

Enterotoxin type C-2 Protein, *S. aureus*

Cat. No.:	HY-P71465
Synonyms:	entC2; Enterotoxin type C-2; SEC2
Species:	Staphylococcus aureus
Source:	E. coli
Accession:	P34071 (28E-266G)
Gene ID:	/
Molecular Weight:	Approximately 27.6 kDa

PROPERTIES

AA Sequence	<pre> E S Q P D P T P D E L H K S S E F T G T M G N M K Y L Y D D H Y V S A T K V M S V D K F L A H D L I Y N I S D K K L K N Y D K V K T E L L N E D L A K K Y K D E V V D V Y G S N Y Y V N C Y F S S K D N V G K V T G G K T C M Y G G I T K H E G N H F D N G N L Q N V L I R V Y E N K R N T I S F E V Q T D K K S V T A Q E L D I K A R N F L I N K K N L Y E F N S S P Y E T G Y I K F I E N N G N T F W Y D M M P A P G D K F D Q S K Y L M M Y N D N K T V D S K S V K I E V H L T T K N G </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 C-2 (SEC2) 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. This interaction forms a ternary complex, which subsequently activates a substantial number of T-lymphocytes, initiating a widespread release of pro-inflammatory cytokines. Additionally, SEC2 is implicated in the development of staphylococcal food poisoning syndrome, a condition characterized by symptoms such as gastrointestinal distress and systemic illness.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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