Recombinant Mycobacterium tuberculosis (strain CDC 1551/Oshkosh) Diacylglycerol acyltransferase/mycolyltransferase Ag85A(fbpA) protein, His-tagged

Cat. No. fbpA-2023M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mycobacterium tuberculosis (strain CDC 1551/Oshkosh) Diacylglycerol acyltransferase/mycolyltransferase Ag85A(fbpA) partial protein (53-331aa) was fused to His-tag at N-terminus and expressed in E.coli.
Species	Mycobacterium Tuberculosis
Source	E.coli
ProteinLength	279
Description	The antigen 85 proteins (FbpA, FbpB, FbpC) are responsible for the high affinity of mycobacteria for fibronectin, a large adhesive glycoprotein, which facilitates the attachment of M.tuberculosis to murine alveolar macrophages (AMs). They also help to maintain the integrity of the cell wall by catalyzing the transfer of mycolic acids to cell wall arabinogalactan, and through the synthesis of alpha,alpha-trehalose dimycolate (TDM, cord factor). They catalyze the transfer of a mycoloyl residue from one molecule of alpha,alpha-trehalose monomycolate (TMM) to another TMM, leading to the formation of TDM. FbpA mediates triacylglycerol (TAG) formation with long-chain acyl-CoA as the acyl donor and 1,2-dipalmitoyl-sn-glycerol (1,2-dipalmitin) as the acyl acceptor (By similarity).

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Form	Liquid or Lyophilized powder. If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol; If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Molecular Mass	34.1 kDa
AA Sequence	YLQVPSPSMGRDIKVQFQSGGANSPALYLLDGLRAQDDFSGWDINTPAFEWYDQS GLSVVMPVGGQSSFYSDWYQPACGKAGCQTYKWETFLTSELPGWLQANRHVKPT GSAVVGLSMAASSALTLAIYHPQQFVYAGAMSGLLDPSQAMGPTLIGLAMGDAGGY KASDMWGPKEDPAWQRNDPLLNVGKLIANNTRVWVYCGNGKPSDLGGNNLPAKF LEGFVRTSNIKFQDAYNAGGGHNGVFDFPDSGTHSWEYWGAQLNAMKPDLQRAL GATPNT
Purity	Greater than 90% as determined by SDS-PAGE.
Storage	Store at -20 centigrade upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.
Expiry	Generally, the shelf life of liquid form is 6 months at -20/-80 centigrade. The shelf life of lyophilized form is 12 months at -20/-80 centigrade.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name	fbpA

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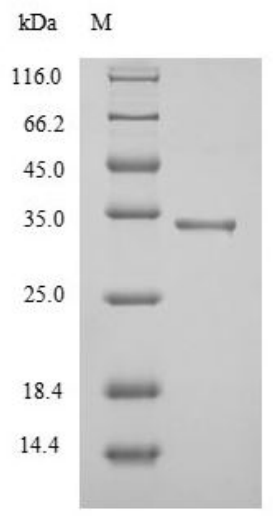
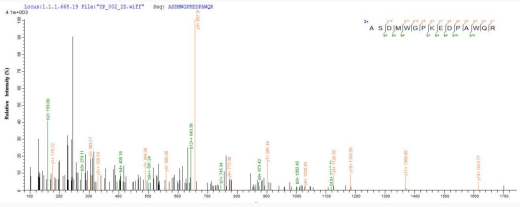
Official Symbol	fbpA
Synonyms	Acyl-CoA; Ag85A; Fbps A; 85A; mpt44
Gene ID	886132
Protein Refseq	NP_218321.1
UniProt ID	P9WQP2
SDS-PAGE of fbpA-2023M	 Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
LC-MS/MS Analysis of fbpA-2023M	

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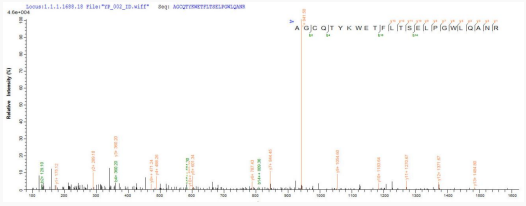
	Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of fbpA-2023M could indicate that this peptide derived from E.coli-expressed Mycobacterium tuberculosis fbpA.
LC-MS/MS Analysis of fbpA-2023M	 Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of fbpA-2023M could indicate that this peptide derived from E.coli-expressed Mycobacterium tuberculosis fbpA.

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