

## Active Recombinant *Treponema pallidum* TmpA protein

**Cat. No.** TmpA-249    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant <i>Treponema pallidum</i> TmpA containing beta-galactosidase (114 kDa) fused at the N-terminus and <i>T.Pallidum</i> TmpA immunodominant regions was expressed in <i>E. coli</i> .
<b>Species</b>	<i>Treponema pallidum</i>
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	<p><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 pertenuis</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.</p>
<b>Form</b>	8M urea, 20mM Tris-HCl pH-8 & 10mM B-ME.
<b>Bio-activity</b>	Immunoreactive with sera of <i>T.Pallidum</i> infected individuals.
<b>Purity</b>	<i>Treponema Pallidum</i> protein is >90% pure as determined by 10% PAGE (coomassie staining).
<b>Applications</b>	<i>Treponema Pallidum</i> protein binds to murine anti-TmpA protein monoclonal

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

**Storage**

Treponema Pallidum protein although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

## GENE INFORMATION

**Gene Name**

TP\_RS03875 membrane protein (tmpA) [ Treponema pallidum subsp. pallidum str. Nichols ]

**Official Symbol**

TP\_RS03875

**Synonyms**

membrane protein (tmpA)

**Gene ID**

2611383

**mRNA Refseq**
**Protein Refseq**
**MIM**
**UniProt ID**

P07643

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA