



IBT BIOSERVICES

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S. aureus Gamma Hemolysin B (Hlg B) (tag-free)

Catalog #: 1404-001

Lot #: 1803001

Description: Purified, tag-free *Staphylococcus aureus* Gamma Hemolysin B (Hlg B) expressed in *E. coli*. The theoretical molecular weight of the protein is 35.4 kDa.

Storage: 2-3 weeks at -20°C, -80°C long term

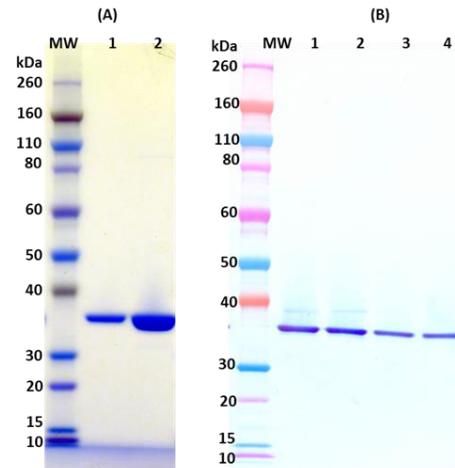
Size: 100 µg of protein is supplied in PBS at a concentration of 1.596 mg/mL. Protein demonstrates a molecular weight of approximately 35 kDa.

Relevance: This protein may be used in functional toxicity assays in combination with Hlg A, Hlg C, or as a control protein in ELISA assays or Western blotting.

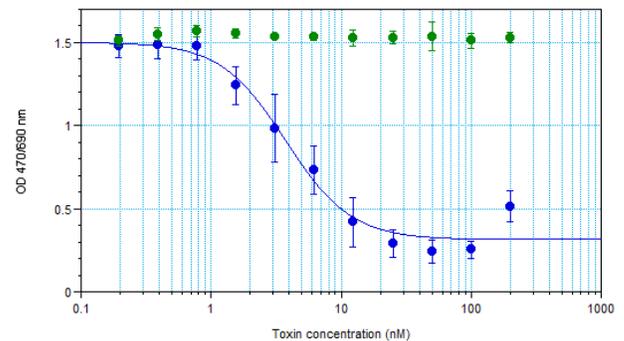
Cytotoxicity assay: Cytotoxicity can be detected in human neutrophils when used in combination with Hlg A or Hlg C.

For additional *S. aureus* products, please visit:
<http://www.ibtbioservices.com/reagents/staphylococcus/>

SDS-PAGE and Western Blot Detection



(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 (cat# 0314-001) at 50 ng/mL and anti-rabbit IgG-horseradish peroxidase (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 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 (Solid blue circles).

Intended for research use only. Not for human, therapeutic, or diagnostic applications.

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