

Recombinant Treponema Pallidum Major Membrane Immunogen p47

Catalog No.	CSI14100	Quantity:	100 µg
Description:	The protein contains the <i>Treponema pallidum</i> p47 immunodominant regions.		
Source:	<i>E. coli</i>		
Formulation:	Liquid. Supplied in 10 mM Tris-HCl pH 8.0 + 1 mM EDTA + 1 mM DTT and 8 M urea.		
Purity:	>90% by SDS-PAGE		
Purification:	The protein is purified by proprietary chromatographic technique.		
Specific Activity:	Immunoreactive with sera of <i>T. pallidum</i> infected individuals.		
Application:	Antigen in ELISA and Western blots, excellent antigen for detection of <i>T. pallidum</i> with minimal specificity problems.		
Storage & Stability:	Stable for 1 year in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.		
Background:	<p>Syphilis is a chronic, complex sexually transmitted disease of humans caused by the spirochetal bacterium <i>Treponema pallidum</i>. Humans are the only known reservoir for <i>T. pallidum</i>.</p> <p>TRP-p47 is the major 47-kDa membrane lipoprotein and dominant immunogen of <i>T. pallidum</i>, and it is a penicillin-binding protein (PBP).</p> <p>TRP-p47 is capable of stimulating HDMEC (human dermal microvascular endothelial cells) to increase the expression of ICAM-1, VCAM-1 and E-selectin and thereby, promote the adherence of T-lymphocytes.</p> <p>The whole process may play an important role in the immunopathogenesis of syphilis and it is likely that TNF-α and IL-1α are involved.</p>		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.