Eukaryotic Translation Initiation Factor 6 (EIF6) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Eukaryotic translation initiation factor 6 (Eif6), Recombinant Protein
Full Product Name	Recombinant Mouse Eukaryotic translation initiation factor 6 (Eif6)
Product Gene Name	Eif6 recombinant protein
Sequence	MAVRASFENN CEVGCFAKLT NAYCLVAIGG SENFYSVFEG ELSDAIPVVH ASIAGCRIIG RMCVGNRHGL LVPNNTTDQE LQHIRNSLPD SVQIRRVEER LSALGNVTTC NDYVALVHPD LDRETEEILA DVLKVEVFRQ TVADQVLVGS YCVFSNQGGL VHPKTSIEDQ DELSSLLQVP LVAGTVNRGS EVIAAGMVVN DWCAFCGLDT TSTELSVVES VFKLNEAKPS TIATSMRDSL IDSLT
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	26,511 Da
Sequence Positions	1-245, 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 O55135
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Eif6 recombinant protein	Hemidesmosomes are structures which link the basal lamina to the intermediate filament cytoskeleton. An important functional component of hemidesmosomes is the integrin beta-4 subunit (ITGB4), a protein containing two fibronectin type III domains. This protein binds to the fibronectin type III domains of ITGB4 and may help link ITGB4 to the intermediate filament cytoskeleton. The encoded protein, which is insoluble and found both in the nucleus and in the cytoplasm, can function as a translation initiation factor and prevent the association of the 40S and 60S ribosomal subunits. Multiple transcript variants encoding two different isoforms have been found for this gene.
Other Notes	Small volumes of Eif6 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 Eif6 purchase	MBS1257531 is a recombinant protein targeting Eif6. Also known as Recombinant Mouse Eukaryotic translation initiation factor 6 (Eif6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Eif6. It may not necessarily be applicable to this product.

NCBI GI #	27501448
NCBI GeneID	16418

NCBI Accession #	NP_034709.1
UniProt Primary Accession #	O55135
UniProt Related Accession #	O55135
GenBank Nucleotide #	NM_010579.2
NCBI Official Full Name	eukaryotic translation initiation factor 6
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 6
NCBI Official Symbol	Eif6
NCBI Official Synonym Symbols	CAB; eIF-6; p27BBP; Itgb4bp; imc-415; AA408895; p27(BBP); 1110004P11
UniProt Protein Name	Eukaryotic translation initiation factor 6
UniProt Synonym Protein Names	B4 integrin interactor; CAB; p27(BBP)
Protein Family	Translation initiation factor
UniProt Gene Name	Eif6
UniProt Synonym Gene Names	Itgb4bp; eIF-6
NCBI Protein Information	eukaryotic translation initiation factor 6
NCBI Summary for Eif6	The protein encoded by this gene is a eukaryotic translation initiation factor that regulates both ribosome biogenesis and translation, which are rate-limiting factors for cell growth. The encoded protein binds 60S ribosomes and prevents their association with 40S ribosomes. This gene may play a role in oncogenesis as well. [provided by RefSeq, Aug 2015]
UniProt Comments for Eif6	Binds to the 60S ribosomal subunit and prevents its association with the 40S ribosomal subunit to form the 80S initiation complex in the cytoplasm. Behaves as a stimulatory translation initiation factor downstream insulin/growth factors. Is also involved in ribosome biogenesis. Associates with pre-60S subunits in the nucleus and is involved in its nuclear export. Cytoplasmic release of TIF6 from 60S subunits and nuclear relocalization is promoted by a RACK1 (RACK1)-dependent protein kinase C activity. In tissues responsive to insulin, controls fatty acid synthesis and glycolysis by exerting translational control of adipogenic transcription factors such as CEBPB, CEBPD and ATF4 that have G/C rich or uORF in their 5'UTR (PubMed:26383020). Required for ROS-dependent megakaryocyte maturation and platelets formation, controls the expression of mitochondrial respiratory chain genes involved in reactive oxygen species (ROS) synthesis (PubMed:26391622). Involved in miRNA-mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both miRNA-mediated translational repression and miRNA-mediated cleavage of complementary mRNAs by RISC (). Modulates cell cycle progression and global translation of pre-B cells, its activation seems to be rate-limiting in tumorigenesis and tumor growth (PubMed:21665150).
Research Articles on Eif6	**1.** eIF6 relieved fibrosis/cicatrization by inhibiting the generation of VEGF to prevent the overgrowth of blood vessels and production of granulation tissues, and by regulating the MMP-2/TIMP-2 balance to promote ECM degradation and decrease its deposition.
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