Lantibiotic Mutacin-2 (mutA) Streptococcus Mutans Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lantibiotic mutacin-2 (mutA), Recombinant Protein
Full Product Name	Recombinant Streptococcus mutans Lantibiotic mutacin-2 (mutA)
Product Gene Name	mutA recombinant protein
Sequence	NRWWQGVVPT VSYECRMNSW QHVFTCC
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	6,020 Da
Sequence Positions	27-53, 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 O54329
Species	Streptococcus mutans
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mutA recombinant protein	MBS1166081 is a recombinant protein targeting mutA. Also known as Recombinant Streptococcus mutans Lantibiotic mutacin-2 (mutA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mutA 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 mutA. It may not necessarily be applicable to this product.

NCBI GI #	52783032
NCBI Accession #	O54329.1
UniProt Primary Accession #	O54329
UniProt Secondary Accession #	P84110
NCBI Official Full Name	Lantibiotic mutacin-2
UniProt Protein Name	Lantibiotic mutacin-2
UniProt Synonym Protein Names	Lantibiotic mutacin H-29B; Mutacin II
Protein Family	Lantibiotic mutacin

UniProt Gene Name	mutA
UniProt Comments for mutA	Lanthionine-containing peptide antibiotic (lantibiotic) active on Gram-positive bacteria including M.luteus, S.aureus, Streptococcus, P.micros, P.acidilactici, C.sporogenes, C.diphtheriae, A.viscosus, G.vaginalis, P.acnes, L.monocytogenes and M.smegmatis, and Gram-negative bacteria including C.jejuni, H.pylori and N.gonorrhoeae. Transiently and partially depolarizes the transmembrane electrical potential and pH gradient of susceptible cells, inhibits the uptake of amino acids and depletes the intracellular ATP pool.
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