

## Staphylococcus aureus Gamma Hemolysin A (Hlg A)

Catalog #: 1403-003

### Description:

Purified, *Staphylococcus aureus* recombinant Gamma Hemolysin A (rHlg A). The rHlg A (tag free) is expressed in *E. coli* and purified by FPLC. The theoretical molecular weight of the protein is 34,956 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:** Assay-dependent dilution

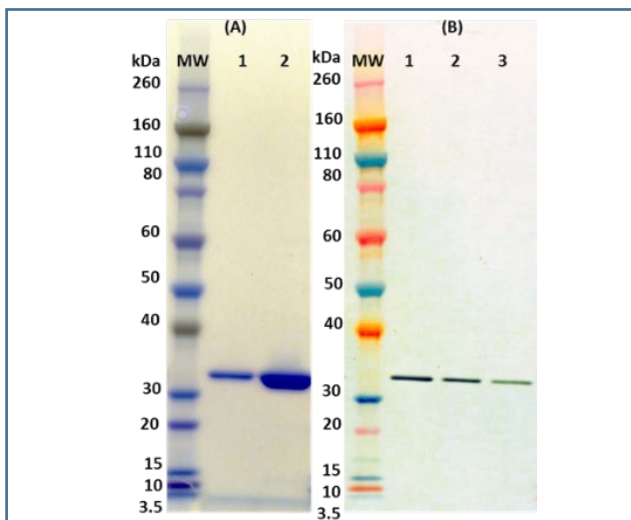
**WB:** Assay-dependent dilution

## Applications

### SDS-PAGE and Western Blot Data:

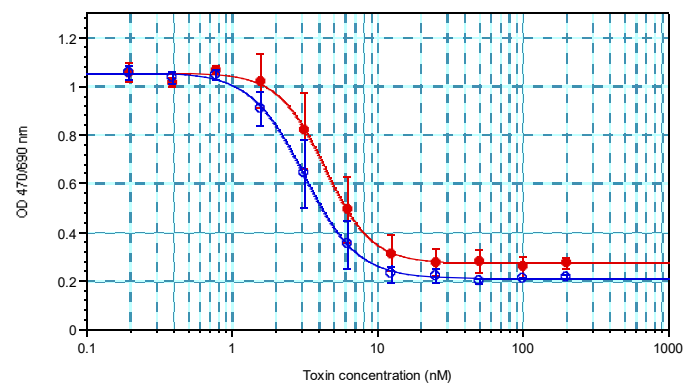
(A) SDS-PAGE of rHlg A at 1 µg (Lane 1) and 5 µg (Lane 2).

(B) Western blot detection of rHlg A at 200 ng, 100 ng and 50 ng (Lanes 1-3), using IBT's anti-PVL Luk S polyclonal antibody (Catalog # 04-0009) at 0.05 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 rHlg A and rHlg B at equimolar concentration for 3 hours at 37°C with 5% CO<sub>2</sub> 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 470/690nm. EC<sub>50</sub> values were found to be 4.39 nM for the current lot 1805006 (red circles) and 3.16 nM for the previous lot 1504002 (blue circles).



### 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](mailto:services@ibtbioservices.com)

### Related Products:

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