

# Recombinant Treponema pallidum Tpp15 Antigen, His&GST tagged

**Cat. No.** Tpp15-053T    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The Tpp15 recombinant lipoprotein has been prepared by expressing the ORF of the corresponding gene which codifies the mature lipoprotein of 15 kDa of the spirochete Treponema pallidum.                                                                           |
| <b>Species</b>          | Treponema pallidum                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                              |
| <b>Description</b>      | Tpp15 is a 15 kDa major membrane immunogen of the bacterium Treponema pallidum. It is a major immunogen during natural syphilis infection in humans. This lipoprotein has been reconised as a sensitive antigenic target for IgM responses in congenital infection. |
| <b>Tag</b>              | N-His&GST                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | Determined by SDS-PAGE, the protein band is between molecular markers of 35-45 kDa, while relative molecular mass calculated from amino acid sequence is 46,377.6 Da.                                                                                               |
| <b>Purity</b>           | > 95% by observation on SDS-PAGE electrophoresis                                                                                                                                                                                                                    |
| <b>Applications</b>     | WB, DB, IE, DE, CLIA, LF                                                                                                                                                                                                                                            |
| <b>Storage</b>          | Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and                                                                                                                                                                              |

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stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.

**Storage Buffer** 20 mM phosphate buffer pH 8 and 0.15 M NaCl

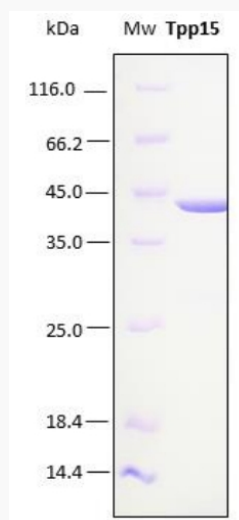
**Concentration** 1.29 mg/mL

**Shipping** Protein is shipped with dry ice.

**Reference**

1. Purcell BK, Swancutt MA and Radolf JD. 1990. Lipid modification of the 15 kilodalton major membrane immunogen of *Treponema pallidum*. Mol. Microbiol., 4:1371- 1379.
2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.

**Purity**



SDS-PAGE analysis (15%) of 3 µL of recombinant Tpp15. Purity is > 98% as determined by gel electrophoresis.

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