

Enterotoxin type G Protein, *S. aureus* (strain Mu50/ATCC 700699), Recombinant (His & SUMO)

## General Information

Synonyms: seg;Enterotoxin type G;entG

Protein Construction: 26-258 aa

Species: *Staphylococcus aureus*

Expression Host: *E. coli*

Accession: P0A0L6

Molecular Weight: 43.0 kDa (predicted)

AA Sequence:

QPDPKLDELNKVSDYKNNKGTMGNVMNLYTSPPEVGRGVINSRQFLSHDLIFPIEYKSYNEVKTELENELAN  
NYKDKKVDIFGVPPYFYTCIIPKSEPDINQNFGGCCMYGGLTFNSENEDKLITVQVTIDNRQSLGFTITTNKNM  
VTIQELDYKARHWLTKEKKLYEFDGSAFESGYIKFTEKNNTSFWFDLFPKKELVPFVVPYKFLNIYGDNKVVDSK  
SIKMEVFLNTH

## 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 enterotoxins cause the intoxication staphylococcal food poisoning syndrome. The illness is characterized by high fever, hypotension, diarrhea, shock, and in some cases death.

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