Recombinant M. tuberculosis Antigen 85A protein

Catalog Number: ATGP1490

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
44-338aa

UniProt No.
P9WQP3

NCBI Accession No.
NP_218321.1

Alternative Names
Antigen 85 complex A, Mycolytransferase 85A, Fibronectin-binding protein A, TB Ab85A, TBab85A, Ag85A, DGAT, Diacylglycerol acyltransferase/mycolyltransferase Ag85A, Acyl-CoA diacylglycerol acyltransferase, fbpA, Rv3804c

PRODUCT SPECIFICATION

Molecular Weight
32.8 kDa (305aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing, 10% glycerol

Purity
> 95% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Antigen 85A, belong to the antigen 85 complex (Antigen 85A, B, C). The enzymes of the antigen 85 complex possess mycolyltransferase activity and catalyze the synthesis of the most abundant glycolipid of the mycobacterial cell wall, the cord factor. The cord factor (trehalose 6, 6'-dimycolate, TDM) is essential for the

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integrity of the mycobacterial cell wall and pathogenesis of the bacillus. TDM is synthesized from two molecules of trehalose-6'-monomycolate (TMM) by Antigen 85A. Recombinant Mycobacterium tuberculosis Antigen 85A protein, fused to His-tag at C-terminus, was expressed in Hi-5 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

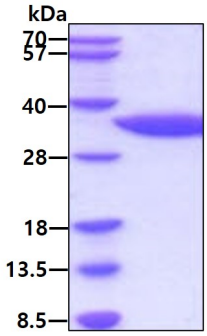
<ADPA>FSRPGL PVEYLQVPSP SMGRDIKVQF QSGGANSPAL YLLDGLRAQD DFSGWDINTP AFEWYDQSGL SVVMPVGGQS SFYSDWYQPA CGKAGCQTYK WETFLTSELP GWLQANRHVK PTGSAVVGLS MAASSALTLA IYHPQQFVYA GAMSGLLDPS QAMGPTLIGL AMGDAGGYKA SDMWGPKEDP AWQRNDPLLN VGKLIANNTR VWVYCGNGKP SDLGGNNLPA KFLEGFVRTS NIKFQDAYNA GGGHNGVFDF PDSGTHSWEY WGAQLNAMKP DLQRALGATP NTGPAPQGA<H HHHHH>

General References

Elamin AA., et al. (2009) J Microbiol Methods. 79(3):358-63.
Jeon BY., et al. (2011) Microbes Infect. 13(3):284-90.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain