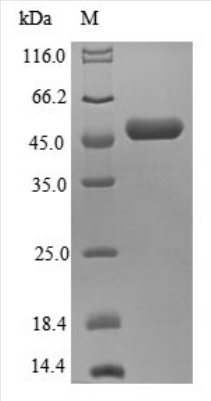
Eukaryotic Translation Initiation Factor 3 Subunit K (EIF3K) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Eukaryotic translation initiation factor 3 subunit K (EIF3K), Recombinant Protein
Full Product Name	Recombinant Human Eukaryotic translation initiation factor 3 subunit K (EIF3K)
Product Gene Name	EIF3K recombinant protein
Product Synonym Gene Name	EIF3K
Sequence	AMFEQMRANV GKLLKGIDRY NPENLATLER YVETQAKENA YDLEANLAVL KLYQFNPAFF QTTVTAQILL KALTNLPHTD FTLCKCMIDQ AHQEERPIRQ ILYLGDLLET CHFQAFWQAL DENMDLLEGI TGFEDSVRKF ICHVVGITYQ HIDRWLLAEM LGDLSDSQLK VWMSKYGWSA DESGQIFICS QEESIKPKNI VEKIDFDSVS SIMASSQ
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	51.9 kDa
Sequence Positions	2-218aa; Full Length of Mature 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.
OMIM	609596
3D Structure	ModBase 3D Structure for Q9UBQ5
Species	Homo sapiens (Human)
Production Note	**Special Offer:** The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our **technical support team** **or email to** **support@mybiosource.com** for more details.
Product Categories/Family for EIF3K recombinant protein	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.

Related Product Information for EIF3K recombinant protein	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis. The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation. The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression
Product References and Citations for EIF3K recombinant protein	"Global, in vivo, and site-specific phosphorylation dynamics in signaling networks." Olsen J.V., Blagoev B., Gnad F., Macek B., Kumar C., Mortensen P., Mann M. Cell 127:635-648(2006)
Other Notes	Small volumes of EIF3K 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.
Searchable Terms for EIF3K purchase	MBS1454289 is a recombinant protein targeting EIF3K. Also known as Recombinant Human Eukaryotic translation initiation factor 3 subunit K (EIF3K). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.



SDS-Page of EIF3K recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF3K. It may not necessarily be applicable to this product.

NCBI GI #	10801345
NCBI GeneID	27335
NCBI Accession #	NP_037366.1
UniProt Primary Accession #	Q9UBQ5
UniProt Secondary Accession #	Q96IQ0; Q9Y6D1; A8K0I9; B7ZAM9
UniProt Related Accession #	Q9UBQ5
GenBank Nucleotide #	NM_013234.3
NCBI Official Full Name	eukaryotic translation initiation factor 3 subunit K isoform 1
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 3 subunit K
NCBI Official Symbol	EIF3K
NCBI Official Synonym Symbols	M9; ARG134; PLAC24; PTD001; EIF3S12; HSPC029; MSTP001; PLAC-24; PRO1474; EIF3-p28
UniProt Protein Name	Eukaryotic translation initiation factor 3 subunit K
UniProt Synonym Protein Names	Eukaryotic translation initiation factor 3 subunit 12
Protein Family	Eukaryotic translation initiation factor

UniProt Gene Name	EIF3K
UniProt Synonym Gene Names	eIF3k
NCBI Protein Information	eukaryotic translation initiation factor 3 subunit K
NCBI Summary for EIF3K	The 700-kD eukaryotic translation initiation factor-3 (eIF3) is the largest eIF and contains at least 12 subunits, including EIF2S12. eIF3 plays an essential role in translation by binding directly to the 40S ribosomal subunit and promoting formation of the 40S preinitiation complex (Mayeur et al., 2003 [PubMed 14519125]).[supplied by OMIM, Mar 2008]
UniProt Comments for EIF3K	Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNAi and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).
Research Articles on EIF3K	**1.** eIF3K subunit interacts directly with the PML protein.
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