D-Alanine--Poly (Phosphoribitol) Ligase Subunit 1 (dltA) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	D-alanine--poly (phosphoribitol) ligase subunit 1 (dltA), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus D-alanine--poly (phosphoribitol) ligase subunit 1 (dltA)
Product Gene Name	dltA recombinant protein
Product Synonym Gene Name	dltA
Sequence	MTDIINKLQA FADANPQSIA VRHTTDELTY QQLMDESSKL AHRLQGSKKP MILFGHMSPY MIVGMIGAIK AGCGYVPVDT SIPEDRIKMI INKVQPEFVF NTTDESFESL AGEVFTIEDI KTSQDPVIFD SQIKDNDTVY TIFTSGSTGE PKGVQIEYAS LVQFTEWMLE LNKSGNEQQW LNQAPFSFDL SVMAIYPCLA SGGTLNLVDK NMINKPKLLN EMLTATPINI WVSTPSFMEM CLLLPTLNEE QYGSLNEFFF CGEILPHRAA KALVSRFPSA TIYNTYGPTE ATVAVTSIQI TQEILDQYPT LPVGVERPGA RLSTTDEGEL VIEGQSVSLG YLKNDQKTAE VFNFDDGIRT YHTGDKAKFE NGQWFIQGRI DFQIKLNGYR MELEEIETQL RQSEFVKEAI VVPVYKNDKV IHLIGAIVPT TEVTDNAEMT KNIKNDLKSR LPEYMIPRKF EWMEQLPLTS NGKIDRKKIA EVING
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	54,585 Da
Sequence Positions	1-485, 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 Q6GIF6
Species	Staphylococcus aureus (strain MRSA252)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for dltA recombinant protein	MBS1478887 is a recombinant protein targeting dltA. Also known as Recombinant Staphylococcus aureus D-alanine--poly (phosphoribitol) ligase subunit 1 (dltA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of dltA 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 dltA. It may not necessarily be applicable to this product.

NCBI GI #	446051790
NCBI Accession #	WP_000129645.1
UniProt Primary Accession #	Q6GIF6

GenBank Nucleotide #	WP_000129645.1
NCBI Official Full Name	MULTISPECIES: D-alanine--poly(phosphoribitol) ligase
UniProt Protein Name	D-alanine--D-alanyl carrier protein ligase
UniProt Synonym Protein Names	D-alanine--poly(phosphoribitol) ligase subunit 1
Protein Family	D-alanine--poly(phosphoribitol) ligase
UniProt Gene Name	dltA
UniProt Synonym Gene Names	DCL; DAE
UniProt Comments for dltA	Catalyzes the first step in the D-alanylation of lipoteichoic acid (LTA), the activation of D-alanine and its transfer onto the D-alanyl carrier protein (Dcp) DltC. In an ATP-dependent two-step reaction, forms a high energy D-alanyl-AMP intermediate, followed by transfer of the D-alanyl residue as a thiol ester to the phosphopantheinyl prosthetic group of the Dcp. D-alanylation of LTA plays an important role in modulating the properties of the cell wall in Gram-positive bacteria, influencing the net charge of the cell wall.
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