

ML2028/Ag85B Recombinant Protein from *Mycobacterium leprae*

Catalog No. NR-49431

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Contributor and Manufacturer:

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Product Description:

NR-49431 is a recombinant form of the antigen 85B protein (ML2028/Ag85B) [also known as fibronectin-binding protein B (FbpB)] from *Mycobacterium leprae*. The recombinant His-tagged protein was expressed in *Escherichia coli*, strain BL21(DE3)pLysS and purified using immobilized-metal affinity chromatography.

Note: This protein is provided as a reference standard and should be ordered with the corresponding plasmid (pMRLB76; NR-19392).

Material Provided:

Each vial contains approximately 200 µg of ML2028/Ag85B recombinant protein in 20 mM ammonium bicarbonate containing 20% glycerol.

Note: NR-49431 is soluble in 100 mM to 500 mM aqueous buffered salt solutions, such as phosphate buffered saline (PBS). A 10 mM ammonium bicarbonate solution can also be used.

Packaging/Storage:

NR-49431 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -20°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: ML2028/Ag85B Recombinant Protein from *Mycobacterium leprae*, NR-49431.”

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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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.* 82 (2011): 432-444. PubMed: 22439282.
2. Spencer, J. S., et al. “Analysis of Antibody Responses to *Mycobacterium leprae* Phenolic Glycolipid I, Lipoarabinomannan, and Recombinant Proteins to Define Disease Subtype-Specific Antigenic Profiles in Leprosy.” *Clin. Vaccine Immunol.* 18 (2011): 260-267. PubMed: 21177913.

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