5,10-Methylenetetrahydromethanopterin Reductase (mer) Methanocaldococcus Jannaschii Recombinant Protein

PRODUCT OVERVIEW

Product Name	5,10-methylenetetrahydromethanopterin reductase (mer), Recombinant Protein
Full Product Name	Recombinant Methanocaldococcus jannaschii 5,10-methylenetetrahydromethanopterin reductase (mer)
Product Gene Name	mer recombinant protein
Product Synonym Gene Name	mer; MJ1534
Product Synonym Names	5,10-methylenetetrahydromethanopterin reductase; EC=1.5.99.11; Coenzyme F420-dependent N(5),N(10)-methylenetetrahydromethanopterin reductase; Methylene-H(4)MPT reductase
Sequence	MKFGIEFVPN EPIQKLCYYV KLAEDNGFEY CWITDHYNNR NVYMALTAIA MNTNKIKLGP GVTNPYVRSP AITASAIATL DELSGGRAVL GIGPGDKATF DALGIEWVKP VTTLKESIEV IRKLLAGERV SYEGKVVKIA GAALAVKPIQ KAVPVYMGAQ GPKMLETAGM IADGVLINAS NPKDFEAAIP LIKKGAEAAG RSMDEIDVAA YACMSVDKNA DKAKQAAVPV VAFIAAGSPP VVLERHGIDM EKVEAIRNAL KSGNFPEAFK NVDDTMLEAF SIYGTPEDVV EKCKKLAEMG VTQIVAGSPI GPNKETAIKL IGKKVIPALK E
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	35,353 Da
Sequence Positions	1-331aa; 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 Q58929
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 mer recombinant protein	MBS1468236 is a recombinant protein targeting mer. Also known as Recombinant Methanocaldococcus jannaschii 5,10-methylenetetrahydromethanopterin reductase (mer). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mer 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 mer. It may not necessarily be applicable to this product.

NCBI GI #	15669729
NCBI GeneID	1452442

NCBI Accession #	NP_248542.1
UniProt Primary Accession #	Q58929
UniProt Related Accession #	Q58929
GenBank Nucleotide #	NC_000909.1
NCBI Official Full Name	methylenetetrahydromethanopterin reductase
NCBI Official Symbol	MJ_1534
UniProt Protein Name	5,10-methylenetetrahydromethanopterin reductase
UniProt Synonym Protein Names	Coenzyme F420-dependent N(5),N(10)-methylenetetrahydromethanopterin reductase; Methylene-H(4)MPT reductase
Protein Family	5,10-methylenetetrahydromethanopterin reductase
UniProt Gene Name	mer
UniProt Entry Name	MER_METJA
NCBI Protein Information	methylenetetrahydromethanopterin reductase
UniProt Comments for mer	Catalyzes the reversible reduction of methylene-H4MPT to methyl-H4MPT.
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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