

## tpp17 recombinant protein

tpp17 recombinant

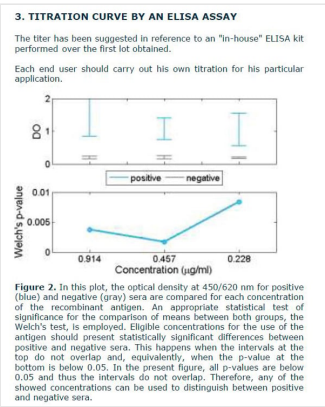
|                              |                       |                                            |
|------------------------------|-----------------------|--------------------------------------------|
| CATALOG #<br><b>AAA72848</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>Western Blot, ELISA</b> |
|------------------------------|-----------------------|--------------------------------------------|

### PRODUCT SYNONYMS

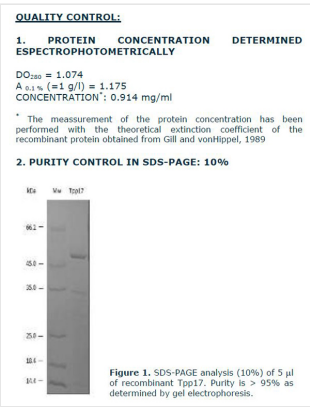
tpp17; tpp17 recombinant; RECOMBINANT ANTIGEN Tpp17 from Treponema pallidum; Tpp17; tpp17 recombinant protein

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                                   | 0.95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format                                           | Dry powder (lyophilized)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Concentration                                         | 0.914 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Length                                       | 434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for tpp17 recombinant protein | WB (Western Blot), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Recombinant Antigen                                   | Treponema pallidum lipoprotein 17 kDa (Akins et al., 1993).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Organism                                              | Treponema pallidum (syphilis)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tag                                                   | HIS/GST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Molecular Weight Information                          | Determined by SDS-PAGE, the protein band is between molecular markers of 45,000-66,200 Da, while relative molecular mass calculated from amino acid sequence is 46,649.6 Da.                                                                                                                                                                                                                                                                                                                                                                   |
| Observation Notes                                     | Proteins should be maintained frozen at high concentrations. The dilution to be performed for ELISA assays should be made with a small quantity of protein, the same day of the experiment. In order to defrost the protein, maintain the aliquot at 25 degree C without shaking to avoid aggregation. Prior making test dilutions and after defrost the protein, is recommended to remove possible protein aggregates by centrifuging the stock solution, avoiding alterations in the immobilization of the biomolecule to the solid surface. |
| Buffer                                                | 50 mM Tris-HCl pH 8 and 10 mM glutathion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Batch Composition                                     | Recombinant antigen with a GST-tag and a his-tag in its N-terminus                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Storage Buffer                                        | 50 mM Tris-HCl pH 8 and 10 mM glutathion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Reconstitution                                        | For lyophilized proteins: with 0.04 ml of sterile double-distilled water (lot specific) for a final concentration of 1.59 mg/ml (lot specific). The protein will be at pH 8.                                                                                                                                                                                                                                                                                                                                                                   |
| Preparation and Storage                               | Lyophilized protein is shipped with on ice packs. Upon arrival, it should be stored at 20 degree C to -80 degree C. Aliquot after reconstitution in order to avoid repeated freezing and thawing cycles and store at 20 degree C to -80 degree C.                                                                                                                                                                                                                                                                                              |



Application Data



Application Data

ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for tpp17 recombinant protein | the Tpp17 recombinant lipoprotein hasbeen prepared by expressing the complete ORF of thecorresponding gene which codifies the mature lipoprotein of17 kDa of the spirochete Treponema pallidum without theleader peptide.                                                                                                                                                                                          |
| Product Categories/Family for tpp17 recombinant protein   | BACTERIA                                                                                                                                                                                                                                                                                                                                                                                                           |
| References                                                | Akins, D. R., Purcell, B. K., Mitra, M. M., Norgard, M.V., and Radolf, J. D. Lipid modification of the 17-kilodaltonmembrane immunogen of Treponema pallidum determinesmacrophage activation as well as amphiphilicity. 1993,Infection and Immunity, 61: 1202-1210.<br>Gill SC, von Hippel PH. Calculation of protein extinctioncoefficients from amino acid sequence data. AnalBiochem. 1989 Nov 1;182(2):319-26. |

NCBI AND UNIPROT INFORMATION

|                           |                          |
|---------------------------|--------------------------|
| NCBI GI #                 | 15639563                 |
| NCBI GeneID               | 2611716                  |
| NCBI Accession #          | NP_219013.1              |
| NCBI GenBank Nucleotide # | NC_000919.1              |
| UniProt Accession #       | P29723; O83584           |
| Molecular Weight          | 47,665 Da                |
| NCBI Official Full Name   | carboxypeptidase, 47 kDa |
| NCBI Official Symbol      | TP0574                   |
| NCBI Protein Information  | carboxypeptidase, 47 kDa |
| UniProt Protein Name      | 47 kDa membrane antigen  |
| UniProt Entry Name        | TA47_TREPA               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.