

Recombinant strain CDC 1551 / Oshkosh mpt51 Protein Product Manual

1. Product Basic Information

Product No.: REP07490

Protein Name: Mpt51/Mpb51 Antigen (mpt51)

Aliases: MPT51/MPB51 antigen

UniProt ID: P9WQN7

UniProt Link: <https://www.uniprot.org/uniprotkb/P9WQN7/entry>

Species Source: Mycobacterium tuberculosis (strain CDC 1551 / Oshkosh)

Expression System: E.coli

Protein Length: Full Length of Mature Protein (27-299aa)

Molecular Weight: 44.5kDa

Protein Tag: N-terminal 6xHis-SUMO-tagged

2. Amino Acid Sequence (27-299aa)

AEPTAKAAPYENLMVPSPSMGRDIPVAFLAGGPHAVYLLDAFNAGPDVSNWVTAG
NAMNTLAGKGISVVAPAGGAYSMTNWEQDGSQWDTFLSAELPDWLAANRGLA
PGGHAAVGAAQGGYGAMALAAFHDPDRFGFAGSMGFLYPSNTTTNGAIAAGMQQ
FGGVDNTNGMWGAPQLGRWKWHDPWVHASLLAQNNTRVWWWSPTNPGASDPAA
MIGQAAEAMGNSRMFYNQYRSVGGHNGHFDFFASGDNGWGSWAPQLGAMSGDI
VGAIR

3. Storage Buffer

Liquid Delivery Form: Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

Lyophilized Powder Delivery Form: Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

5. Product Description

This product is a recombinant strain CDC 1551 / Oshkosh mpt51 full length of mature protein protein (27-299aa) expressed in E.coli. The protein is with 6xHis-SUMO tag at the N-terminus, which facilitates protein purification, detection and identification. mpt51, also known as MPT51/MPB51 antigen, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.