Acyl-[Acyl-Carrier-Protein] Dehydrogenase Mbtn (mbtN) Mycobacterium Paratuberculosis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Acyl-[acyl-carrier-protein] dehydrogenase MbtN (mbtN), Recombinant Protein
Full Product Name	Recombinant Mycobacterium paratuberculosis Acyl-[acyl-carrier-protein] dehydrogenase MbtN (mbtN)
Product Gene Name	mbtN recombinant protein
Product Synonym Gene Name	mbtN
Sequence	MSAATTADID HYRTVLAGAF DDQVLEWTRE AEARQRFPRE LIEHLGARGV FSEKWCGGML PDVGKLVELA RALGRLSSAG IGVGVSLHDS AIAVLRRFGK SDYLRDICER AIAGQAVLCI GASEESGGSD LQIVRTEMSS RDGGFDIRGV KKFVSLSPIA DHIMVVARSI DHDSASKHGN VALIAVPTSQ ASVQRPYAKV GAGPLDTAAV HIDTWVPADA LVARAGTGLA AISWGLAHER MSIAGQIAAS CQRAIGITLA RMMTRRQFGR TLFEHQALRL RMADLQARVD LLQHGLNGIA AQGRLDLRAA AGVKVTAARL GEEVMSECMH IFGGAGYLVE ETPLGRWWRD MKLARVGGGT DEVLWELVAA GMAADHGGYR SVVGASSA
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	41,370 Da
Sequence Positions	1-388, 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 Q73ZP8
Species	Mycobacterium paratuberculosis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for mbtN recombinant protein	MBS1484336 is a recombinant protein targeting mbtN. Also known as Recombinant Mycobacterium paratuberculosis Acyl-[acyl-carrier-protein] dehydrogenase MbtN (mbtN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of mbtN 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 mbtN. It may not necessarily be applicable to this product.

NCBI GI #	81700615
NCBI Accession #	Q73ZP8.1
UniProt Primary Accession #	Q73ZP8

NCBI Official Full Name	Acyl-[acyl-carrier-protein] dehydrogenase MbtN
UniProt Protein Name	Acyl-[acyl-carrier-protein] dehydrogenase MbtN
UniProt Synonym Protein Names	Mycobactin synthase protein N
Protein Family	Acyl-[acyl-carrier-protein] dehydrogenase
UniProt Gene Name	mbtN
UniProt Synonym Gene Names	fadE14; Acyl-ACP dehydrogenase MbtN
UniProt Comments for mbtN	Catalyzes the dehydrogenation at the alpha-beta position of ACP-bound acyl chains. This results in the introduction of a double bond in the lipidic chain, which is further transferred to the epsilon-amino group of lysine residue in the mycobactin core by MbtK ().
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