

Active Recombinant *Treponema pallidum* TmpA protein

Cat. No. TmpA-250 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Treponema pallidum</i> TmpA containing the Trp. <i>Pallidum</i> TmpA immunodominant regions, 23-41 amino acids and 288-325 amino acids, was expressed in <i>E. coli</i> .
Species	<i>Treponema pallidum</i>
Source	<i>E. coli</i>
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.
Bio-activity	Immunoreactive with sera of Trp. <i>Pallidum</i> infected individuals.
Purity	Protein is >95% pure as determined by 10% PAGE (coomassie staining).

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Storage

T.pallidum TmpA partial 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

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