Methyl-Coenzyme M Reductase II Subunit Beta (mrtB) Methanocaldococcus Jannaschii Recombinant Protein

PRODUCT OVERVIEW

Product Name	Methyl-coenzyme M reductase II subunit beta (mrtB), Recombinant Protein
Full Product Name	Recombinant Methanocaldococcus jannaschii Methyl-coenzyme M reductase II subunit beta (mrtB)
Product Gene Name	mrtB recombinant protein
Product Synonym Gene Name	mrtB; MJ0081
Product Synonym Names	Methyl-coenzyme M reductase II subunit beta; MCR II beta; EC=2.8.4.1; Coenzyme-B sulfoethylthiotransferase beta
Sequence	MLHYEDRIDL YDERGKLLEE NVPLEAISPL KNPTIEKIVN DIKRSVAINL AGIENALKTG AVGGKACFCP GRELDLPIVE NAEIIAEKIK RMVQIEEDDD TVVKLINGGK QLLLQLPSKR LRVAADYTVS ALIGGGATVQ AIVDAFDVDM FDAPVVKTAV MGRYPQTVDF HGANIATLLG PPVLLEGLGY GLRNIMANHI VAVTRKKTLN AVALASILEQ TAMFETGDAL GAFERLHLLG LAFQGLNANN LTYELVKENG KDGTVGTVVA SVVERALEDG VIRPLKTMPS GFTVYEPVDW ALWNAYAASG LVAAVIVNVG AARAAQGVAS TVLYYNDILE YETGLPSVDF GRAEGTAVGF SFFSHSIYGG GGPGTFHGNH VVTRHSKGFA IPCAAAAMCL DAGTQMFSVE RTSALVGTVY SAIDHLREPL KYVAEGAVEV KEKEKVI
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	47,770 Da
Sequence Positions	1-447aa; 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 Q60390
Species	Methanocaldococcus jannaschii (strain 43067 / DSM 2661 / JAL-1 / JCM 10045 / NBRC 100440) (Methanococcus jannaschii)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mrtB recombinant protein	MBS1329128 is a recombinant protein targeting mrtB. Also known as Recombinant Methanocaldococcus jannaschii Methyl-coenzyme M reductase II subunit beta (mrtB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mrtB 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 mrtB. It may not necessarily be applicable to this product.

NCBI GI #	15668252

NCBI GeneID	1450920
NCBI Accession #	NP_247045.1
UniProt Primary Accession #	Q60390
UniProt Related Accession #	Q60390
GenBank Nucleotide #	NC_000909.1
NCBI Official Full Name	methyl coenzyme M reductase II subunit MrtB
NCBI Official Symbol	MJ_0081
UniProt Protein Name	Methyl-coenzyme M reductase II subunit beta
UniProt Synonym Protein Names	Coenzyme-B sulfoethylthiotransferase beta
Protein Family	Methyl-coenzyme M reductase
UniProt Gene Name	mrtB
UniProt Synonym Gene Names	MCR II beta
UniProt Entry Name	MCRY_METJA
NCBI Protein Information	methyl coenzyme M reductase II subunit MrtB
UniProt Comments for mrtB	Reduction of methyl-coenzyme M (2-(methylthio) ethanesulfonic acid) with 7-mercaptoheptanoylthreonine phosphate to methane and a heterodisulfide.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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