ML0380/GroES Recombinant Protein from *Mycobacterium leprae*

Catalog No. NR-19336

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For research use only. Not for human use.

Contributor and Manufacturer:

NIH – Leprosy Research Support Contract

Product Description:

NR-19336 is a recombinant form of the chaperonin protein (ML0380/GroES) [also known as major cytoplasmic protein (MCP)] from *Mycobacterium leprae*. The recombinant His-tagged protein was expressed in *Escherichia coli*, strain BL21 and purified using standard chromatographic techniques followed by endotoxin removal procedures. NR-19336 has a molecular weight of approximately 10 kDa.

Material Provided:

Each vial contains approximately 0.5 mg of lyophilized NR-19336.

Packaging/Storage:

NR-19336 was packaged aseptically in screw-cap 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: ML0380/GroES Recombinant Protein from *Mycobacterium leprae*, NR-19336."

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.

Disclaimers:

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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. Mehra, V., et al. "A Major T Cell Antigen of *Mycobacterium leprae* is a 10-kD Heat-Shock Cognate Protein." J. Exp. Med. 175 (1992): 275-284. PubMed: 1730920.
3. 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.
4. 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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