

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

Cat. No.:	HY-P71835
Synonyms:	hlgC; SA2208Gamma-hemolysin component C
Species:	Staphylococcus aureus
Source:	P. pastoris
Accession:	Q7A3S2 (30A-315N)
Gene ID:	/
Molecular Weight:	Approximately 34.6 kDa

PROPERTIES

AA Sequence	<p> AND T E D I G K G S D I E I I K R T E D K T S N K W G V T Q N I Q F D F V K D K K Y N K D A L I L K M Q G F I S S R T T Y Y N Y K K T N H V K A M R W P F Q Y N I G L K T N D K Y V S L I N Y L P K N K I E S T N V S Q T L G Y N I G G N F Q S A P S L G G N G S F N Y S K S I S Y T Q Q N Y V S E V E Q Q N S K S V L W G V K A N S F A T E S G Q K S A F D S D L F V G Y K P H S K D P R D Y F V P D S E L P P L V Q S G F N P S F I A T V S H E K G S S D T S E F E I T Y G R N M D V T H A I K R S T H Y G N S Y L D G H R V H N A F V N R N Y T V K Y E V N W K T H E I K V K G Q N </p>
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	<p>Gamma-hemolysin component C (HlgC) is a toxin known for its mechanism of action involving the formation of pores in the cell membrane, resulting in both hemolytic and leucotoxic activities. The toxicity of HlgC necessitates a sequential binding and synergistic association of a class S and a class F component, giving rise to the formation of heterooligomeric complexes. In particular, HlgC, belonging to the class S, associates with HlgB, a class F component, forming a CB toxin. This cooperative interaction underscores the intricate molecular processes employed by HlgC to exert its toxic effects on target cells.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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