

CFP10-ESAT6 protein

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CATALOG # AAA27924	HOST E Coli	APPLICATIONS ELISA, Western Blot
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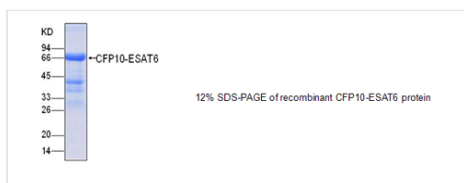
PRODUCT SYNONYMS

CFP10-ESAT6; CFP10-ESAT6 Protein; CFP10-ESAT6 protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>95% as analyzed by SDS-PAGE. The concentration is 2.6mg/ml
Form/Format	Purified protein solution after extensive dialysis against PBS, pH 7.4
Sequence	TEQQWNFAGI EAAASAIQGN VTSIHSLLE GKQSLTKLAA AWGGSGSEAY QGVQQKWDAT ATELNNALQN LARTISEAGQ AMASTEGNVT GMFAGTAEMK TDAATLAQEA GNFERISGDL KTQIDQVEST AGSLQGQWRG AAGTAAQAAV VRFQEAANKQ KQELDEISTN IRQAGVQYSR ADEEQQALS SQMGF
Applicable Applications for CFP10-ESAT6 protein	ELISA, WB (Western Blot), Antibody Production
Endotoxin	Less than 0.2 EU/ug determined by LAL test.
Species	Mycobacterium tuberculosis
Expression System	CFP10-ESAT6 fusion antigen, produced in E coli is a single non-glycosylated polypeptide chain containing 195 amino acids. A fully biologically active molecule has a molecular mass of 20.5kDa. The apparent molecular mass of the protein is approximately 21kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Preparation and Storage	Samples are stable for up to 12 months from date of receipt at -20C to -80C. It is recommended that the protein be aliquoted to optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for CFP10-ESAT6 protein	Mycobacterium antigen ESAT6 has been isolated from low molecular weight fractions of the short-term culture filtrate (ST-CF) and it can easily be detected in tuberculosis patients. The export of ESAT-6 which is a potent T-cell antigen, and related proteins requires a dedicated secretory apparatus that is encoded by a group of genes, several of which also code for proteins that are recognized strongly by T cells. The ESAT-6 systems can consequently be considered as immunogenicity islands and there is mounting evidence that the equivalent genes are subject to selective pressure imposed by the immune system of the host. This antigen includes many epitopes detectable in the serum of most patients with tuberculosis (more than 90%). By the attempts to obtain the vaccine on the basis of ESAT-6, it was demonstrated that the optimization of adjuvant is very important when using the combination of dioctadecylammonium bromide and monophosphoryllipide. ESAT-6 is very potential as diagnostic for differentiation between the mycobacterial infection and BCG vaccination. The main topic of ESAT-6 using is in antibody production and in test-systems for tuberculosis elaboration. Early secretory antigen 6 (ESAT6) and cell filtrate protein 10 (CFP10) are 2 antigens secreted as a complex by the replicating Mycobacterium tuberculosis complex (MTC).
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NCBI AND UNIPROT INFORMATION

UniProt Accession #	P9WNK7; ACF41170.1
Molecular Weight	20.5kDa. The apparent molecular mass of the protein is approximately 21kDa observed by reducing SDS-PAGE

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-protein/cfp10-esat6/27924>