

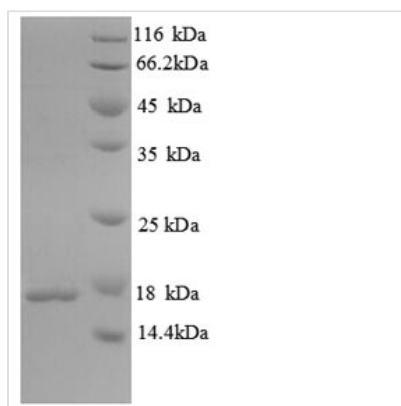


Recombinant Mycobacterium tuberculosis

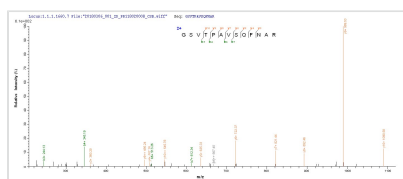
Immunogenic protein MPT63 (mpt63)

Product Code	CSB-EP358712GKB
Abbreviation	Recombinant Mycobacterium tuberculosis mpt63 protein
Storage	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.
Uniprot No.	P9WIP0
Alias	16 kDa immunoprotective extracellular protein Antigen MPT63
Product Type	Recombinant Protein
Immunogen Species	Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AYPITGKLGSELTMTDTVGQVVLGWKVSDDLKSSSTAVIPGYPVAGQVWEATATV NAIRGSVTPAVSQFNARTADGINYRVLWQAAGPDTISGATIPQGEQSTGKIYFD VTGPSPTIVAMNNGMEDLLIWEF
Research Area	Others
Source	E.coli
Target Names	mpt63
Expression Region	30-159aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	17.7kDa
Protein Length	Full Length of Mature Protein

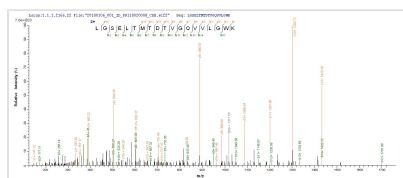
Image



(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-RP149074BA(A3) could indicate that this peptide derived from E.coli-expressed Mycobacterium tuberculosis mpt63.



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Description

In e.coli cells, the generation of recombinant Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) mpt63 protein involves cloning a DNA fragment encoding the Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) mpt63 protein (30-159aa) into a plasmid vector, which is then transferred into the e.coli cells. Positive cells are selected, cultured, and induced to express the mpt63 protein. A N-terminal 6xHis tag is attached to the protein. Lysis of the cells allows for the harvest of the recombinant Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) mpt63 protein. The collected recombinant Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh) mpt63 protein is subjected to affinity purification and is identified using SDS-PAGE and subsequent staining of the gel with Coomassie Brilliant Blue. Its purity is greater than 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.

Shelf Life

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