

Recombinant Treponema pallidum Tp44.5 Antigen, His tagged

Cat. No. Tp44.5-051T **Lot. No.** (See product label)

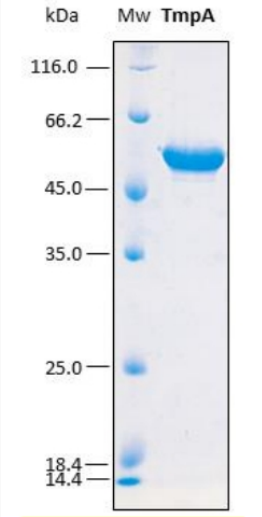
SPECIFICATION

Product Overview	The TmpA recombinant protein has been prepared by expressing the corresponding gene which codifies the mature membrane protein of 44.5 kDa of the spirochete Treponema pallidum.
Species	Treponema pallidum
Source	E.coli
Description	The 42-kDa membrane antigen TmpA (Tp44.5) is a highly immunogenic lipoprotein which has been identified as a diagnostic target throughout all stages of a syphilis infection.
Tag	N-His
Molecular Mass	Determined by SDS-PAGE, the protein band is between molecular markers of 45-66.2 kDa, while relative molecular mass calculated from amino acid sequence is 43,488.86 Da.
Purity	> 95% by observation on SDS-PAGE electrophoresis
Applications	WB, DB, IE, DE, CLIA, LF
Storage	Upon arrival, it should be aliquoted to avoid repeated freezing and thawing cycles and stored at -20 to -80 centigrade. In order to defrost the protein, maintain the aliquot at 25 centigrade without shaking to avoid aggregation.

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Storage Buffer	20 mM phosphate buffer pH 8, 0.15 M NaCl and 0.1% polyoxyethylene (10) tridecyl ether
Concentration	1.24 mg/mL
Shipping	Protein is shipped with dry ice.
Reference	1. Guide Antoni, Gracias dal Maso, Brunilde Berti, Claudia Wdatini and Francesco Ckola. Detection of antigenic determinants in the <i>Treponema pallidum</i> membrane protein TmpA using overlapping synthetic peptides. 1996, Journal of Immunological Methods 189: 173-140. 2. Gill SC, von Hippel PH. Calculation of protein extinction coefficients from amino acid sequence data. Anal Biochem. 1989 Nov 1;182(2):319-26.
Purity	 SDS-PAGE analysis (15%) of 5 µL of recombinant TmpA. Purity is > 95% as determined by gel electrophoresis.