

Gamma-hemolysin component B Protein, *S. aureus* (P.pastoris, His)

Cat. No.:	HY-P71806
Synonyms:	hlgB; SA2209; Gamma-hemolysin component B; H-gamma-1; H-gamma-I
Species:	<i>Staphylococcus aureus</i>
Source:	<i>P. pastoris</i>
Accession:	P0A075 (26A-325K)
Gene ID:	59701249
Molecular Weight:	Approximately 36.1 kDa

PROPERTIES

AA Sequence	<pre> A E G K I T P V S V K K V D D K V T L Y K T T A T A D S D K F K I S Q I L T F N F I K D K S Y D K D T L V L K A T G N I N S G F V K P N P N D Y D F S K L Y W G A K Y N V S I S S Q S N D S V N V V D Y A P K N Q N E E F Q V Q N T L G Y T F G G D I S I S N G L S G G L N G N T A F S E T I N Y K Q E S Y R T T L S R N T N Y K N V G W G V E A H K I M N N G W G P Y G R D S F H P T Y G N E L F L A G R Q S S A Y A G Q N F I A Q H Q M P L L S R S N F N P E F L S V L S H R Q D G A K K S K I T V T Y Q R E M D L Y Q I R W N G F Y W A G A N Y K N F K T R T F K S T Y E I D W E N H K V K L L D T K E T E N N K </pre>
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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ 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 B (HlgB) functions as a toxin, exerting its effects by forming pores in the cell membrane and displaying hemolytic and leucotoxic activities. Additionally, HlgB plays a role in promoting host AMFR-mediated inflammation by facilitating 'Lys-27'-linked ubiquitination of TAB3, mediating TAK1-TAB3 complex formation, and phosphorylating TAK1/MAP3K7, thereby activating the host NF-κB signaling pathway. The toxicity of HlgB relies on the sequential binding and synergistic association of a class S and a class F component, leading to the formation of
-------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

heterooligomeric complexes. Specifically, HlgB (class F) associates either with HlgA, forming an AB toxin, or with HlgC, forming a CB toxin. These interactions and activities underscore the multifaceted nature of HlgB in cellular processes and host-pathogen interactions.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA