

Staphylococcus aureus Phenol Soluble Modulin-Alpha 3 (PSM- α 3)

Catalog No: tcip3034



Available Sizes

Size: 100 μ g



Specifications

Application:

ELISA, WB, Cytotoxicity

Research Area:

Virology

Form:

Frozen Liquid

Concentration:

Supplied in phosphate buffered saline at a concentration of 1.00 mg/mL

Recommended Dilution:

ELISA: Assay-dependent dilution.; WB: Not recommended for this peptide. ; Cytotoxicity assay: The peptide is active in functional lysis assays with horse red blood cells and human neutrophils (Data not shown). Lytic activity towards human or rabbit RBC for this product has not been tested. The peptide can be also used in serology assay as coating antigen to detect antibodies to PSM.

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

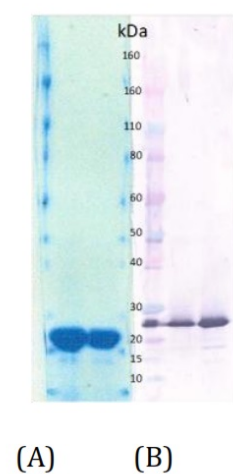
Relevance:

S. aureus secretes four short (~20 amino acids) α -type phenol soluble modulins of which the PSM- α 3 plays the most prominent role in *S. aureus* virulence. ; PSM toxin is a major virulence factor of *S. aureus* and primarily causes cytolysis in red and white blood cells.

Product Description

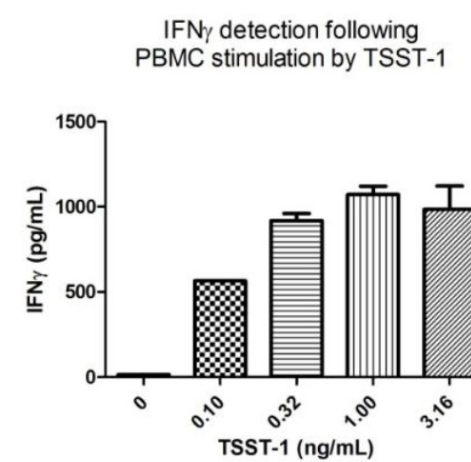
Purified Staphylococcus aureus phenol soluble modulin (PSM- α 3) peptide.

SDS-PAGE and Western Blot Detection



SDS-PAGE and staining results for TSST-1 (A) at 11 μ g and 5 μ g respectively. Western blot detection (B) of 100 ng and 500 ng of TSST-1 respectively using IBT's polyclonal rabbit anti-Staphylococcus aureus Superantigen antibody at 0.5 μ g/mL followed by an anti-rabbit alkaline phosphatase conjugate and visualized with AP substrate.

PBMC Stimulation Assay



Interferon γ was detected from PBMCs by ELISA following 48 hour incubation of PBMCs with varying amounts of TSST-1.

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