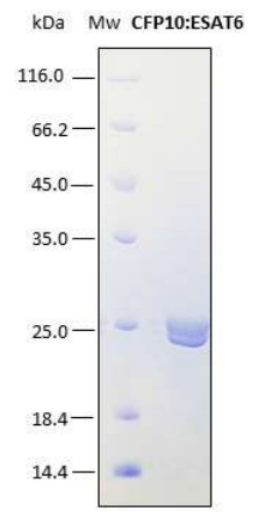
Recombinant M. tuberculosis EsxB and ESAT6 Antigen, His tagged

Cat. No. EsxB-017M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mycobacterium tuberculosis genes for the 10 kDa culture filtrate antigen EsxB (CFP10) and the ESAT6 protein have been expressed as a recombinant multiepitope chimeric antigen fused to a his-tag in its N terminus.
Species	M.tuberculosis
Source	E.coli
Description	CFP10:ESAT6 is a chimeric antigen formed by the proteins CFP10 and ESAT6. The 10 kDa culture filtrate protein, CFP10, is codified by the esxB gene. This protein determines the bacteria virulence and it is not present in non tuberculous mycobacteria (NTMs). This antigen has been used in TB diagnosis in many diagnostic platforms. The early secretory antigenic target 6, ESAT6, plays a role in the bacteria virulence forming a secretion complex 1:1 with the protein CFP10. This antigen has been used in TB diagnosis in many diagnostic platforms.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 25 and 18.4 kDa, while relative molecular mass calculated from amino acid sequence is 22,100.0 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis

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Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.
Storage Buffer	20 mM phosphate buffer pH 8 and 0.15 M NaCl
Concentration	2.23 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Bekmurzayeva A., Sypabekova M. and D. Kanayeva. Tuberculosis diagnosis using immunodominant, secreted antigens of Mycobacterium tuberculosis. 2013. Tuberculosis 93: 381-388. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Purity	

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SDS-PAGE analysis (15%) of 2 μL of recombinant CFP10:ESAT6. Purity is approx. 95% as determined by gel electrophoresis. The band which appears just below, corresponds to an in vivo N-terminus or C-terminus degradation product of this same protein, as it is showed in a western blot performed with a his-tag monoclonal antibody.

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