

S. aureus Recombinant LukE (tag free)

Catalog No: tcip3018



Available Sizes

Size: 100µg



Specifications

Application:

ELISA, WB, Cytotoxicity

Research Area:

Virology

Form:

Frozen Liquid

Concentration:

Supplied in PBS at a concentration of 2.417 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 rLukE protein using anti-LukS-PV polyclonal antibody (cat# 04-0009) by Western blot analysis.; Cytotoxicity assay: Cytotoxicity can be detected in human neutrophils when used in combination with rLukD in a concentration range of 25-800 nM.

Purity / Grade:

Column chromatography

Storage Instruction:

2-3 weeks at -20°C, -80°C long term

Relevance:

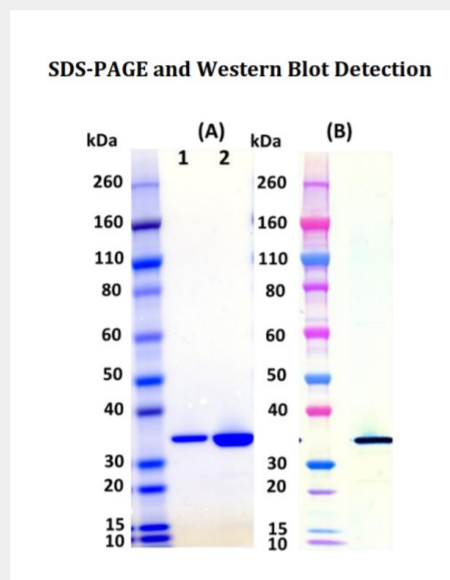
This protein may be used in functional toxicity assays in combination with rLukD, or as a control protein in ELISA assays or Western blotting when detecting toxins produced by different strains of S. aureus.

Product Description

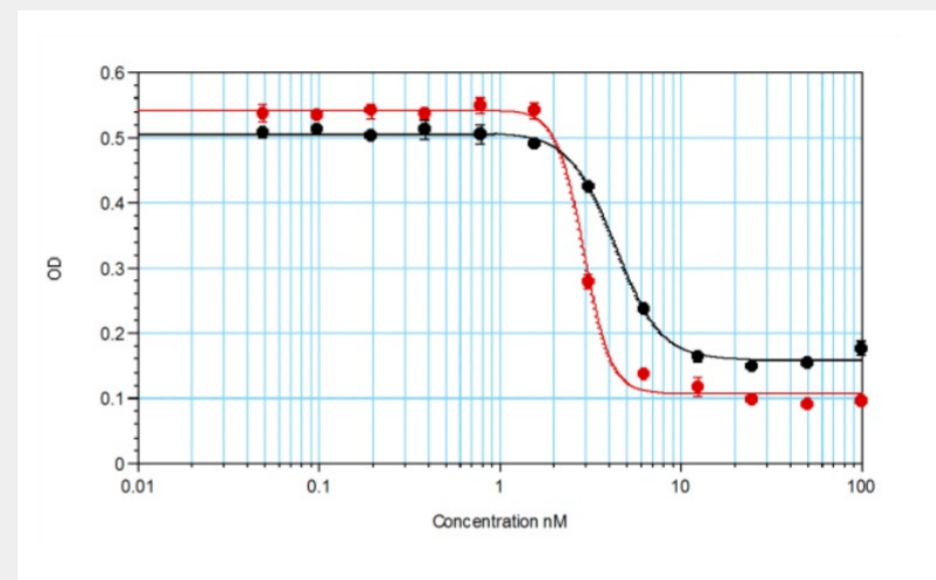
Purified, *Staphylococcus aureus* recombinant leukocidin-E (rLukE). ;

The rLukE (tag free) is expressed in *E. coli* and purified by FPLC. ;

The theoretical molecular weight of the protein is 34,819 Daltons.



A) SDS-PAGE of LukS-PV: 1 µg (lane 1) and 5 µg (lane 2). (B) Western blot detection of LukS-PV at 100 ng, using Taiclone's antiLukS-PV polyclonal antibody (Cat# tcia174) 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 LukS-PV and LukF-PV at equimolar concentration for 3 hours at 37°C with 5%CO₂ 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. EC₅₀ values were found to be 2.92 nM for the LukSPV tag-free lot 1503008 (red circles) and 4.38 nM for the LukS-PV his-tag lot 1108003 (black circles).

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