

Recombinant Toxic Shock Syndrome Toxin-1 (TSST-1)

Catalog No: tcip3035



Available Sizes

Size: 100µg



Specifications

Application:

ELISA, WB, Cytotoxicity, Stimulation

Research Area:

Virology

Form:

Frozen Liquid

Concentration:

Supplied in PBS + 10% Glycerol at a concentration of 1.3 mg/mL. ; The theoretical molecular weight of the TSST-1 is 22,204 Daltons.

Recommended Dilution:

ELISA: Assay-dependent dilution ; WB: Assay-dependent dilution; internal QC demonstrates strong detection of 1 ng of TSST-1 ; PBMC Stimulation assay: Stimulation of PBMCs to produce Interferon γ by TSST-1 can be achieved with 0.1 ng/mL.

Purity / Grade:

Column chromatography (FPLC)

Storage Instruction:

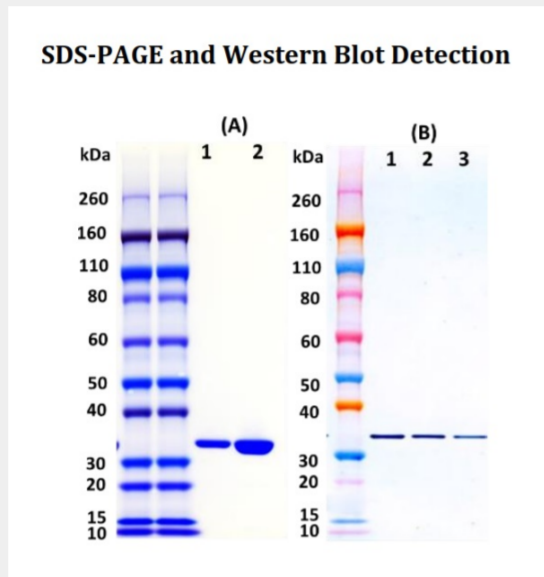
2-3 weeks at -20°C, long term It is recommended to dispense single-use aliquots and store aliquots at -80°C to avoid multiple freeze/thaw cycles

Relevance:

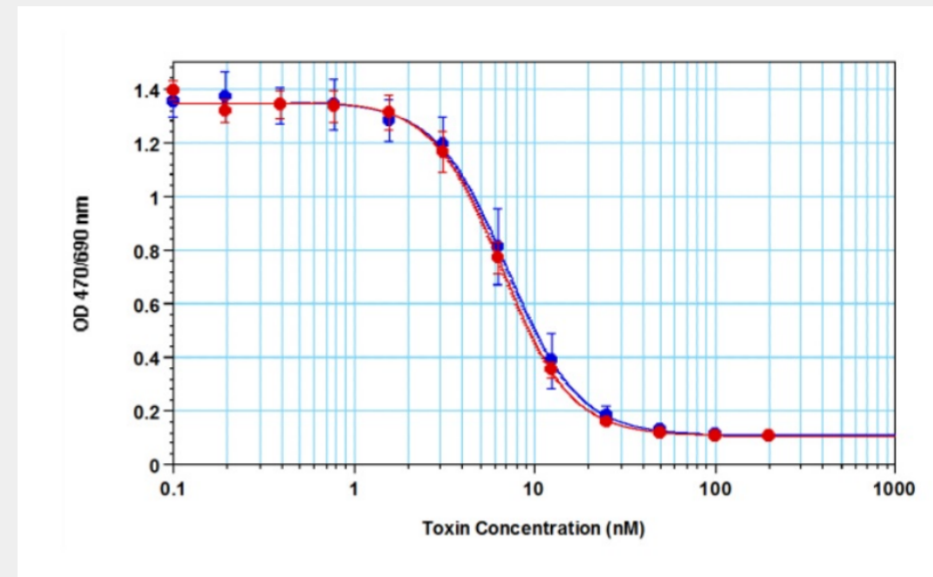
TSST-1 is a pyrogenic toxin superantigen secreted by *Staphylococcus aureus*. ; TSST-1 is a powerful activator of T-lymphocytes resulting in substantial cytokine release that can cause severe pathological consequences ; Related Products: Anti- *S. aureus* Superantigens Polyclonal Antibody Catalog # tcia157; Anti- *S. aureus* LukS-PV Monoclonal Antibody Catalog # tcia126 ; Anti- *S. aureus* Alpha-Hemolysin Polyclonal Antibody Catalog # tcia175

Product Description

Recombinant TSST-1 expressed in E.coli and purified to >90% using chromatographic methods.



(A) SDS-PAGE of rHlg A: 1 ug (lane 1) and 5 ug (lane 2). ; (B) Western blot detection of rHlg A at 200 ng, 100 ng and 50 ng (lanes 1-3), using Taiclone's anti-PVL Luk S polyclonal antibody (Cat# 04-0009) at 0.5 µg/mL and an anti-rabbit IgG-HRP conjugate followed by substrate.



Toxin Functionality: Human promyelocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of rHlg A and rHlg B at equimolar concentration for 3 hours at 37°C with 5% CO₂ and 95% humidity. Cellular viability was determined by adding XTT and incubation for additional 16 hours. Cells were centrifuged and the OD determined in the supernatants at 470/690nm. EC₅₀ values were found to be 7.12 nM for the current lot 1504002 (blue circles) and 6.67 nM for the previous lot 1311002 (red circles).

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!