

Recombinant *Mycobacterium tuberculosis* esxA protein, GST & His-tagged

Cat. No. esxA-905M **Lot. No.** (See product label)

SPECIFICATION

Product Overview N-terminal GST fusion protein with C-terminal 6xHis fusion protein of antigen ESAT-6 (Rv3875) (*M. Tuberculosis*/H37Rv) (a.a.1-99) (Genbank Accession No. NP_217552). Early secretory antigenic target (see citations below), identical to Q57165|O84901| ESAT6 ea

Species *Mycobacterium tuberculosis*

Source E.coli

ProteinLength aa1-99

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.

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Form	Each vial contains 100 g of lyophilized protein in PBS with 8M Urea. Reconstitute the protein with 100 µof 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	esxA ESAT-6 protein EsxA [Mycobacterium tuberculosis H37Rv]
Official Symbol	esxA
Synonyms	esxA; ESAT-6 protein EsxA
Gene ID	886209
Protein Refseq	YP_178023.1
UniProt ID	B5TV89

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