF1. Also known as Recombinant Magnaporthe oryzae ATP-dependent RNA helicase eIF4A (TIF1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TIF1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TIF1. It may not necessarily be applicable to this product.

NCBI GI #	389626723
NCBI GeneID	2677872
NCBI Accession #	XP_003711015.1

UniProt Primary Accession #	A4QVP2
UniProt Secondary Accession #	G4MKM0
UniProt Related Accession #	EDJ96104
GenBank Nucleotide #	XM_003710967.1
NCBI Official Full Name	ATP-dependent RNA helicase eIF4A
NCBI Official Symbol	MGG_04400
UniProt Protein Name	ATP-dependent RNA helicase eIF4A
UniProt Synonym Protein Names	Eukaryotic initiation factor 4A; eIF-4A; Translation initiation factor 1
Protein Family	ATP-dependent RNA helicase
UniProt Gene Name	TIF1
UniProt Synonym Gene Names	TIF41; eIF-4A
UniProt Entry Name	IF4A_MAGO7
NCBI Protein Information	ATP-dependent RNA helicase eIF4A
UniProt Comments for TIF1	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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