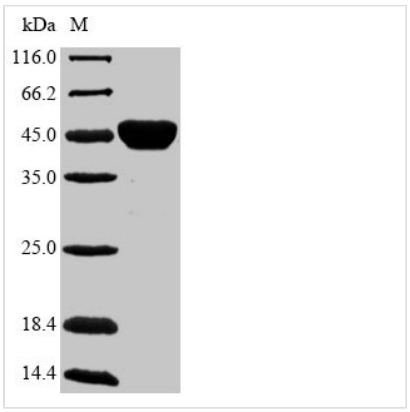
Recombinant Mycobacterium kansasii Diacylglycerol acyltransferase/mycolyltransferase Ag85B (fbpB)

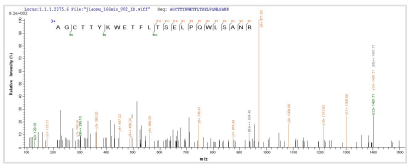
Product Code	CSB-EP324138MKZ
Relevance	The antigen 85 proteins (FbpA, FbpB, FbpC) are responsible for the high affinity of mycobacteria for fibronectin, a large adhesive glycoprotein, which facilitates the attachment of M.tuberculosis to murine alveolar macrophages (AMs). They also help to maintain the 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 .
Abbreviation	Recombinant Mycobacterium kansasii fbpB protein
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.	P21160
Alias	30 kDa extracellular protein Acyl-CoA:diacylglycerol acyltransferase Antigen 85 complex B
Product Type	Recombinant Protein
Immunogen Species	Mycobacterium kansasii
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	FSRPGLPVEYLQVPSAAMGRSIKVQFQSGGDNSPAVYLLDGLRAQDDYNGW DINTPAFEWYYQSGLSVIMPVGGQSSFYSDWYSPACGKAGCTTYKWETFLTS ELPQWLSANRSVKPTGSAAVGISMAGSSALILSVYHPQQFIYAGSLSALMDPS QGMGPSLIGLAMGDAGGYKASDMWGPSSDPAWQRNDPSLHIPELVANNTRL WIYCGNGTPSELGGANVPAEFLENFVRSSNLKFQDAYNAAGGHNAVFNLDAN GTHSWEYWGAQLNAMKGDLQASLGAR
Research Area	Microbiology
Source	E.coli
Target Names	fbpB
Protein Names	Recommended name: Antigen 85-BAlternative name(s): Antigen 85 complex B Short name= 85B Short name= Ag85B Extracellular alpha-antigen Fibronectin-binding protein B Mycolyl transferase 85B EC= 2.3.1.-
Expression Region	41-325aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	50.6kDa
Protein Length	Full Length of Mature Protein

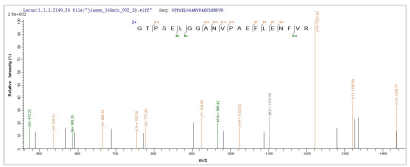
Image



(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-EP324138MKZ could indicate that this peptide derived from E.coli-expressed Mycobacterium kansasii fbpB.



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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.
Shelf Life	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.