

Recombinant Mycobacterium tuberculosis mpt83 protein, His-tagged

Cat. No. mpt83-901M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

C-terminal 6xHis fusion protein of antigen MPT83(Rv2873) (M. Tuberculosis/H37Rv)(a.a.1-224) (Genbank Accession No. YP_003031039). Secreted and surface protein containing fasciclin-like repeats [Cell envelope biogenesis, outer membrane]

Species

Mycobacterium tuberculosis

Source

E.coli

ProteinLength

aa1-224

Description

Mycobacterium tuberculosis is an obligate pathogenic bacterial species in the family Mycobacteriaceae and the causative agent of tuberculosis. First discovered in 1882 by Robert Koch, M. tuberculosis has an unusual, waxy coating on its cell surface primarily due to the presence of mycolic acid. This coating makes the cells impervious to Gram staining, and as a result, M. tuberculosis can appear either Gram-negative or Gram-positive. Acid-fast stains such as Ziehl-Neelsen, or fluorescent stains such as auramine are used instead to identify M. tuberculosis with a microscope. The physiology of M. tuberculosis is highly aerobic and requires high levels of oxygen. Primarily a pathogen of the mammalian respiratory system, it infects the lungs. The most frequently used diagnostic methods for tuberculosis are the tuberculin skin test, acid-fast stain, culture, and polymerase chain reaction.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Each vial contains 100 g of lyophilized protein in PBS with 8M Urea. Reconstitute the protein with 100 µl of Millipore water.
Purity	>95%, based on SDS PAGE
Applications	WB standard, antibody ELISA, immunogen, etc.
Storage	Before reconstitution, stable for 1 year at -20°C from the date of shipment. After reconstitution, stable for a month at 4°C. Nonhazardous. No MSDS required.

GENE INFORMATION

Gene Name	mpt83 cell surface lipoprotein [<i>Mycobacterium tuberculosis</i> H37Rv]
Official Symbol	mpt83
Synonyms	mpt83; cell surface lipoprotein
Gene ID	887155
Protein Refseq	NP_217389.1
UniProt ID	I6YEL5

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