S-Adenosylmethionine Synthase 1 (metK1) Rhodopseudomonas Palustris Recombinant Protein

PRODUCT OVERVIEW

Product Name	S-adenosylmethionine synthase 1 (metK1), Recombinant Protein
Full Product Name	Recombinant Rhodopseudomonas palustris S-adenosylmethionine synthase 1 (metK1)
Product Gene Name	metK1 recombinant protein
Product Synonym Gene Name	metK1
Sequence	MREHCVTSES VTEGHPDKVC DQISDGILDA CVAQDPASRV AVETLVSGNI AVIAGEITTT AQIDAERTAR AVIKAIGYDD PALGFDSDSC FILTNLRTQS PDINLGVSRG DELGAGDQGV FYGYACDETA NLMPIPIALA HTLSLRLTMM RRDGTLPWLR PDGKVQVTMR YGRDGRPCGL DSVVVSAQHD EAVDRDTLVR GLVEGVIYPE LHDWLQPGTR VLINPTGRFV VGGPAGDTGV TGRKLMVDTY GGCAQHGGGA FSGKDATKVD RTAAYMARYA AKNVVAAGLA GRCQLALAYA IGQIDPEMIS VETFGTETVD GDRICAAVRE VFPWTVSGMI AALELRQPRF RKTAAYGHFG REDQGFQWEK TDRSGELLAL CTR
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	41,114 Da
Sequence Positions	1-383, 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 Q21A46
Species	Rhodopseudomonas palustris (strain BisB18)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for metK1 recombinant protein	MBS1342604 is a recombinant protein targeting metK1. Also known as Recombinant Rhodopseudomonas palustris S-adenosylmethionine synthase 1 (metK1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of metK1 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 metK1. It may not necessarily be applicable to this product.

NCBI GI #	499790911
NCBI Accession #	WP_011471645.1
UniProt Primary Accession #	Q21A46

GenBank Nucleotide #	WP_011471645.1
NCBI Official Full Name	S-adenosylmethionine synthase 1
UniProt Protein Name	S-adenosylmethionine synthase 1
UniProt Synonym Protein Names	MAT 1
Protein Family	S-adenosylmethionine synthase
UniProt Gene Name	metK1
UniProt Synonym Gene Names	AdoMet synthase 1
UniProt Comments for metK1	Catalyzes the formation of S-adenosylmethionine (AdoMet) from methionine and ATP. The overall synthetic reaction is composed of two sequential steps, AdoMet formation and the subsequent tripolyphosphate hydrolysis which occurs prior to release of AdoMet from the enzyme.
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