

Active Recombinant *Treponema pallidum* p47 protein

Cat. No. p47-248 Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant <i>Treponema pallidum</i> p47 containing beta-galactosidase (114 kDa) fused at the N-terminus and T.Pallidum p47 immunodominant regions was expressed in <i>E. coli</i> .
Species	<i>Treponema pallidum</i>
Source	<i>E.coli</i>
Description	<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> subsp. <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>
Form	8M urea, 20mM Tris-HCl pH-8 and 10mM B-ME.
Bio-activity	Immunoreactive with sera of T.Pallidum infected individuals.
Purity	<i>Treponema Pallidum</i> protein is >90% pure as determined by 10% PAGE (coomassie staining).
Applications	<i>Treponema Pallidum</i> protein is suitable for ELISA and Western blots, excellent

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antigen for detection of T.Pallidum with minimal specificity problems.

Storage

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

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