



IBT BIOSERVICES

21 Firstfield RD * Suite 100
Gaithersburg, MD 20878
877-411-2041
Services@ibtbioservices.com

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

Catalog #: 1405-001

Lot #: 1509003

Description: Purified, tag-free *Staphylococcus aureus* Gamma Hemolysin C (Hlg C) expressed in *E. coli*. The theoretical molecular weight of the protein is 32.8 kDa.

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

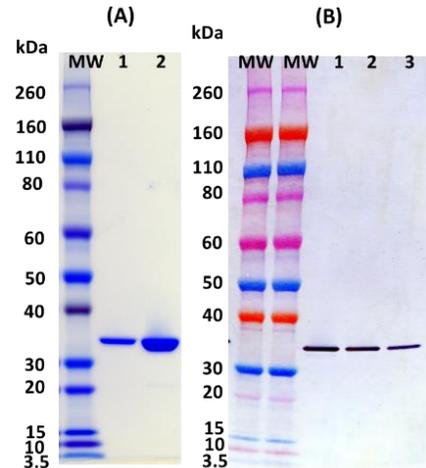
Size: 100 µg of protein is supplied in PBS + 5% Glycerol at a concentration of **1.496 mg/mL**. Protein demonstrates a molecular weight running close to 30 kDa.

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

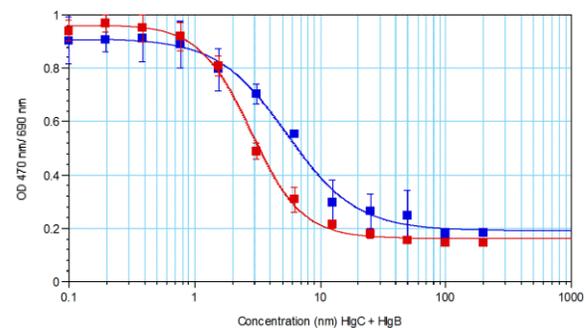
Cytotoxicity assay: Cytotoxicity can be detected in human neutrophils when used in combination with Hlg B in a concentration range of 0.03-200 nM.

For additional *S. aureus* products, please visit:
<http://ibtbioservices.com/index.php/product-and-reagents/staphylococcal-products>

SDS-PAGE and Western Blot Detection



(A) SDS-PAGE and stain demonstrating 1 µg and 5 µg (lanes 1 and 2, respectively) of Hlg C protein under denaturing and reducing conditions. MW denotes Novex Sharp prestained protein markers. (B) Western blot detection of Hlg C at 100 ng, 50 ng, and 25 ng (lanes 1-3). Hlg C was detected using IBT's polyclonal antibody at 500 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 Hlg B tag-free and Hlg C 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. OD's were determined in the supernatants at 470/690 nm. Red squares represent the current lot of HlgC tag-free (1509003) and blue square represents the previous HlgC his-tag (Cat # 1403-002, Lot# 1211003). EC₅₀ was found to be 2.84 nM for current lot and 5.53 nM for HlgC his-tag (Cat # 1403-002, Lot# 1211003).

Intended for research use only. Not for human, therapeutic, or diagnostic applications.
The buyer cannot sell or otherwise transfer this product for Commercial Purposes without written approval of
IntegratedBioTherapeutics, Inc.

Copyright 2015. Integrated BioTherapeutics, Inc. All rights reserved.