Adenylyltransferase and Sulfurtransferase MOCS3 (GJ21670) Drosophila Virilis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Adenylyltransferase and sulfurtransferase MOCS3 (GJ21670), Recombinant Protein
Full Product Name	Recombinant Drosophila virilis Adenylyltransferase and sulfurtransferase MOCS3 (GJ21670)
Product Gene Name	GJ21670 recombinant protein
Sequence	MIAAANCLET EKAKLRREIA ELQAALNAKE QNLRDLQSRT AASHLDPEAD LQHATREQYA TLNNDDIARY SRQLILSDFG VSGQLKLKNS AVLIVGLGGL GCPAAQYLCS AGCGNLGLVD YDEVERSNLH RQTLHTVARC GMSKTESARI ALLELNPHCR ITCYPRLLNS SNAMHIMRAY DIVLDCSDNV ATRYLLNDAC TMLRKPLVSG SALKLDGQLT VYSYGAQGPC YRCIYPVPPP PEAVTNCGDG GVLGAVTGTI GAMQALEAIK IIIGLGDVLA GRMLIFDGSS CQFRNIKIRS KRPNCHVCSA QPLITGLIDY ELFCGMNAND KDNAVKLLEP EERINVLDYQ RLMKTKAHLL LDVRAPAEFE ICQLPDSINV PLAHVLDDSY LQRFAQQLES KELPIFVVCR RGNDSQIAVQ HMRTRLPEHS IRDLEGGLHA WTNQVDQSFP IY
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	49,862 Da
Sequence Positions	1-452, 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 B4LRB9
Species	Drosophila virilis (Fruit fly)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GJ21670 recombinant protein	MBS1228125 is a recombinant protein targeting GJ21670. Also known as Recombinant Drosophila virilis Adenylyltransferase and sulfurtransferase MOCS3 (GJ21670). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GJ21670 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 GJ21670. It may not necessarily be applicable to this product.

NCBI GI #	195387501
NCBI GeneID	6628147
NCBI Accession #	XP_002052434.1

UniProt Primary Accession #	B4LRB9
UniProt Related Accession #	B4LRB9
GenBank Nucleotide #	XM_002052398.2
NCBI Official Full Name	uncharacterized protein Dvir_GJ21670
NCBI Official Symbol	DvirGJ21670
NCBI Official Synonym Symbols	dvir_GLEANR_701; GJ21670
UniProt Protein Name	Adenylyltransferase and sulfurtransferase MOCS3
UniProt Synonym Protein Names	Sulfur carrier protein MOCS2A sulfurtransferase
UniProt Gene Name	GJ21670
NCBI Protein Information	GJ21670 gene product from transcript GJ21670-RA
UniProt Comments for GJ21670	Plays a central role in 2-thiolation of mcm5S2U at tRNA wobble positions of cytosolic tRNA(Lys), tRNA(Glu) and tRNA(Gln). Also essential during biosynthesis of the molybdenum cofactor. Acts by mediating the C-terminal thiocarboxylation of sulfur carriers URM1 and MOCS2A. Its N-terminus first activates URM1 and MOCS2A as acyl-adenylates (-COAMP), then the persulfide sulfur on the catalytic cysteine is transferred to URM1 and MOCS2A to form thiocarboxylation (-COSH) of their C-terminus. The reaction probably involves hydrogen sulfide that is generated from the persulfide intermediate and that acts as nucleophile towards URM1 and MOCS2A. Subsequently, a transient disulfide bond is formed. Does not use thiosulfate as sulfur donor; NFS1 probably acting as a sulfur donor for thiocarboxylation reactions.
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