

α -Crystallin (Gene Rv2031c), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv

Catalog No. NR-59577

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 and NIH - TB Vaccine Testing and Research Materials Contract

Product Description:

NR-59577 is a preparation of α -crystallin derived from the whole cell lysate of irradiated *Mycobacterium tuberculosis* (*M. tuberculosis*), strain H37Rv. *M. tuberculosis* whole cell lysate was extracted with 0.1% n-octylthioglucoside and fractionated by isoelectric focusing. Fractions containing 16 kDa proteins were cleaned by size exclusion chromatography and dialyzed against 10 mM ammonium bicarbonate.

Material Provided:

Each vial contains approximately 100 μ g of lyophilized α -crystallin in 10 mM ammonium bicarbonate.

Note: NR-59577 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-59577 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: α -Crystallin (Gene Rv2031c), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv, NR-59577."

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. Lee, B. Y., S. A. Hefta and P. J. Brennan. "Characterization of the Major Membrane Protein of Virulent *Mycobacterium tuberculosis*." *Infect. Immun.* 60 (1992): 6234-6239. PubMed: 1563797.
2. Cole, S. T., et al. "Deciphering the Biology of *Mycobacterium tuberculosis* from the Complete Genome Sequence." *Nature* 393 (1998): 537-544. PubMed: 9634230. Erratum in: *Nature* 396 (1998): 190-198.
3. MycoBrowser: [Rv2031c](#)

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

