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S. aureus LukF-PV (His-tag, C-terminus)

Catalog #: 0536-001

Lot #: 1606002

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.

Storage: 2-3 weeks at -20◦C, -80◦C long term

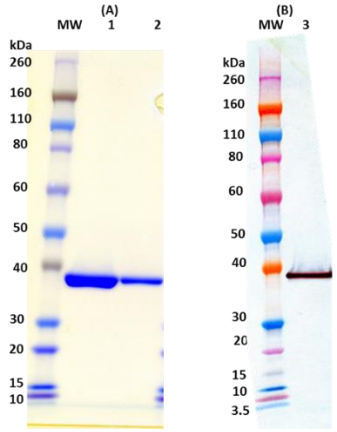
Size: 100 ug of protein is supplied in PBS + 15% Glycerol at a concentration of 1.361 mg/mL. Protein demonstrates a molecular weight running close to 37 kDa.

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*.

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.

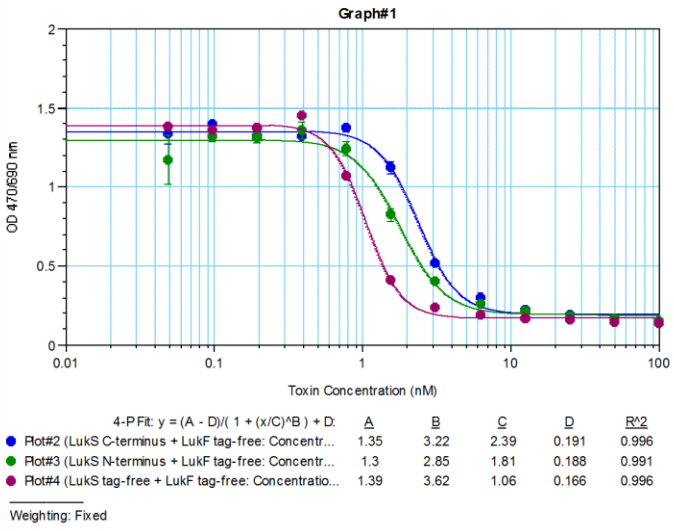
For additional S. aureus products, please visit:
http://www.ibtbioservices.com/reagents/staphylococcus/

SDS-PAGE and Western Blot Detection



(A)SDS-PAGE of 5µg and 1µg (lanes 1 and 2) of LukF-PV-His Tag followed by Coomassie staining. (B) Western blot detection of 100 ng (lane 3) of LukF-PV using an anti-His antibody.

Toxin Functionality*:* Human promyleocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of LukS and LukF at equimolar concentration for 48 hours at 37°C with 5% CO_2 and 95% humidity. Cellular viability was determined by adding XTT and incubation for additional 6 hours. Cells were centrifuged and the OD determined in the supernatants at 470nm. EC_{50} was found to be 2.39 nM of each toxin subunit.



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