



# Recombinant Mycobacterium tuberculosis Diacylglycerol acyltransferase/mycolyltransferase Ag85B (fbpB)

<b>Product Code</b>	CSB-YP314366MVZ
<b>Relevance</b>	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 .
<b>Abbreviation</b>	Recombinant Mycobacterium tuberculosis fbpB protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	P9WQP0
<b>Alias</b>	30 kDa Extracellular domain protein;Acyl-CoA:diacylglycerol acyltransferaseAntigen 85 complex B ;85B ;Ag85BExtracellular domain alpha-antigenFibronectin-binding protein B ;Fbps B
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	FSRPGLPVEYLQVPSMGRDIKVFQSGGNNSPAVYLLDGLRAQDDYNGW DINTPAFEWYYQSGLSIVMPVGGQSSFYSDWYSPACGKAGCQTYKWETFLTS ELPQWLSANRAVKPTGSAAGLSMAGSSAMILAAYHPQQFIYAGSLSALLDPS QGMGPSLIGLAMGDAGGYKAADMWGPSSDPAWERNDPTQQIPKLVANNTL WVYCGNGTPNELGGANIPAEFLENFVRSSNLKFQDAYNAAGGHNAVFNFPN GTHSWEYWGAQLNAMKGDQLQSSLGAG
<b>Source</b>	Yeast
<b>Target Names</b>	fbpB
<b>Protein Names</b>	Recommended name: Antigen 85-BAlternative name(s): 30 kDa extracellular protein Antigen 85 complex B Short name= 85B Short name= Ag85B Extracellular alpha-antigen Fibronectin-binding protein B Mycolyl transferase 85B EC=
<b>Expression Region</b>	41-325aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at



4°C for up to one week.

**Tag Info**

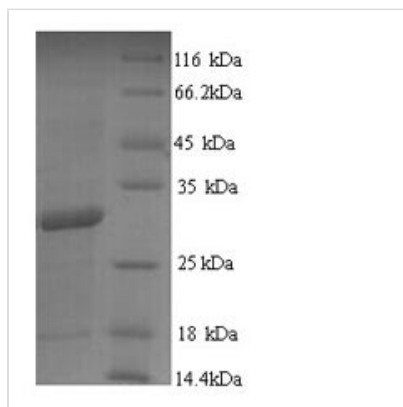
N-terminal 6xHis-tagged

**Mol. Weight**

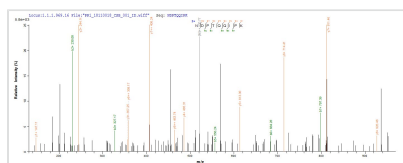
32.7kDa

**Protein Length**

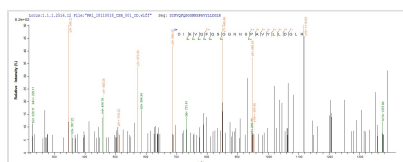
Full Length of Mature Protein

**Image**


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



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP314366MVZ could indicate that this peptide derived from Yeast-expressed Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) 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**

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