

TB CFP-10 Recombinant Protein | TBCFP-10 recombinant protein

Recombinant TB antigen CFP-10

CATALOG # AAA268927	HOST E Coli	APPLICATIONS Calibrator, Immunogen
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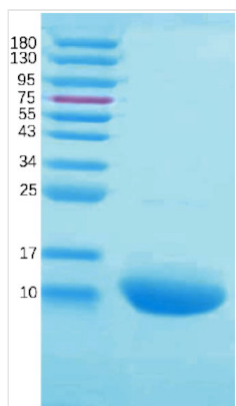
PRODUCT SYNONYMS

TB CFP-10; Recombinant TB antigen CFP-10; ESAT-6-like protein EsxB; 10kDa culture filtrate antigen CFP-10; CFP-10; TBCFP-10 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Affinity purification chromatography
Form/Format	Supplied as a 0.2uM filtered solution of PBS, pH 7.4
Applicable Applications for TBCFP-10 recombinant protein	Calibrator, Immunogen
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on Dry Ice. Reconstituted protein solution should be stored at $\leq -20^{\circ}\text{C}$. Shipping: The product is shipped on Dry Ice. Upon receipt, store immediately at the temperature as directed.

IMAGES



SDS-PAGE

SDS-PAGE of CFP-10 protein (Cat#: AAA268927).

ADDITIONAL INFORMATION

Related Product Information for TBCFP-10 recombinant protein	Description:Recombinant TB antigen CFP-10 is produced by our E.coli expression system and the target gene encoding Met1-Phe100 is expressed with a 6His tag at the C-terminus. Background: CFP-10,a secreted protein,acts as a strong host (human) T-cell antigen. Involved in translocation of bacteria from the host (human) phagolysosome to the host cytoplasm. Might serve as a chaperone to prevent uncontrolled membrane lysis by its partner EsxA; native protein binds poorly to artificial liposomes in the absence or presence of EsxA. EsxA and EsxA-EsxB are cytotoxic to pneumocytes. EsxB (and EsxA-EsxB but not EsxA alone) activates human neutrophils; EsxB transiently induces host (human) intracellular Ca2+ mobility in a dose-dependent manner, monocytes and lymphocytes do not respond. Neutrophils respond to EsxB by chemotaxis and primed neutrophils treated with EsxB produce reactive oxygen species (ROS); Ca2+ release and the ROS burst via are induced by an unidentified G-protein coupled receptor. May help regulate assembly and function of the type VII secretion system (T7SS).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	15611010
NCBI Accession #	NP_218391.1
NCBI GenBank Nucleotide #	NC_000962.3
UniProt Accession #	P9WNK5
Molecular Weight	10.7kDa. The apparent molecular mass of the protein is approximately 12-13kDa with 6XHis tag observed by reducing SDS-PAGE.
NCBI Official Full Name	ESAT-6-like protein EsxB
UniProt Protein Name	ESAT-6-like protein EsxB
UniProt Gene Name	esxB
UniProt Synonym Gene Names	cfp10; lhp; mtsA10
UniProt Entry Name	ESXB_MYCTU

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.