



IBT BIOSERVICES

4 Research Court, Suite 300
Rockville, MD 20850
877-411-2041
Services@ibtbioservices.com

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

Catalog #: 1401-004

Lot #: 2306001

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

Supplied: 100 μ g is supplied in ultra-pure water at a concentration of 2.00 mg/mL.

Storage: -70°C

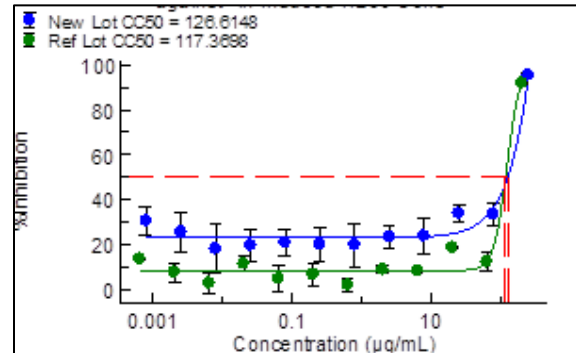
Relevance: *S. aureus* secretes four short (~20 amino acids) α -type phenol soluble modulins of which the PSM- α 3 plays the most prominent role in *S. aureus* virulence. PSM toxin is a major virulence factor of *S. aureus* and primarily causes cytolysis in red and white blood cells.

Recommended Dilutions:

ELISA: Assay-dependent dilution. The peptide can also be used in serology assay as coating antigen to detect antibodies to PSM.

WB: Not recommended for this peptide.

Cytotoxicity assay:



The peptide is active in functional lysis assays with horse red blood cells (data not shown) and human neutrophils. Human promyelocytic leukemia cell line HL-60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of PSM- α 3 for 3 hours at 37°C with 5% CO₂ and 95% humidity. Cellular viability was determined by CellTiter-Glo® Luminescent Cell Viability Assay. The half maximal cytotoxic concentration (CC₅₀) for this lot 2306001 was found to be 127 μ g/mL which is comparable to 117 μ g/mL CC₅₀ of the previous lot 2106002.

For additional *S. aureus* products, please visit:
<http://www.ibtbioservices.com/reagents/staphylococcus/>

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