PROTEINS

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S. aureus recombinant LukE (tag free)

Catalog #: 0530-004

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.

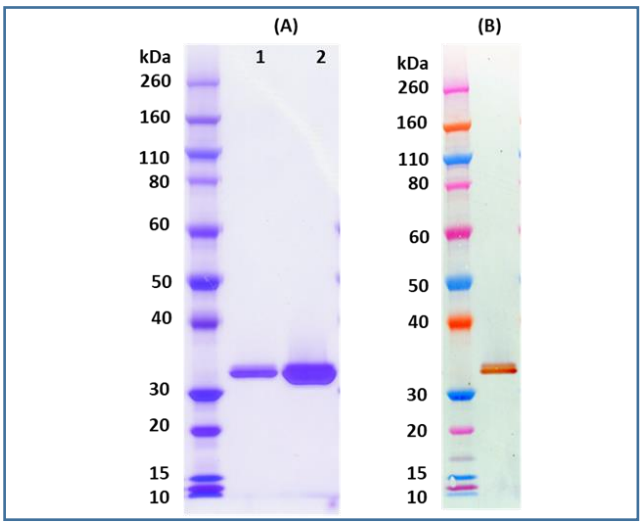
Formulation & Storage: Supplied in PBS and 5% glycerol. **Store at** -20°C for 2-3 weeks, -80°C for long term.

Notes & Usage Guidelines:
ELISA: N/A
WB: Assay-dependent dilution

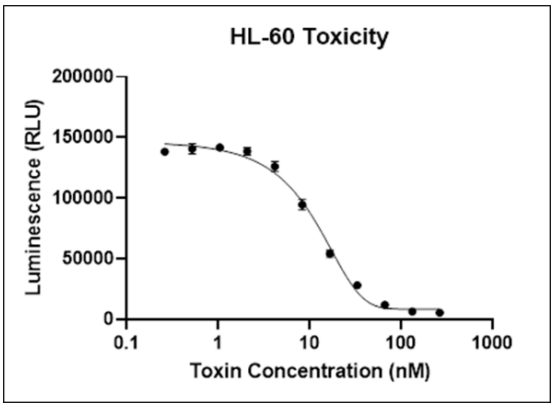
Applications

SDS-PAGE and Western Blot Data:
A) SDS-PAGE of rLukE: 1 µg (Lane 1) and 5 µg (Lane 2).

(B) Western blot detection of rLukE at 100 ng, using IBT's anti-LukS-PV polyclonal antibody (Catalog #04-0009) at 0.5 µg/mL and an anti-rabbit IgG-HRP conjugate, followed by TMB membrane substrate.



Toxin Functionality Data:
Human promyelocytic leukemia cell line HL60 was differentiated into neutrophils by treatment with DMSO. Neutrophils were incubated with serial dilutions of rLukE 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. EC50 values were found to be 13.93 nM for the current lot 2009006 and 9.23 nM for the previous lot 1805008.



Certificate of analysis:
A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at services@ibtbioservices.com

Related Products:
IBT provides a wide array of anti-filovirus specific antibodies, recombinant proteins, and other infectious disease reagents. Please see our website, www.ibtbioservices.com for more details.