

Recombinant Mycobacterium Tuberculosis FBPC Protein (46-340 aa), His-tagged

Cat. No. FBPC-1947M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mycobacterium Tuberculosis (strain CDC 1551/Oshkosh) FBPC Protein (46-340 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Mycobacterium Tuberculosis
Source	E.coli
ProteinLength	46-340 aa
Description	The antigen 85 proteins (FbpA, FbpB, FbpC) are responsible for the high affinity of mycobacteria to 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.
Form	Tris-based buffer,50% glycerol
Molecular Mass	36.1 kDa
AA Sequence	AFSRPGLPVEYLQVPSASMGRDIKVQFQGGGPHAVYLLDGLRAQDDYNGWDINTP

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AFEEYYQSGLSVIMPVGGQSSFYTDWYQPSQSNGQNYTYKWETFLTREMPAWLQ
 ANKGVSPGTGNAAVGLSMSGGSALILAAAYPQQFPYAASLSGFLNPSEGWWPTLIGL
 AMNDSSGGYNANSMWGPSSDPAWKRNDPMVQIPRLVANNTRIWVYCGNGTPSDLG
 GDNIPAKFLEGLTLRTNQTFRDTYAADGGRNGVFNFPNGTHSWPYWNEQLVAMK
 ADIQHVLNGATPPAAPAAPAA

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name *fbpC* diacylglycerol acyltransferase/mycolyltransferase Ag85C [*Mycobacterium tuberculosis* H37Rv]

Official Symbol **FBPC**

Synonyms 85C; fbpC2; mpt45;

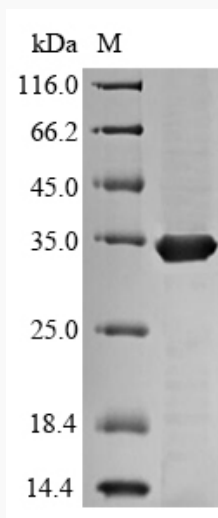
Gene ID 886885

UniProt ID P9WQN8

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

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