

**MPT32/Apa (Gene Rv1860), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv**

**Catalog No. NR-14862**

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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 or NIH - TB Vaccine Testing and Research Materials Contract

**Product Description:**

NR-14862 is a preparation of native MPT32/Apa (Gene Rv1860) purified from irradiated *Mycobacterium tuberculosis*, strain H37Rv culture filtrate protein fraction. The culture filtrate protein fraction was precipitated with 40% ammonium sulfate, applied to a ConA column, eluted, concentrated, dialyzed, applied to a phenyl sepharose column and eluted. The purified MPT32/Apa was dialyzed in 10 mM ammonium bicarbonate.

Note: MPT32/Apa appears as a doublet by SDS-PAGE. The major component is 45 kDa and the minor component is a 42 kDa degradation product. The mature protein has a calculated molecular weight of 30.2 kDa, however the abundance of proline residues along with glycosylation causes this molecule to migrate at 45 kDa by SDS-PAGE.

**Material Provided:**

Each vial contains approximately 500 µg of lyophilized MPT32/Apa in 10 mM ammonium bicarbonate.

Note: NR-14862 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-14862 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: MPT32/Apa (Gene Rv1860), Purified Native Protein from *Mycobacterium tuberculosis*, Strain H37Rv, NR-14862."

**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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. MycoBrowser: [Rv1860](#)

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