L-Cysteine:1d-Myo-Inositol 2-Amino-2-Deoxy-Alpha-D-Glucopyranoside Ligase (mshC) Nocardia Farcinica 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 Nocardia farcinica L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase (mshC)
Product Gene Name	mshC recombinant protein
Product Synonym Gene Name	mshC
Sequence	MQSWSDTALP TVPGAGPPLR LYDTADRQVR PVAPGATATM YVCGITPYDA THLGHAATYL TFDLVNRVLR DGGHDVHYVQ NVTDVDDPLF ERAARDGVDW RELGSREIEL FRTDMAALRV LPPREYVGAV ESVEEVVEFV QKLLANGAAY VVDDPDFPDI YFRTDATEQF GYESGYDRAT MERLFAERGG DPDRPGKRDP LDALLWRAAR PGEPSWPAPF GAGRPGWHIE CSAIALNRLG PEFDIQGGGS DLIYPHHEYS AAHAESVVAG RRFARHYVHA GLIGLDGEKM SKSRGNLVLV STLRKDGVDP AAIRLGLLDG HYRQDRMWTD AVLEAALARL ARWRSATALS AGPAAHDTIA RLRQHLADDL DSPKALAAVD NWVTEALDYG GSDSGAPAAI AEAVDALLGV RL
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	44,914 Da
Sequence Positions	1-412, 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 Q5YVL0
Species	Nocardia farcinica (strain IFM 10152)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mshC recombinant protein	MBS1356019 is a recombinant protein targeting mshC. Also known as Recombinant Nocardia farcinica 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 #	499522826
NCBI Accession #	WP_011209466.1

UniProt Primary Accession #	Q5YVL0
GenBank Nucleotide #	WP_011209466.1
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; MSH ligase
Protein Family	L-cysteine:1D-myo-inositol 2-amino-2-deoxy-alpha-D-glucopyranoside ligase
UniProt Gene Name	mshC
UniProt Synonym Gene Names	cysS2; 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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