

# Recombinant Treponema pallidum TPP15 protein, &beta;-gal-tagged

**Cat. No.** TPP15-273T    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Overview</b> | The E.Coli derived recombinant protein contains the Trp. Pallidum p15 immunodominant regions. The protein contains beta-galactosidase (114kDa) fused at the N-terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Treponema pallidum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Treponema pallidum is a gram-negative spirochaete bacterium and is considered to be metabolically crippled. There are at least four known subspecies: T. pallidum pallidum, T. pallidum pertenue, T. pallidum carateum and T. pallidum endemicum. The helical structure of T. pallidum pallidum allows it to move in a corkscrew motion through viscous mediums such as mucus. Treponema pallidum sub sp. pallidum has one of the smallest bacterial genomes at 1.14 million base pairs (Mb) and has limited metabolic capabilities, reflecting its adaptation through genome reduction to the rich environment of mammalian tissue. |
| <b>Form</b>             | 20mM Tris-HCl pH-8, 10mM B-ME and 8M urea.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | Treponema Pallidum protein is >95% pure as determined by 10% PAGE (coomassie staining).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>     | Treponema Pallidum protein is suitable for ELISA and Western blots, excellent antigen for detection of Trp. Pallidum with minimal specificity problems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage</b>       | The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals. |
| <b>Specificity</b> | Immunoreactive with sera of Trp. Pallidum infected individuals.                                                                                                                |
| <b>Storage</b>     | Protein should be stored at 4°C.<br>Refrigerate Upon arrival. DO NOT FREEZE.                                                                                                   |
| <b>Shipping</b>    | Ice Packs                                                                                                                                                                      |

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