

Enterotoxin type A Protein, *S. aureus* (His)

Cat. No.:	HY-P71509
Synonyms:	entAEnterotoxin type A; SEA
Species:	Staphylococcus aureus
Source:	E. coli
Accession:	P0A0L2 (S25-S257)
Gene ID:	/
Molecular Weight:	Approximately 28 kDa

PROPERTIES

AA Sequence	SEKSEEINEK DLRKKSELQG TALGNLKQIY YYNEKAKTEN KESHDAQFLQH TILFKGFFTD HSWYNDLLVD FDSKDIDVKY KGKKVDLYGA YGYQCAGGT PNKTACMYGG VTLHDNNRLT EEKKVPINLW LDGKQNTVPL ETVKTNKKNV TVQELDLQAR RYLQEKYNLY NSDVFDGKVQ RGLIVFHTST EPSVNYDLFG AQQQYSNTLL RIYRDNKTIN SENMHIDIYL YTS
Appearance	Lyophilized powder.
Formulation	Lyophilized a 0.2 µm filtered solution of 50 mM Tris, 300 mM NaCl, 5% trehalose, 5% mannitol and 0.01% Tween80, pH 7.4.
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	Enterotoxin type A (ETA) is a staphylococcal enterotoxin that instigates host immune system activation by binding in its unprocessed form to major histocompatibility complex class II and T-cell receptor (TCR) molecules. This interaction sets off a cascade of events involving waves of cellular activation, cytokine production, and migration, primarily mediated by alphabeta T-cells, ultimately affecting lung tissue and airways. Additionally, ETA is implicated in the development of staphylococcal food poisoning syndrome, characterized by symptoms such as high fever, hypotension, diarrhea, shock, and, in severe cases, potential fatality.
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Caution: Product has not been fully validated for medical applications. For research use only.

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