

PstS1 (Gene Rv0934, Non-Acylated), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv

Catalog No. NR-53528

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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-53528 is a preparation of periplasmic phosphate-binding lipoprotein, PstS1 (Gene Rv0934, non-acylated; also referred to as PhoS1), purified from the culture filtrate of *Mycobacterium tuberculosis*, strain H37Rv. The proteins soluble in 40% ammonium sulfate were precipitated by 70% saturated ammonium sulfate solution, suspended in ConA binding buffer and applied to a ConA column. ConA elution buffer, containing alpha-D-mannopyranoside, was used to elute the bound proteins. The bound material was applied to a phenyl sepharose column and eluted using a gradient of decreasing ammonium sulfate. Fractions containing pure 38kDa were pooled and dialyzed.

Note: The cell wall-associated and culture filtrate forms of PhoS1 seem to differ in their hydrophobic characteristics. However, it has not been determined if there is a chemical difference between the cell wall and culture filtrate forms of the PhoS1 homologue.

Material Provided:

Each vial contains approximately 100 µg of lyophilized, purified NR-53528 in 10 mM ammonium bicarbonate.

Note: PstS1 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-53528 was packaged aseptically in cryovials. The product is provided frozen on blue 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: PstS1 (Gene Rv0934, Non-Acylated), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv, NR-53528."

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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmb15/index.htm.

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References:

1. MycoBrowser: [Rv0934](#)

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