

**ML0050/CFP-10 Recombinant Protein from *Mycobacterium leprae***

**Catalog No. NR-19335**

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**Contributor:**

BEI Resources

**Manufacturer:**

Karen Dobos, PhD., Colorado State University, Fort Collins, Colorado, USA

**Product Description:**

NR-19335 is a recombinant form of a culture filtrate protein (ML0050/CFP-10) from *Mycobacterium leprae*. The recombinant His-tagged protein was expressed in *Escherichia coli*, strain BL21(DE3)pLysS and purified using standard chromatographic techniques followed by endotoxin removal procedures. NR-19335 has a molecular weight of approximately 10 kDa.

**Material Provided:**

Each vial contains approximately 500 µg of lyophilized NR-19335 in 10 mM ammonium bicarbonate.

Note: NR-19335 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-19335 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: ML0050/CFP-10 Recombinant Protein from *Mycobacterium leprae*, NR-19335."

**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).

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**References:**

1. Lahiri, R., et al. "Development of a Mouse Foot Pad Model for Detection of Sub Clinical Leprosy." [Lepr. Rev.](#) 83 (2011): 432-444. PubMed: 22439282.
2. Spencer, J. S., et al. "Identification of Specific Proteins and Peptides in *Mycobacterium leprae* Suitable for the Selective Diagnosis of Leprosy." [J. Immunol.](#) 175 (2005): 7930-7938. PubMed: 16339528.

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