

Recombinant Treponema pallidum p47 protein

SPECIFICATION

Cat.No.	p47-248
Species	Treponema pallidum
Product Name	Recombinant Treponema pallidum p47 protein
Product Overview	Recombinant Treponema pallidum p47 containing beta-galactosidase (114 kDa) fused at the N-terminus and T.Pallidum p47 immunodominant regions was expressed in E. coli
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 pertenue, 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 subsp. 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.
Source	E. coli
Form	8M urea, 20mM Tris-HCl pH-8 and 10mM B-ME.
Bio-activity	Immunoreactive with sera of T.Pallidum infected individuals.
Purity	Treponema Pallidum protein is >90% pure as determined by 10% PAGE (coomassie staining).
Applications	Treponema Pallidum protein is suitable for ELISA and Western blots, excellent 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.