

Recombinant Treponema pallidum TPP47 protein, His-tagged

Cat. No. TPP47-285T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Treponema p47 produced in E.coli is a non-glycosylated polypeptide chain having a molecular mass of 47.7kDa 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	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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

chemicals.

Stability

Treponema p47 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 p47 in sterile 18M-cm H₂O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

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