

Enterotoxin type H Protein, *S. aureus* (P.pastoris, His)

Cat. No.:	HY-P71807
Synonyms:	entH; sehEnterotoxin type H; SEH
Species:	Staphylococcus aureus
Source:	P. pastoris
Accession:	POA0M0 (25E-241V)
Gene ID:	/
Molecular Weight:	Approximately 27.1 kDa

PROPERTIES

AA Sequence	<pre> EDLHDKSELT DLALANAYGQ YNHPPFIKENI KSDEISGEKD LIFRNQGDSDG NDLRVKFATA DLAQKFKNKN VDIYGASFYY KCEKISENIS ECLYGGTTLN SEKLAQERVI GANVWVDGIQ KETELIRTNK KNVTLQELDI KIRKILSDKY KIYYKDSEIS KGLIEFDMKT PRDYSFDIYD LKGENDYEID KIYEDNKTLK SDDISHIDVN LYTKKKV </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	<p>Enterotoxin type H (ETH) is a staphylococcal enterotoxin that activates the host immune system by binding as unprocessed molecules to major histocompatibility complex class II and T-cell receptor (TCR) molecules, notably through their alpha domain, particularly TRAV27. This interaction forms a ternary complex that, in turn, triggers the activation of a substantial number of T-lymphocytes, initiating a widespread release of pro-inflammatory cytokines. Additionally, ETH is implicated in the development of staphylococcal food poisoning syndrome, a condition characterized by symptoms such as high fever, hypotension, diarrhea, shock, and, in severe cases, potential fatality.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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