

S. aureus recombinant LukD (tag free)

Catalog #: 0530-003

Description:

Purified *Staphylococcus aureus* recombinant leukocidin-D (rLukD). The rLukD (tag free) is expressed in *E. coli* and purified by FPLC. The theoretical molecular weight of the protein is 36,889 Daltons.

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

Notes & Usage Guidelines:

ELISA: N/A

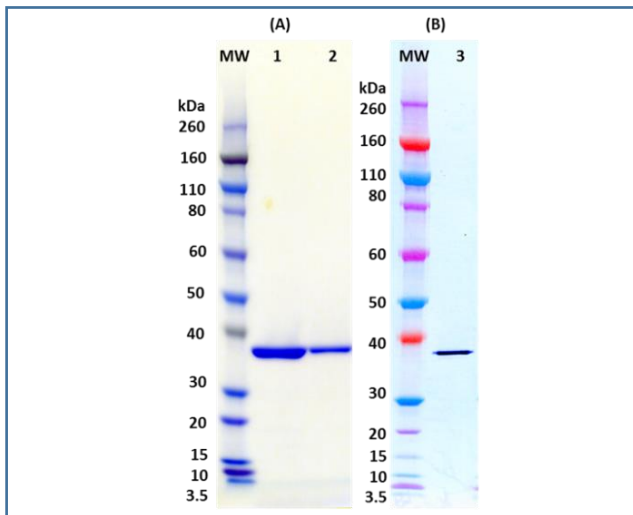
WB: Assay-dependent dilution

Applications

SDS-PAGE and Western Blot Data:

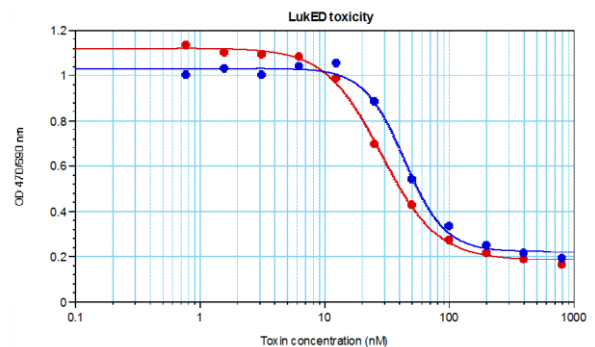
(A) SDS-PAGE of rLukD: 5 µg (Lane 1) and 1 µg (Lane 2).

(B) Western blot detection of rLukD at 100 ng (Lane 3), using IBT's anti-LukF-PV polyclonal antibody (Catalog # 0312-002) at 0.5 µg/mL and an anti-rabbit IgG-HRP conjugate followed by 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 (Catalog # 0530-004) 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. EC₅₀ were found to be 28.8 nM for the current lot and 44.2 nM for the previous lot.



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:

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