Protein Argonaute-1 (EIF2C1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein argonaute-1 (Eif2c1), Recombinant Protein
Full Product Name	Recombinant Mouse Protein argonaute-1 (Eif2c1) , partial
Product Gene Name	Eif2c1 recombinant protein
Product Synonym Gene Name	Eif2c1
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	97,214 Da
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 Q8CJG1
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Eif2c1 recombinant protein	This gene encodes a member of the Argonaute family of proteins which play a role in RNA interference. The encoded protein is highly basic, and contains a PAZ domain and a PIWI domain. It may interact with dicer1 and play a role in short-interfering-RNA-mediated gene silencing. This gene is located on chromosome 1 in a cluster of closely related family members including argonaute 3, and argonaute 4.
Other Notes	Small volumes of Eif2c1 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 Eif2c1 purchase	MBS1393853 is a recombinant protein targeting Eif2c1. Also known as Recombinant Mouse Protein argonaute-1 (Eif2c1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Eif2c1. It may not necessarily be applicable to this product.

NCBI GI #	953696984
NCBI GeneID	236511
NCBI Accession #	NP_001304102.1
UniProt Primary Accession #	Q8CJG1
UniProt Secondary Accession #	A1L365
UniProt Related Accession #	Q8CJG1

GenBank Nucleotide #	NM_001317173.1
NCBI Official Full Name	protein argonaute-1 isoform 1x
NCBI Official Synonym Full Names	argonaute RISC catalytic subunit 1
NCBI Official Symbol	Ago1
NCBI Official Synonym Symbols	Eif2c1
UniProt Protein Name	Protein argonaute-1
UniProt Synonym Protein Names	Argonaute RISC catalytic component 1; Eukaryotic translation initiation factor 2C 1; eIF-2C 1; eIF2C 1; Piwi/argonaute family protein meIF2C1
UniProt Gene Name	Ago1
UniProt Synonym Gene Names	Eif2c1; Argonaute1; mAgo1; eIF-2C 1; eIF2C 1
NCBI Protein Information	protein argonaute-1
NCBI Summary for Eif2c1	This gene encodes a member of the argonaute family of proteins, which associate with small RNAs and have important roles in RNA interference (RNAi) and RNA silencing. This protein binds to microRNAs (miRNAs) or small interfering RNAs (siRNAs) and represses translation of mRNAs that are complementary to them. It is also involved in transcriptional gene silencing (TGS) of promoter regions that are complementary to bound short antigene RNAs (agRNAs), as well as in the degradation of miRNA-bound mRNA targets. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. A recent study showed this gene to be an authentic stop codon readthrough target, and that its mRNA could give rise to an additional C-terminally extended isoform by use of an alternative in-frame translation termination codon. [provided by RefSeq, Nov 2015]
UniProt Comments for Eif2c1	Required for RNA-mediated gene silencing (RNAi). Binds to short RNAs such as microRNAs (miRNAs) or short interfering RNAs (siRNAs), and represses the translation of mRNAs which are complementary to them. Lacks endonuclease activity and does not appear to cleave target mRNAs. May also be required for transcriptional gene silencing (TGS) of promoter regions which are complementary to bound short antigene RNAs (agRNAs).
Research Articles on Eif2c1	**1.** up-regulated in murine macrophage RAW264.7 cells transfected by Echinococcus multilocularis miR-71
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