GroES (Gene Rv3418c), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv

**Catalog No. NR-14861**
This reagent is the tangible property of the U.S. Government.

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

**Contributor:**
BEI Resources or NIH - TB Vaccine Testing and Research Materials Contract

**Manufacturer:**
Karen Dobos, Ph.D., Colorado State University, Fort Collins, Colorado, USA and NIH - TB Vaccine Testing and Research Materials Contract

**Product Description:**
NR-14861 is a preparation of the GroES (Gene Rv3418c) purified native proteins from the culture filtrate of *Mycobacterium tuberculosis*, strain H37Rv. A supernatant from a 40% saturated ammonium sulfate precipitation of culture filtrate proteins were precipitated with 70% saturated ammonium sulfate. The pellet was suspended and dialyzed. The material that did not bind to the concanavalin A column was resolved by reversed phase HPLC and the fractions containing GroES homologue were pooled and lyophilized.

**Material Provided:**
Each vial contains approximately 500 µg of lyophilized, purified GroES in 10 mM ammonium bicarbonate.

**Note:** NR-14861 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-14861 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: GroES (Gene Rv3418c), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv, NR-14861."

**Biosafety Level:**
1

**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](http://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. MycoBrowser: [Rv3418c](http://www.beiresources.org/products/nr14861)

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