

## Recombinant *Treponema pallidum* TPP47 protein, His-tagged

### SPECIFICATION

<b>Cat.No.</b>	TPP47-285T
<b>Species</b>	<i>Treponema pallidum</i>
<b>Product Name</b>	Recombinant <i>Treponema pallidum</i> TPP47 protein, His-tagged
<b>Product Overview</b>	Recombinant <i>Treponema</i> p47 produced in <i>E.coli</i> is a non-glycosylated polypeptide chain having a molecular mass of 47.7kDa and fused to a His tag at N-terminus.
<b>Description</b>	<i>Treponema pallidum</i> is a gram-negative spirochaete bacterium and is considered to be metabolically crippled. There are at least four known subspecies: <i>T. pallidum pallidum</i> , <i>T. pallidum pertenuis</i> , <i>T. pallidum carateum</i> and <i>T. pallidum endemicum</i> . The helical structure of <i>T. pallidum pallidum</i> allows it to move in a corkscrew motion through viscous mediums such as mucus. <i>Treponema pallidum</i> sub sp. <i>pallidum</i> 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.
<b>Source</b>	<i>E. coli</i>
<b>Tag</b>	His
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from 1mg/ml in 20mM sodium carbonate pH-10.
<b>Molecular Mass</b>	47.7kDa
<b>Purity</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Usage</b>	The products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
<b>Stability</b>	<i>Treponema</i> p47 although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.