Recombinant Treponema pallidum TPTMPA protein, His-tagged

Cat. No. TPTMPA-286T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Treponema TmpA produced in E.coli is a non-glycosylated polypeptide chain having a molecular mass of 45kDa and fused to a His tag at N-terminus.
Species	Treponema pallidum
Source	E.coli
Description	Treponema pallidum is a gram-negative spirochaete bacterium and is considered to be metabolically crippled. There are at least four known subspecies: T. pallidum pallidum, T. pallidum pertenue, T. pallidum carateum and T. pallidum endemicum. The helical structure of T. pallidum pallidum allows it to move in a corkscrew motion through viscous mediums such as mucus. Treponema pallidum sub sp. pallidum 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized from 1mg/ml in 20mM sodium carbonate pH-10.
Molecular Mass	45kDa
Purity	Greater than 95.0% as determined by SDS-PAGE.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. They may

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	not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	Treponema TmpA although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.
Solubility	It is recommended to reconstitute the lyophilized Treponema TmpA in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

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