Trimethylguanosine Synthase (TGS1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Trimethylguanosine synthase (Tgs1), Recombinant Protein
Full Product Name	Recombinant Mouse Trimethylguanosine synthase (Tgs1) , partial
Product Gene Name	Tgs1 recombinant protein
Product Synonym Gene Name	Tgs1
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	96,790 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 Q923W1
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tgs1 recombinant protein	MBS1309139 is a recombinant protein targeting Tgs1. Also known as Recombinant Mouse Trimethylguanosine synthase (Tgs1) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Tgs1 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 Tgs1. It may not necessarily be applicable to this product.

NCBI GI #	227496324
NCBI GeneID	116940
NCBI Accession #	NP_473430.3
UniProt Primary Accession #	Q923W1
UniProt Secondary Accession #	Q6DI60; Q6PEA7; Q8R0W9; A2AJF7
UniProt Related Accession #	Q923W1
GenBank Nucleotide #	NM_054089.4
NCBI Official Full Name	trimethylguanosine synthase
NCBI Official Synonym Full Names	trimethylguanosine synthase 1

NCBI Official Symbol	Tgs1
NCBI Official Synonym Symbols	Pimt; Ncoa6ip; D4Ertd800e
UniProt Protein Name	Trimethylguanosine synthase
UniProt Synonym Protein Names	Nuclear receptor coactivator 6-interacting protein; PRIP-interacting protein with methyltransferase motif; PIMT; PIPMT
Protein Family	Probable diacyglycerol O-acyltransferase
UniProt Gene Name	Tgs1
UniProt Synonym Gene Names	Ncoa6ip; Pimt; PIMT; PIPMT
NCBI Protein Information	trimethylguanosine synthase
UniProt Comments for Tgs1	Catalyzes the 2 serial methylation steps for the conversion of the 7-monomethylguanosine (m7G) caps of snRNAs and snoRNAs to a 2,2,7-trimethylguanosine (m(2,2,7)G) cap structure. The enzyme is specific for guanine, and N7 methylation must precede N2 methylation. Hypermethylation of the m7G cap of U snRNAs leads to their concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation ().
Research Articles on Tgs1	**1.** PIMT is expressed in all cells of the E3.5day blastocyst in the mouse.
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