

Recombinant Treponema pallidum 15 kDa Membrane Protein, GST tagged

Cat. No. TP15-11T Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Treponema pallidum 15 kDa protein produced as a gst-fusion protein in the E. coli Expression System.
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	Frozen Liquid
Molecular Mass	42 kDa
Purity	> 95%, this protein is purified by affinity chromatography and by preparative electrophoresis to > 95% purity as determined by SDS-PAGE, reduced.
Applications	In-Vitro Diagnostics, Immunization

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Usage	Recommended concentrations for use are approximate values. A dose dependent response assay should be performed to determine the optimal concentration for use in specific applications. ELISA and Western ELISA require 10-100 ng protein depending on the nature and affinity of the detection reagent. Human serum polyclonal antibodies yield titers of 1:1000 or greater at 100 ng of immobilized protein under standard ELISA conditions. Protein concentration for lateral flow rapid diagnostics range from 1-2 mg/mL.
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Stability	2 years at -75 centigrade
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Storage	At -75 centigrade
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Concentration	1 mg/mL
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Dilutions	10 mM Tris, pH 8.0, SDS (< 0.01%)
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GENE INFORMATION

Official Symbol	TP15
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Synonyms	TP15; T. pallidum TP15; Treponema pallidum 15kD Membrane Protein; Treponema pallidum p15
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