

ENTE Protein, *S. aureus* (Baculovirus, His)

Cat. No.:	HY-P72058
Synonyms:	EEnterotoxin type E; SEE; entE
Species:	Staphylococcus aureus
Source:	Sf9 insect cells
Accession:	P12993 (S28-T257)
Gene ID:	/
Molecular Weight:	Approximately 28.4 kDa

PROPERTIES

AA Sequence	<pre> S E E I N E K D L R K K S E L Q R N A L S N L R Q I Y Y Y N E K A I T E N K E S D D Q F L E N T L L F K G F F T G H P W Y N D L L V D L G S K D A T N K Y K G K K V D L Y G A Y Y G Y Q C A G G T P N K T A C M Y G G V T L H D N N R L T E E K K V P I N L W I D G K Q T T V P I D K V K T S K K E V T V Q E L D L Q A R H Y L H G K F G L Y N S D S F G G K V Q R G L I V F H S S E G S T V S Y D L F D A Q G Q Y P D T L L R I Y R D N K T I N S E N L H I D L Y L Y T T </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of 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>ENTE, a staphylococcal enterotoxin, plays a pivotal role in activating the host immune system by binding as unprocessed molecules to major histocompatibility complex class II and T-cell receptor (TCR) molecules. This interaction results in the formation of a ternary complex, which, in turn, activates a significant number of T-lymphocytes, triggering a systemic release of pro-inflammatory cytokines. Beyond its immunomodulatory functions, ENTE is implicated in the development of staphylococcal food poisoning syndrome, a condition characterized by symptoms such as intoxication, fever, and gastrointestinal distress. These activities highlight the impact of ENTE on both immune response pathways and pathological outcomes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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