Proteins



Alpha-hemolysin Protein, S. aureus (P.pastoris, His)

Cat. No.: HY-P71825

Synonyms: hly; hla; Alpha-HL; Alpha-toxin

Species: Staphylococcus aureus

Source: P. pastoris

Q2G1X0 (27A-319N) Accession:

Gene ID: 3920722

Molecular Weight: Approximately 35.3 kDa

PROPERTIES

AA Seq	uence
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ADSDINIKTG TTDIGSNTTV KTGDLVTYDK ENGMHKKVFY SFIDDKNHNK KLLVIRTKGT IAGQYRVYSE EGANKSGLAW PSAFKVQLQL PDNEVAQISD YYPRNSIDTK EYMSTLTYGF NGNVTGDDTG KIGGLIGANV SIGHTLKYVQ PDFKTILESP TDKKVGWKVI FNNMVNONWG PYDRDSWNPV YGNQLFMKTR NGSMKAADNF LDPNKASSLL SSGFSPDFAT VITMDRKASK QQTNIDVIYE RVRDDYQLHW TSTNWKGTNT KDKWIDRSSE

RYKIDWEKEE $\mathsf{M} \mathsf{T} \mathsf{N}$

Appearance

Lyophilized powder.

Formulation

Lyophilized after extensive dialysis against solution in 20 mM Tris-HC1, 0.5 M NaCl, 6% Trehalose, pH 8.0.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH₂O.

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

Alpha-hemolysin Protein interacts with the membranes of eukaryotic cells, triggering the release of low-molecular-weight molecules and ultimately causing osmotic lysis. Additionally, it is implicated in the inhibition of host neutrophil chemotaxis to the lesion region. The lytic activity of this protein necessitates heptamer oligomerization and pore formation. It undergoes self-assembly, initially forming a non-lytic oligomeric intermediate and subsequently adopting a mushroomshaped homoheptamer structure, measuring up to 100 Angstroms in length and diameter. These structural features

highlight the intricate mechanisms by which Alpha-hemolysin engages with cellular membranes and orchestrates processes leading to cell lysis and immune response modulation.

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

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