L-Lysine 6-Monooxygenase Mbtg (mbtG) Mycobacterium Bovis Recombinant Protein

PRODUCT OVERVIEW

Product Name	L-lysine 6-monooxygenase mbtG (mbtG), Recombinant Protein
Full Product Name	Recombinant Mycobacterium bovis L-lysine 6-monooxygenase mbtG (mbtG)
Product Gene Name	mbtG recombinant protein
Product Synonym Gene Name	mbtG
Sequence	SVLRDMGVDV PDVIAVERIG VGANWQASGG WTDGAHRLGT SPEKDVGFPY RSALVPRRNA ELDERMTRYS WQSYLIATAS FAEWIDRGRP APTHRRWSQY LAWVADHIGL KVIHGEVERL AVTGDRWALC THETTVQADA LMITGPGQAE KSLLPGNPRV LSIAQFWDRA AGHDRINAER VAVIGGGETA ASMLNELFRH RVSTITVISP QVTLFTRGEG FFENSLFSDP TDWAALTFDE RRDALARTDR GVFSATVQEA LLADDRIHHL RGRVAHAVGR QGQIRLTLST NRGSENFETV HGFDLVIDGS GADPLWFTSL FSQHTLDLLE LGLGGPLTAD RLQEAIGYDL AVTDVTPKLF LPTLSGLTQG PGFPNLSCLG LLSDRVLGAG IFTPTKHNDT RRSGEHQSFR
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	46,944 Da
Sequence Positions	22-431, 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 Q7TYQ9
Species	Mycobacterium bovis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mbtG recombinant protein	MBS1346546 is a recombinant protein targeting mbtG. Also known as Recombinant Mycobacterium bovis L-lysine 6-monooxygenase mbtG (mbtG). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mbtG 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 mbtG. It may not necessarily be applicable to this product.

NCBI GI #	31793555
NCBI GeneID	1094387
NCBI Accession #	NP_856048.1
UniProt Primary Accession #	Q7TYQ9

UniProt Secondary Accession #	A0A1R3Y118; X2BKA8
GenBank Nucleotide #	NC_002945.3
NCBI Official Full Name	lysine-N-oxygenase
UniProt Protein Name	L-lysine N6-monooxygenase MbtG
UniProt Synonym Protein Names	Lysine 6-N-hydroxylase; Lysine N6-hydroxylase; Lysine-N-oxygenase; Mycobactin synthase protein G
Protein Family	L-lysine N6-monooxygenase
UniProt Gene Name	mbtG
UniProt Comments for mbtG	Flavoprotein monooxygenase required for N-hydroxylation of the two acylated lysine residues during mycobactin assembly, thus producing the hydroxamate groups necessary for iron sequestration. Is also able, but less efficiently, to hydroxylate L-lysine (non acylated) in vitro ().
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