

Syphilis

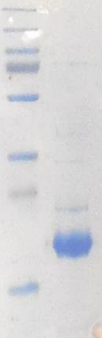
Product – rTp15 (Syphilis)

	Description Among the periplasmic lipoproteins, Tp15 is encoded by the <i>tpp15</i> gene, with a molecular weight of 15 kDa. Previous studies showed that Tp15 was a strong membrane immunogen, reacting intensely with human syphilitic sera [3]. Tp15, along with Tp17, Tp47, and other specific <i>T. pallidum</i> antigens, are used to diagnose syphilis [6], [7] and [8]. Technical Data This protein is recombinant Tp15 from <i>Treponema pallidum</i> expressed in <i>Escherichia coli</i>. It is purified by Immobilized metal ion affinity chromatography. The protein's theoretical size is 15Kda. This protein is 6 His tagged. A192516-03 : 1mg/ml Other quantities and buffer available on request
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Product – rTp47 (Syphilis)

	Description Among the periplasmic lipoproteins, Tp47 is encoded by the <i>tpp47</i> gene, with a molecular weight of 47 kDa. Previous studies identified the <i>T. pallidum</i> 47- kDa lipoprotein (Tp47) as a penicillin-binding protein (PBP) [4]. Tp47, along with Tp15, Tp17, and other specific <i>T. pallidum</i> antibodies, are used to diagnose syphilis [6], [7] and [8]. Technical Data 1) This protein is recombinant Tp47 from <i>Treponema pallidum</i> expressed in <i>Escherichia coli</i>. 2) It is purified by Immobilized metal ion affinity chromatography. 3) The protein's theoretical size is 47Kda. 4) This protein is 6 His tagged. A080922-02 : 1mg/ml Order for larger quantity is acceptable
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Product – rTp17 (Syphilis)

	Description Among the periplasmic lipoproteins, Tp17 is encoded by the <i>tpp17</i> gene, with a molecular weight of 17 kDa. Previous studies identified the <i>T. pallidum</i> 17- kDa lipoprotein (Tp17) as a penicillin-binding protein (PBP) [5]. Tp17, along with Tp15, Tp47, and other specific <i>T. pallidum</i> antibodies, are used to diagnose syphilis [6], [7] and [8]. Technical Data 1) This protein is recombinant Tp17 from <i>Treponema pallidum</i> expressed in <i>Escherichia coli</i>. 2) It is purified by Immobilized metal ion affinity chromatography. 3) The protein theoretical size is 17Kda. 4) This protein is 6 His tagged.
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References

Syphilis is difficult to diagnose clinically early in its presentation[1]. Confirmation is either via blood tests or direct visual inspection using microscopy. Blood tests are more commonly used, as they are easier to perform [2]. Several highly immunogenic lipoproteins have been identified as diagnostic targets throughout all stages of a syphilis infection, including Tp17, Tp15, Tp44.5 (TnpA), Tp47, Tp41 and Tp35 (TnpC). Specifically, early immune responses are against Tp47 and some of the flagellar proteins, followed by Tp15 and Tp17.

Analytical

- 1) Western Blot/Dot Blot
- 2) ELISA
- 3) Lateral flow assay control

Literature

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- 6) Q. Dang, J. Feng, X. Lu, X. Zhang, H. Xu, C. Liu, et al. Evaluation of specific antibodies for early diagnosis and management of syphilis. *Int J Dermatol*, 45 (10) (2006), pp. 1169–1171
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