UDP-N-Acetylmuramoylalanine--D-Glutamate Ligase (murD) Streptomyces Coelicolor Recombinant Protein

PRODUCT OVERVIEW

Product Name	UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD), Recombinant Protein
Full Product Name	Recombinant Streptomyces coelicolor UDP-N-acetylmuramoylalanine--D-glutamate ligase (murD)
Product Gene Name	murD recombinant protein
Product Synonym Gene Name	murD
Sequence	MPSEFSGKHV TVAGLGVSGV PAAKVLHGLG AQVTVVNDGD DERARTQAAE LEPLGVTVRL GDGDTLPEGT ELIVTAPGWK PTKPLFTAAG QAGVPVWGDV ELAWRLRGLN GRKPAPWLAV TGTNGKTTTV QMLASILKAA GLRTAAVGNI GVSLLDAVTG EQEYDVLAVE LSSYQLHWAP SLRAHSAAVL NLAPDHLDWH GSMEAYAADK GRIYEGNHVA CVYNVADKAT EDLVRAADVE EGCRAIGFTL GTPGPSQLGV VEGLLVDRAF VEDRQKNAQE LAEVSDVNPP APHNIANALA AAGLARAFGV SAAAVRDGLR AFTPDAHRIA HVADVDGVAY VDDSKATNTH ATEASLAAYE SIVWIAGGLA KGATFDELVA GAAKRLRGAV LIGADRALIR EALARHAPEV PVVDLDRTDT GAMLQAVQEA RRLARPGDTV LLAPACASMD MFTNYNQRGD AFAQAVRELG A
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	49,143 Da
Sequence Positions	1-471, 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 Q9S2W9
Species	Streptomyces coelicolor (strain BAA-471 / A3(2) / M145)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for murD recombinant protein	MBS1471538 is a recombinant protein targeting murD. Also known as Recombinant Streptomyces coelicolor 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 #	21220566
NCBI GeneID	1097520
NCBI Accession #	NP_626345.1

UniProt Primary Accession #	Q9S2W9
UniProt Related Accession #	Q9S2W9
GenBank Nucleotide #	NC_003888.3
NCBI Official Full Name	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate synthetase
NCBI Official Symbol	murD
NCBI Official Synonym Symbols	SC4A10.19c
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
NCBI Protein Information	UDP-N-acetylmuramoyl-L-alanyl-D-glutamate synthetase
UniProt Comments for murD	Cell wall formation. Catalyzes the addition of glutamate to the nucleotide precursor UDP-N-acetylmuramoyl-L-alanine (UMA).
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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