

## Enterotoxin type E Protein, *S. aureus*, Recombinant (His & SUMO)

### General Information

Synonyms:	entE;SEE;Enterotoxin type E
Protein Construction:	28-257 aa
Species:	<i>Staphylococcus aureus</i>
Expression Host:	<i>E. coli</i>
Accession:	P12993
Molecular Weight:	42.4 kDa (predicted)
AA Sequence:	SEEINEKDLRKKSELQRNALSNLRQIYYNEKAITENKESDDQFLENTLLFKGFFTGHPWYNDLLVDLGSKDAT NKYKGGKVDLYGAYYGQCAGGTPNKTACMYGGVTLHDNNRLTEEKKVPINLWIDGKQTTVPIDKVKTSKKE VTVQELDLQARHYLHGKFGLYNSDSFGGKVQRGLIVFHSSEGSTVSYDLFDAQGQYPTLLRIYRDNKTINSE NLHIDLPLYTT

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

Staphylococcal enterotoxin that activates the host immune system by binding as unprocessed molecules to major histocompatibility (MHC) complex class II and T-cell receptor (TCR) molecules. In turn, this ternary complex activates a large number of T-lymphocytes initiating a systemic release of proinflammatory cytokines. Causes also the intoxication staphylococcal food poisoning syndrome.

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