

Mycobacterium leprae, ND-O-HSA (PGL-I-Based Glycoconjugate of Human Serum Albumin)

Catalog No. NR-59499

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-59499 is a synthetic phenolic glycolipid-I (PGL-I) made using the serologically active terminal disaccharide (ND; natural disaccharide) portion of phenolic glycolipid-I (PGL-I) linked to human serum albumin (HSA) via an octyl linker arm.

PGL-I is unique to *Mycobacterium leprae* (*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.¹

Material Provided:

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

Note: NR-59499 can be reconstituted in sterile phosphate buffered saline, pH 7.2, or another suitable buffer.

Packaging/Storage:

NR-59499 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-HSA (PGL-I-Based Glycoconjugate of Human Serum Albumin), NR-59499."

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:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale. This material may be subject to third party patent rights.

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.

ATCC® is a trademark of the American Type Culture Collection.

