

Staphylococcus aureus Gamma Hemolysin B (Hlg B)

Catalog #: 1404-001

Description:

Purified, *Staphylococcus aureus* recombinant Gamma Hemolysin B (rHlg B). rHlg B (tag free) is expressed in *E. coli* and purified by FPLC. The theoretical molecular weight of the protein is 35.4 kDa.

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

Notes & Usage Guidelines:

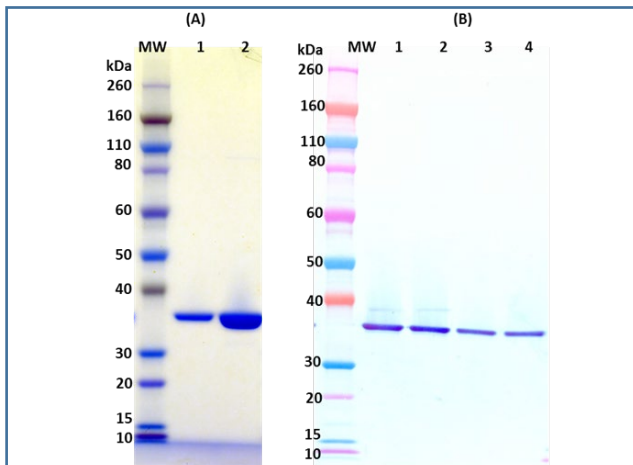
ELISA: N/A

WB: Assay-dependent dilution

Applications

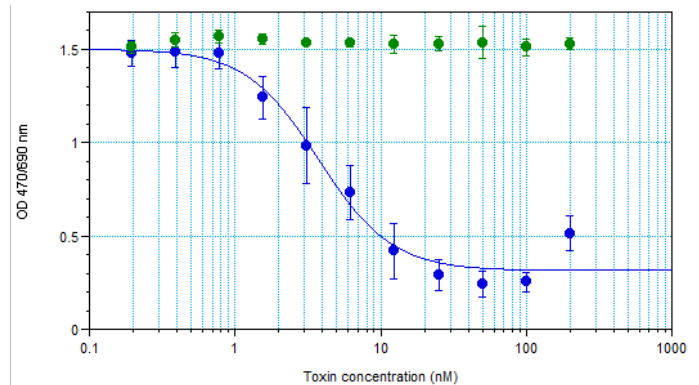
SDS-PAGE and Western Blot Data:

(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (Lanes 1 and 2 respectively) of Hlg B protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of Hlg B at 200 ng, 100 ng, 50 ng, 25 ng (Lanes 1-4). Hlg B was detected using IBT's polyclonal antibody (Catalog # 0314-001) at 50 ng/mL and anti-rabbit IgG-horseradish peroxidase (HRP) conjugate, followed by TMB 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 recombinant Hlg A and Hlg B 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 470/690nm. Hlg B alone, represented by green circles, shows no toxicity. The EC₅₀ value was found to be 3.76 nM for the Hlg B (tag-free) in combination with Hlg A (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

Related Products:

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