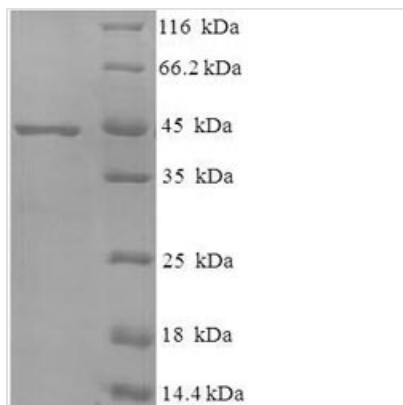




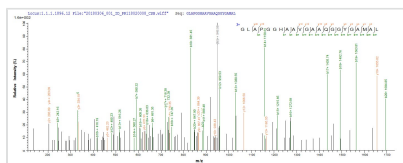
# Recombinant Mycobacterium tuberculosis

## MPT51/MPB51 antigen (mpt51)

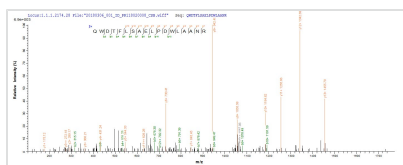
<b>Product Code</b>	CSB-EP363615MVZ
<b>Relevance</b>	May have a role in host tissue attachment, whereby ligands may include the serum protein fibronectin and small sugars.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P9WQN6
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	AEPTAKAAPYENLMVPSPSMGRDIPVAFLAGGPHAVYLLDAFNAGPDVSNWV TAGNAMNTLAGKGISVVAPAGGAYSMYTNWEQDGSQWDTFLSAELPDWLA ANRGLAPGGHAAVGAAQGGYGAMALAAFHPDRFGFAGSMSGFLYPSNTTTN GAIAAGMQQFGGVDTNGMWGAPQLGRWKWHDPPVHASLLAQNNTRVWVW SPTNPGASDPAAMIGQAAEAMGNSRMFYNQYRSVGGHNGHFDFFPASGDNG WGSWAPQLGAMSGDIVGAIR
<b>Lead Time</b>	3-7 business days
<b>Research Area</b>	Others
<b>Source</b>	E.coli
<b>Gene Names</b>	mpt51
<b>Expression Region</b>	27-299aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	44.5kDa
<b>Protein Description</b>	Full Length of Mature Protein
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP363615MVZ could indicate that this peptide derived from E.coli-expressed Mycobacterium tuberculosis mpt51.



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## Description

Constructing a plasmid encoding the Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) mpt51 protein (27-299aa) is the initial step in the general approach to express the recombinant Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) mpt51 protein. The plasmid is then transformed into e.coli cells. Positive e.coli cells are selected and cultured, protein expression is induced, and cells are lysed. The protein is fused with a N-terminal 6xHis-SUMO tag. The resulting recombinant Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) mpt51 protein is then purified through affinity purification, and SDS-PAGE analysis is carried out to verify the presence and assess the purity of the protein. Its purity exceeds 90%.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.