

## Mpt64, Recombinant Protein Reference Standard

### Catalog No. NR-44102

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### For research use only. Not for human use.

#### Contributor:

BEI Resources

#### Manufacturer:

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#### Product Description:

NR-44102 is a recombinant form of the secreted immunogenic protein Mpt64 (also referred to as mpb64) from *Mycobacterium tuberculosis*.<sup>1</sup> The recombinant protein consists of the native protein sequence in addition to a hexahistidine tag. Mpt64 was expressed in *Escherichia coli* and purified using standard chromatographic techniques followed by endotoxin removal procedures.

**Note:** This protein is provided as a reference standard and should be ordered with the corresponding plasmid (pMRLB.12; NR-13273).

#### Material Provided:

Each vial contains approximately 1 mg of lyophilized NR-44102 in 10 mM ammonium bicarbonate.

**Note:** NR-44102 is soluble in 100 mM to 500 mM aqueous buffered salt solutions, such as phosphate buffered saline. A 10 mM ammonium bicarbonate solution can also be used.

#### Packaging/Storage:

NR-44102 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

#### Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Mpt64, Recombinant Protein Reference Standard, NR-44102."

#### Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

#### Disclaimers:

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#### References:

1. TubercuList: [Rv1980c](#)
2. Oettinger, T. and A. B. Anderson. "Cloning and B-cell-epitope mapping of MPT64 from *Mycobacterium tuberculosis* H37Rv." *Infect. Immun.* 62 (1994): 2058-2064. PubMed: 7513311.
3. Wang, Z., et al. "The solution structure of antigen MPT64 from *Mycobacterium tuberculosis* defines a new family of betagrasp proteins." *J. Mol. Biol.* 266 (2007): 375-381. PubMed: 17174329.

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