

Recombinant *Treponema pallidum* TPP47 protein, His-tagged

SPECIFICATION

Cat.No.	TPP47-285T
Species	<i>Treponema pallidum</i>
Product Name	Recombinant <i>Treponema pallidum</i> TPP47 protein, His-tagged
Product Overview	Recombinant <i>Treponema p47</i> 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.
Description	<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 sub sp. 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.
Source	<i>E. coli</i>
Tag	His
Form	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from 1mg/ml in 20mM sodium carbonate pH-10.
Molecular Mass	47.7kDa
Purity	Greater than 95.0% as determined by SDS-PAGE.
Usage	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.
Stability	<i>Treponema p47</i> although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.