



Recombinant Mycobacterium tuberculosis

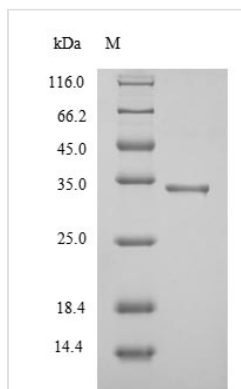
Diacylglycerol acyltransferase/mycolyltransferase

Ag85A (fbpA), partial

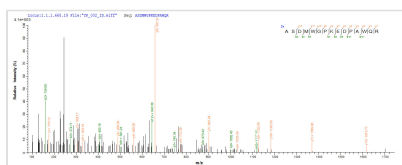
Product Code	CSB-RP182794Ba
Relevance	The antigen 85 proteins (FbpA, FbpB, FbpC) are responsible for the high affinity of mycobacteria for fibronectin, a large adhesive glycoprotein, which facilitates the attachment of M.tuberculosis to murine alveolar macrophages (AMs). They also help to maintain the 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).
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P9WQP2
Alias	Acyl-CoA:diacylglycerol acyltransferase Antigen 85 complex A Short name: 85A Short name: Ag85A Fibronectin-binding protein A Short name: Fbps A
Product Type	Recombinant Protein
Immunogen Species	Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	YLQVPSPSMGRDIKVQFQSGGANSPALYLLDGLRAQDDFSGWDINTPAFEWY DQSGLSVVMVPVGGQSSFYSDWYQPACGKAGCQTYKWETFLTSELPGWLQA NRHVKPTGSAVVGLSMAASSALTIAIYHPQQFVYAGAMSGLLDPSQAMGPTLI GLAMGDAGGYKASDMWGPKEDPAWQRNDPLLNVGKLIANNTRVWVYCGNG KPSDLGGNNLPAKFLEGFVRTSNIKFQDAYNAGGGHNGVDFDFPSGTHSWEY WGAQLNAMKPDQLQRALGATPNT
Lead Time	3-7 business days
Research Area	Others
Source	E.coli
Gene Names	fbpA
Expression Region	53-331aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info	N-terminal 6xHis-tagged
Mol. Weight	34.1kDa
Protein Description	Partial

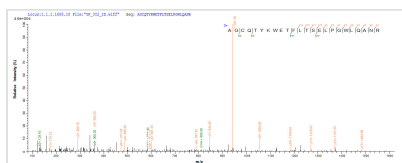
Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of *E.coli* host and target protein, the LC-MS/MS Analysis result of CSB-RP182794Ba could indicate that this peptide derived from *E.coli*-expressed *Mycobacterium tuberculosis* fbpA.



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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°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.