

Product Information Sheet for NR-49435

Mpt64, Recombinant Protein Reference Standard

Catalog No. NR-49435

This reagent is the tangible property of the U.S. Government.

For research use only. Not for use in humans.

Contributor and Manufacturer:

BEI Resources

Product Description:

NR-49435 is a recombinant form of the secreted immunogenic protein Mpt64 (also referred to as mpb64) from *Mycobacterium tuberculosis*. 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 lot 70043621 contains approximately 275 µg of lyophilized Mpt64 in 10 mM ammonium bicarbonate. Each vial of lot 70006290 contains approximately 1 mg of lyophilized Mpt64 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 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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

- 1. MycoBrowser: Rv1980c
- Oettinger, T. and A. B. Anderson. "Cloning and B-Cell-Epitope Mapping of MPT64 from Mycobacterium tuberculosis H37Rv." <u>Infect. Immun.</u> 62 (1994): 2058-2064. PubMed: 7513311.
- Wang, Z., et al. "The Solution Structure of Antigen MPT64 from Mycobacterium tuberculosis Defines a New Family of Betagrasp Proteins." <u>J. Mol. Biol.</u> 266 (2007): 375-381. PubMed: 17174329.

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