UDP-N-Acetylmuramoylalanine--D-Glutamate Ligase (murD) Symbiobacterium Thermophilum Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD), Recombinant Protein
Full Product Name	Recombinant Symbiobacterium thermophilum UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD)
Product Gene Name	murD recombinant protein
Product Synonym Gene Name	murD
Sequence	MAGVKLQERA AVVGIGISNM ALIRYLVARG VRVTACDRTS AEKLGERAAE LARLGVPLVA GEGYLEPLAD HDLIFLTPGM PKHLPEIEAA RRRGAAISGE IGLVLDLCRA PVIGVTGSAG KTTTTTLIGE ILRAAGRETY VGGNIGKPLI EQVEAIPSEA VVVLELSSFQ LQLVHRSPHI AVVTNVSPNH LDVHATMEEY VEAKKAIFRR QSPADWLVLN ADDPTVRAFA AEARSRVVLF SRRADPGGRD AAFVREDRVI WRRGGRETPI LFLDEIRLPG LHNQENVLAA VAACFLAGAP LSAVREVVTQ FTGVEHRIEP VRVLDGVKWY NDSKATSPAE AVAALTTLPA PIVLIAGGSD KGIPFDPIAP LVAEKVKTLI LMGPTAPKIE EAVRRGGYAG PIRRAADMAE AVALAREAAA PGDTVLLSPA CASFDAYRNF EERGRHFKSL VEALS
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	48,635 Da
Sequence Positions	1-455, 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 Q67QM7
Species	Symbiobacterium thermophilum
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murD recombinant protein	MBS1355429 is a recombinant protein targeting murD. Also known as Recombinant Symbiobacterium thermophilum 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 #	60390359
NCBI Accession #	Q67QM7.1

UniProt Primary Accession #	Q67QM7
NCBI Official Full Name	UDP-N-acetylmuramoylalanine--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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