

# Recombinant Mycobacterium tuberculosis mpt70 protein, GST & His-tagged

**Cat. No.** mpt70-900M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | N-terminal GST fusion protein with C-terminal 6xHis tagged antigen Mpt70(Rv2875) (M. Tuberculosis/H37Rv)(a.a.1-197) (Genbank Accession No. NP_217391). Major secreted immunogenic proteinMPT70 precursor (see citations below). Also similar to downstream ORFQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Mycobacterium tuberculosis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | aa1-197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | <p>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.</p> |

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|                     |                                                                                                                                                               |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>         | Each vial contains 100 g of lyophilized protein in PBS with 8M Urea. Reconstitute the protein with 100 µof Millipore water.                                   |
| <b>Purity</b>       | >95%, based on SDS PAGE                                                                                                                                       |
| <b>Applications</b> | WB standard, antibody ELISA, immunogen, etc.                                                                                                                  |
| <b>Storage</b>      | 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

|                        |                                                                                     |
|------------------------|-------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | mpt70 major secreted immunogenic protein Mpt70 [ Mycobacterium tuberculosis H37Rv ] |
| <b>Official Symbol</b> | mpt70                                                                               |
| <b>Synonyms</b>        | mpt70; major secreted immunogenic protein Mpt70                                     |
| <b>Gene ID</b>         | 887724                                                                              |
| <b>Protein Refseq</b>  | NP_217391.1                                                                         |
| <b>UniProt ID</b>      | I6Y1X8                                                                              |

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