L-Cysteine:1d-Myo-Inositol 2-Amino-2-Deoxy-Alpha-D-Glucopyranoside Ligase (mshC) Kineococcus Radiotolerans Recombinant Protein

PRODUCT OVERVIEW

Product Name	L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase (mshC), Recombinant Protein
Full Product Name	Recombinant Kineococcus radiotolerans L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase (mshC)
Product Gene Name	mshC recombinant protein
Sequence	MRSWSVPEVP ALPGRGPRVH LHDTATGGLV PVGPEAGTAT LYVCGITPYD ATHLGHANTY VAFDLLGRAW RDAGLDVRYV QNVTDVDDPL LERAEATGVD WRDLAESQVE LFRGDMEALS VVPPQRYLGV VEAVDLVAEA VRDLLAAGAA YRVPGTDGGP DGDVYFPVDA DAAFGTVGGY DLETMLALSA ERGGDPQRPG KRNPLDPLLW RVERPGEPAW EAGELGRGRP GWHIECTAIA LEHLGMPIDV QAGGSDLVFP HHEMGAAHAH LLRPRARPFA RAYAHSGMVA LDGEKMSKSK GNLVLVSRLV AAGVPAAVVR LAIVDHHWRT DWEWTDEVLA QARARHERWS AAVAAPAGPP AEALLATVRE RLADDLDAPG AVAAVDAWVE QARTTAGTDA QAPDLVRRTV SALLGVVLP
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	44,722 Da
Sequence Positions	1-419, 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 A6W933
Species	Kineococcus radiotolerans (strain BAA-149 / DSM 14245 / SRS30216)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mshC recombinant protein	MBS1057504 is a recombinant protein targeting mshC. Also known as Recombinant Kineococcus radiotolerans L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase (mshC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mshC 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 mshC. It may not necessarily be applicable to this product.

NCBI GI #	500725557
NCBI Accession #	WP_011981539.1
UniProt Primary Accession #	A6W933

GenBank Nucleotide #	WP_011981539.1
NCBI Official Full Name	L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase
UniProt Protein Name	L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase
UniProt Synonym Protein Names	Mycothiol ligase
Protein Family	L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase
UniProt Gene Name	mshC
UniProt Synonym Gene Names	L-Cys:GlcN-Ins ligase; MSH ligase
UniProt Comments for mshC	Catalyzes the ATP-dependent condensation of GlcN-Ins and L-cysteine to form L-Cys-GlcN-Ins.
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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