

Recombinant *Treponema pallidum* TmpA (partial)

Catalog No.	CSI15901A	Quantity:	100 µg
	CSI15901B		0.5 mg
	CSI15901C		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 68 kDa recombinant protein contains the Trp. Pallidum TmpA immunodominant regions, 23-41 amino acids and 288-325 amino acids.

Source: *E. coli*

Molecular Weight: 68 kDa

Formulation: 25 mM Tris-HCl, pH-8 + 60 mM NaCl + 50% glycerol.

Purity: Protein is >95% pure as determined by 10% PAGE (coomassie staining).

Purification Method: Purified by proprietary chromatographic technique.

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

Applications: This protein binds to mouse 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.

Storage & Stability: Protein is shipped at ambient temperature.
Upon arrival, Store at -20°C.
Stability: Five years frozen. One month in solution at room temperature.

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