Ubiquitin-Related Modifier 1 Homolog (LOC733109) Bombyx Mori Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ubiquitin-related modifier 1 homolog (LOC733109), Recombinant Protein
Full Product Name	Recombinant Bombyx mori Ubiquitin-related modifier 1 homolog
Product Gene Name	LOC733109 recombinant protein
Sequence	MAETLTVEVM FGGGAELLFN KVKRKEIALP PLKTFLPDSQ NQNWTLKELL IWLKDNLLVE REELFLKDDS VRPGILVLIN EEDWELHGQL NYELKENDKI MFISTLHGG
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	12,623 Da
Sequence Positions	1-109, 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 Q1HQ10
Species	Bombyx mori (Silk moth)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LOC733109 recombinant protein	MBS1280010 is a recombinant protein targeting LOC733109. Also known as Recombinant Bombyx mori Ubiquitin-related modifier 1 homolog. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of LOC733109 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 LOC733109. It may not necessarily be applicable to this product.

NCBI GI #	114052050
NCBI GeneID	733109
NCBI Accession #	NP_001040521.1
UniProt Primary Accession #	Q1HQ10
UniProt Related Accession #	Q1HQ10
GenBank Nucleotide #	NM_001047056.1
NCBI Official Full Name	ubiquitin-related modifier 1 homolog

NCBI Official Symbol	LOC733109
UniProt Protein Name	Ubiquitin-related modifier 1 homolog
Protein Family	Ubiquitin-related modifier
NCBI Protein Information	ubiquitin-related modifier 1 homolog
UniProt Comments for LOC733109	Acts as a sulfur carrier required for 2-thiolation of mcm5S2U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Serves as sulfur donor in tRNA 2-thiolation reaction by being thiocarboxylated (-COSH) at its C-terminus by MOCS3. The sulfur is then transferred to tRNA to form 2-thiolation of mcm5S2U. Also acts as a ubiquitin-like protein (UBL) that is covalently conjugated via an isopeptide bond to lysine residues of target proteins. The thiocarboxylated form serves as substrate for conjugation and oxidative stress specifically induces the formation of UBL-protein conjugates.
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