

Recombinant *Treponema pallidum* TPTMPA protein

Cat. No. TPTMPA-283T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The E.Coli derived 68kDa recombinant protein contains the Trp. Pallidum TmpA immunodominant regions, 23-41 amino acids and 288-325 amino acids.
Species	<i>Treponema pallidum</i>
Source	E.coli
ProteinLength	23-41;288-325 a.a.
Description	<i>Treponema pallidum</i> is a gram-negative spirochaete bacterium and is considered to be metabolically crippled. There are at least four known subspecies: <i>T. pallidum pallidum</i>, <i>T. pallidum pertenue</i>, <i>T. pallidum carateum</i> and <i>T. pallidum endemicum</i>. The helical structure of <i>T. pallidum pallidum</i> allows it to move in a corkscrew motion through viscous mediums such as mucus. <i>Treponema pallidum</i> sub sp. <i>pallidum</i> 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.
Form	10mM Tris-HCl pH8.0, 20mM DDT, 1mM EDTA and 8M urea.
Molecular Mass	68kDa
Purity	Protein is >95% pure as determined by 10% PAGE (coomassie staining).
Applications	This protein binds to murine anti-TmpA protein monoclonal antibodies and

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Treponema pallidum converted human serum polyclonal antibodies in ELISA and Western Elisa. Dot Blots and Lateral Flow immunochromatographic diagnostics test.

Usage

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.

Specificity

Immunoreactive with sera of Trp. Pallidum infected individuals.

Storage

T.pallidum TmpA partial although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Shipping

Ice Packs

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