

Product Data Sheet

Cat # RP-1444

Recombinant Treponema pallidum p47 ( partial)

**Size:** 100 ug

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 subsp. 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. Immunoreactive with sera of T. Pallidum infected individuals.

**USAGE:**

This item is for LABORATORY RESEARCH USE ONLY.

RP-1444

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**SOURCE:**

The E.Coli derived recombinant protein contains the T. Pallidum p47 immunodominant regions. The protein contains beta-galactosidase (114 kDa) fused at the N- terminus. 8M urea, 20mM Tris-HCl pH-8 and 10mM B-ME.

**APPLICATION AND SUGGESTED DILUTIONS:**

Treponema Pallidum protein is suitable for ELISA and Western blots, excellent antigen for detection of T. Pallidum with minimal specificity problems. Treponema Pallidum protein is >90% pure as determined by 10% PAGE (coomassie staining). Users must optimize the appropriate concentration and conditions for each assay.

**STORAGE & STABILITY:**

Treponema Pallidum 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 liquid at 4°C for ~ 1week or aliquots in suitable size and store at -20°C for long term storage.

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