

Recombinant Treponema pallidum p41

Catalog No.	CSI15898A	Quantity:	100 µg
	CSI15898B		0.5 mg
	CSI15898C		1.0 mg

Description: 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.

The *E. coli* derived recombinant protein contains the outer membrane T.Pallidum p41 immunodominant regions. The protein is fused with a Beta-galactosidase tag.

Source: *E. coli*

Formulation: 10 mM Tris-HCl, pH 8.0 + 1 mM EDTA + 1 mM DTT and 8M urea.

Purity: Treponema Pallidum protein protein is >90% pure as determined by 10% PAGE (coomassie staining).

Purification Method: Treponema Pallidum protein was purified by proprietary chromatographic technique.

Specific Activity: Immunoreactive with sera of T. Pallidum infected individuals.

Applications: Treponema Pallidum protein is suitable for ELISA and Western blots, excellent antigen for detection of Trp. Pallidum with minimal specificity problems.

Storage & Stability: Treponema Pallidum protein although stable at 4°C for 1 week, should be stored below -18°C.

Please prevent freeze thaw cycles.

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