

Mpt64, Recombinant Protein Reference Standard

Catalog No. NR-49435

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Contributor and Manufacturer:

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Product Description:

NR-49435 is a recombinant form of the secreted immunogenic protein Mpt64 (also referred to as mpb64) from *Mycobacterium tuberculosis*.¹ 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 of NR-49435 contains approximately 1 mg of lyophilized protein in 10 mM ammonium bicarbonate.

Note: NR-49435 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-49435 was packaged aseptically in glass serum vials. 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-49435."

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/bmb15/index.htm.

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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 Betagrass Proteins." *J. Mol. Biol.* 266 (2007): 375-381. PubMed: 17174329.

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