UDP-N-Acetylmuramoylalanine--D-Glutamate Ligase (murD) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD)
Product Gene Name	murD recombinant protein
Product Synonym Gene Name	murD
Sequence	MLNYTGLENK NVLVVGLAKS GYEAAKLLSK LGANVTVNDG KDLSQDAHAK DLESMGISVV SGSHPLTLLD NNPIIVKNPG IPYTVSIIDE AVKRGLKILT EVELSYLISE APIIAVTGTN GKTTVTSLIG DMFKKSRLTG RLSGNIGYVA SKVAQEVKPT DYLVTELSSF QLLGIEKYKP HIAIITNIYS AHLDYHENLE NYQNAKKQIY KNQTEEDYLI CNYHQRQVIE SEELKAKTLY FSTQQEVDGI YIKDGFIVYK GVRIINTEDL VLPGEHNLEN ILAAVLACIL AGVPIKAIID SLTTFSGIEH RLQYVGTNRT NKYYNDSKAT NTLATQFALN SFNQPIIWLC GGLDRGNEFD ELIPYMENVR AMVVFGQTKA KFAKLGNSQG KSVIEANNVE DAVDKVQDII EPNDVVLLSP ACASWDQYST FEERGEKFIE RFRAHLPSY
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	49,844 Da
Sequence Positions	1-449, 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 Q5HGP8
Species	Staphylococcus aureus (strain COL)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murD recombinant protein	MBS1409848 is a recombinant protein targeting murD. Also known as Recombinant Staphylococcus aureus UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of murD 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 murD. It may not necessarily be applicable to this product.

NCBI GI #	446858735
NCBI Accession #	WP_000935991.1
UniProt Primary Accession #	Q5HGP8

GenBank Nucleotide #	WP_000935991.1
NCBI Official Full Name	MULTISPECIES: UDP-N-acetylmuramoyl-L-alanine--D-glutamate ligase
UniProt Protein Name	UDP-N-acetylmuramoylalanine--D-glutamate ligase
UniProt Synonym Protein Names	D-glutamic acid-adding enzyme
Protein Family	UDP-N-acetylmuramoylalanine--D-glutamate ligase
UniProt Gene Name	murD
UniProt Comments for murD	Cell wall formation. Catalyzes the addition of glutamate to the nucleotide precursor UDP-N-acetylmuramoyl-L-alanine (UMA).
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