

# Recombinant *S. aureus* LukS-PV (tag-free)

Catalog No: tcip3019



## Available Sizes

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**Size:** 100µg



## Specifications

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**Application:**

ELISA, WB, Cytotoxicity

**Research Area:**

Virology

**Form:**

Frozen Liquid

**Concentration:**

Supplied in PBS at a concentration of 1.709 mg/mL. Protein demonstrates a molecular weight of approximately 35 kDa

**Recommended Dilution:**

ELISA: Assay-dependent dilution.; WB: Assay-dependent dilution; internal QC demonstrates detection of 100 ng of LukS-PV protein when detected with antiPVL LukS polyclonal antibody (cat# tcia174) in Western blotting.; PVL Cytotoxicity assay: Cytotoxicity can be detected in human neutrophils when used in combination with LukF-PV in a concentration range of 1-100 nM.

**Purity / Grade:**

Column chromatography

**Storage Instruction:**

2-3 weeks at -20°C, -80°C long term

**Relevance:**

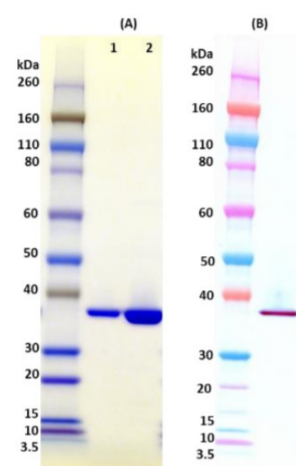
This protein may be used in functional PVL toxicity assays in combination with LukF-PV, or as a control protein in ELISA assays or Western blotting when detecting LukS in PVL (+) strains of *S. aureus*

## Product Description

Purified, tag-free Staphylococcus aureus PantonValentine Leukocidin (PVL) S subunit (LukS-PV) ;

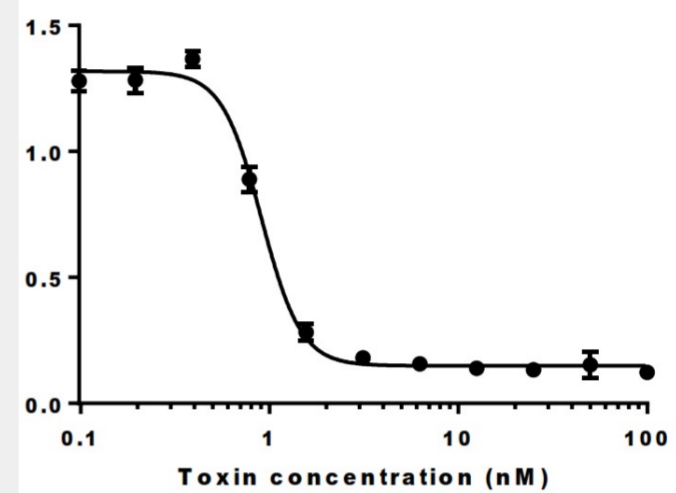
The theoretical molecular weight of the protein is 32,465 Dalton

SDS-PAGE and Western Blot Detection



(A) SDS-PAGE of LukF-PV: 1 µg (lane 1) and 5 µg (lane 2) Protein demonstrates a molecular weight of approximately 37 kDa.; (B) Western blot detection of LukF-PV at 100 ng, using Taiclone's antiLukF-PV polyclonal antibody (Cat: tcia158) at 0.5 µg/mL and an anti-rabbit IgG-HRP conjugate, followed by TMB substrate.

Toxin Functionality



Human promyelocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of LukF-PV and LukS-PV at equimolar concentration for 3 hours at 37°C with 5% CO<sub>2</sub> and 95% humidity. Cellular viability was determined by adding XTT and incubating for additional 16 hours. Cells were centrifuged and the OD determined in the supernatants at 470/690 nm. EC<sub>50</sub> values were found to be 0.907 nM.

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