

# ***Mycobacterium leprae*, ND-O-BSA (PGL-I-Based Glycoconjugate of Bovine Serum Albumin)**

## **Catalog No. NR-59498**

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

**For research use only. Not for use in humans.**

### **Contributor:**

BEI Resources

### **Manufacturer:**

Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA

### **Product Description:**

NR-59498 is a synthetic phenolic glycolipid-I (PGL-I) made using the serologically active terminal disaccharide (ND; natural disaccharide) portion of PGL-I from *Mycobacterium leprae* (*M. leprae*) linked to bovine serum albumin (BSA) via an octyl linker arm.

PGL-I is unique to *M. leprae* where it is produced in copious amounts. It plays a role in the invasion of human nerves by binding to the receptors on the Schwann cells. PGL-I causes a specific antibody to be produced in the sera of leprosy patients.<sup>1</sup>

### **Material Provided:**

Each vial contains approximately 250 µg of lyophilized ND-O-BSA fraction.

Note: NR-59498 can be reconstituted in sterile phosphate buffered saline, pH 7.2, or another suitable buffer.

### **Packaging/Storage:**

NR-59498 was packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Reconstituted material should be aliquoted and stored frozen at -80°C or colder. Freeze-thaw cycles should be avoided.

### **Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: *Mycobacterium leprae*, ND-O-BSA (PGL-I-Based Glycoconjugate of Bovine Serum Albumin), NR-59498."

### **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.

### **Disclaimers:**

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### **References:**

1. Zhang, J., et al. "A Modified Synthesis and Serological Evaluation of Neoglycoproteins Containing the Natural Disaccharide of PGL-I from *Mycobacterium leprae*." [Bioorg. Med. Chem. Lett.](#) 20 (2010): 3250-3253. PubMed: 20462755.

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