## **Product** Data Sheet



## Gamma-hemolysin component A Protein, S. aureus (Myc, His)

Cat. No.: HY-P71485

Synonyms: hlgA; hlg2; MW2342; Gamma-hemolysin component A; H-gamma-2; H-gamma-II

Species: Staphylococcus aureus

E. coli Source:

P0A073 (30E-309K) Accession:

Gene ID: 59701246

Molecular Weight: Approximately 39.4 kDa

## **PROPERTIES**

AA Seguence				
	ENKIEDIGQG	AEIIKRTQDI	TSKRLAITQN	IQFDFVKDKK
	YNKDALVVKM	QGFISSRTTY	SDLKKYPYIK	RMIWPFQYNI
	SLKTKDSNVD	LINYLPKNKI	DSADVSQKLG	YNIGGNFQSA
	PSIGGSGSFN	YSKTISYNQK	NYVTEVESQN	SKGVKWGVKA
	NSFVTPNGQV	SAYDQYLFAQ	DPTGPAARDY	FVPDNQLPPL
	IQSGFNPSFI	TTLSHERGKG	DKSEFEITYG	RNMDATYAYV
	TRHRLAVDRK	HDAFKNRNVT	VKYEVNWKTH	EVKIKSITPK

**Appearance** Lyophilized powder.

Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.		
Endotoxin Level	<1 EU/μg, determined by LAL method.		
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.		

Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping Room temperature in continental US; may vary elsewhere.

## **DESCRIPTION**

**Background** 

Gamma-hemolysin component A (HlgA) is a toxin that operates by creating pores in the cell membrane, exhibiting both hemolytic and leucotoxic activities. Its toxic effects are contingent upon the sequential binding and synergistic association of a class S and a class F component, resulting in the formation of heterooligomeric complexes. In strains producing both gamma-hemolysins and leukocidins, HlgA (class S) associates with HlgB (class F), thus constituting an AB toxin. Moreover, HIgA can also form a complex with LukF-PV, showcasing the versatile interactions and potentially cooperative mechanisms employed by this toxin.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$ 

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