Web: www.taiclone.com
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Recombinant S. aureus LukF-PV (His-tag, N-terminus)

Catalog No: tcip3016

Available Sizes

Size: 100µg

Specifications

Application:
ELISA, WB,Cytotoxicity

Research Area:
Virology

Form:
Frozen Liquid

Concentration:
Supplied in PBS + 10% Glycerol at a concentration of 0.472 mg/mL. Protein demonstrates amolecular weight running close to 37 kDa

Recommended Dilution:
ELISA: Assay-dependent dilution.; WB: Assay-dependent dilution; internal QC demonstrates detection of 100 ng of LukF-PV protein when detected with anti-PVL LukF polyclonal antibody (cat# tcia158) in Western blotting. ; PVL Cytotoxicity assay: Cytotoxicity can be detected in human neutrophils when used in combination with LukFPV 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 LukS-PV, or as a control protein in ELISA assays or Western blotting when detecting LukF in PVL (+) strains of S. aureus

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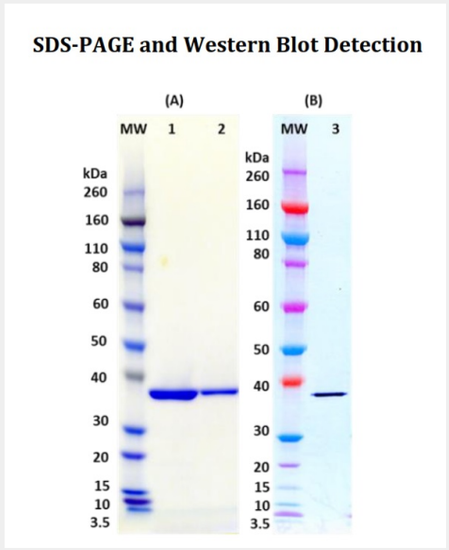
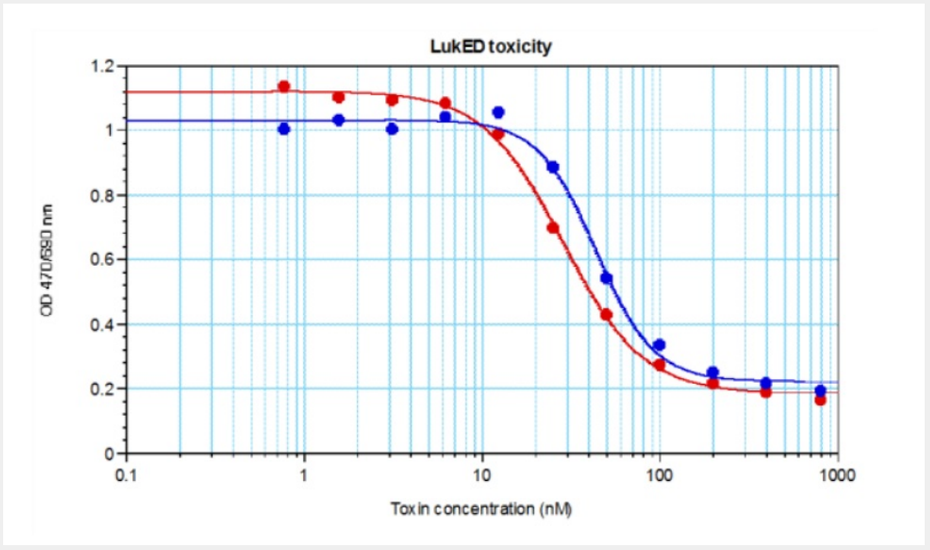
Product Description

Purified, His-tagged Staphylococcus aureus Panton-Valentine Leukocidin (PVL) F subunit (LukF-PV). ;

The theoretical molecular weight of the protein is 35 kDa including the His-tag.



(A) SDS-PAGE of rLukD: 5 ug (lane 1) and 1 ug (lane 2). (B) Western blot detection of rLukD at 100 ng (lane 3), using Taiclone's anti-LukF-PV polyclonal antibody (cat# tcia158) 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 rLukE (cat# tcip3018, lot 1503005) and rLukD 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 470/690 nm. Red circles represent the current lot 1707001 and blue circles represent the previous lot 1508003. EC 50 were found to be 28.8 nM for the current lot and 44.2 nM for the previous lot.