Sulfoxide Reductase Catalytic Subunit Yedy (yedY) Rhizobium Etli Recombinant Protein

PRODUCT OVERVIEW

Product Name	Sulfoxide reductase catalytic subunit YedY (yedY), Recombinant Protein
Full Product Name	Recombinant Rhizobium etli Sulfoxide reductase catalytic subunit YedY (yedY)
Product Gene Name	yedY recombinant protein
Product Synonym Gene Name	yedY
Sequence	AAFSAVESKY KVDEKTTPIK DVTTYNNFYE FGLDKGDPAA LSGEFKPLPW AVKVDGMVNK PGTFDVEALI KEFPIEERTY RMRCVEAWSM VIPWNGFPLA ALLNKVEPLG SAKYVAFETV VRPEEMPGQK GFFQSLDWPY VEGLRLDEAR HPLTLLAVGL YGETLPNQNG APIRLVVPWK YGFKGIKSIV RITLTDQQPK NTWQVTNPQE YGFYANVNPA VDHPRWSQAS ERRIGGSGFF GASRRPTLPF NGYADEVASL YAGMDLKANF
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	35,119 Da
Sequence Positions	46-315, 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 Q2K9I8
Species	Rhizobium etli (strain CFN 42 / 51251)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for yedY recombinant protein	MBS1407040 is a recombinant protein targeting yedY. Also known as Recombinant Rhizobium etli Sulfoxide reductase catalytic subunit YedY (yedY). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of yedY 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 yedY. It may not necessarily be applicable to this product.

NCBI GI #	499744262
NCBI Accession #	WP_011424996.1
UniProt Primary Accession #	Q2K9I8
GenBank Nucleotide #	WP_011424996.1
NCBI Official Full Name	mononuclear molybdenum enzyme YedY

UniProt Protein Name	Protein-methionine-sulfoxide reductase catalytic subunit MsrP
UniProt Gene Name	msrP
UniProt Comments for yedY	Part of the MsrPQ system that repairs oxidized periplasmic proteins containing methionine sulfoxide residues (Met-O), using respiratory chain electrons. Thus protects these proteins from oxidative-stress damage caused by reactive species of oxygen and chlorine generated by the host defense mechanisms. MsrPQ is essential for the maintenance of envelope integrity under bleach stress, rescuing a wide series of structurally unrelated periplasmic proteins from methionine oxidation. The catalytic subunit MsrP is non-stereospecific, being able to reduce both (R-) and (S-) diastereoisomers of methionine sulfoxide.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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