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Product Data Sheet

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Cat # RP-1446      Recombinant Treponema pallidum TmpA (partial)

**Size:** 100 ug

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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 pertenuis, 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.

**USAGE:**

This item is for LABORATORY RESEARCH USE ONLY.

RP-1446

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**SOURCE:**

The E.Coli derived 68kDa recombinant protein contains the Trp. Pallidum TmpA immunodominant regions, 23-41 amino acids and 288-325 amino acids. 10mM Tris-HCl pH8.0, 20mM DDT, 1mM EDTA and 8M urea.

**APPLICATION AND SUGGESTED DILUTIONS:**

This protein binds to murine anti-TmpA protein monoclonal antibodies and Treponema pallidum converted human serum polyclonal antibodies in ELISA and Western Elisa. Dot Blots and Lateral Flow immunochromatographic diagnostics test. Protein is >95% pure as determined by 10% PAGE (coomassie staining). Immunoreactive with sera of Trp. Pallidum infected individuals. Users must optimize the appropriate concentration and conditions for each assay.

**STORAGE & STABILITY:**

Protein is shipped at ambient temperature. Upon arrival, Store at -20°C. Five years frozen. One month in solution at room temperature. If supplied in powder then reconstitute it in 100ul water for 1mg/mL stock and store in liquied at 4oC for ~ 1week or aliquots in suitable size and store at -20oC for long term storage.

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