

## Staphopain B Protein, *S. aureus*, Recombinant (GST)

### General Information

Synonyms:	Staphopain B;Staphylopain B;sspB;Staphylococcal cysteine proteinase B
Protein Construction:	220-393 aa
Species:	<i>Staphylococcus aureus</i>
Expression Host:	<i>E. coli</i>
Accession:	Q99V46
Molecular Weight:	46.9 kDa (predicted)
AA Sequence:	DQVQYENTLKNFKIREQQFDNSWCAGFSMAALLNATKNTDTYNAHDIMRTLYPEVSEQDLPNCATFPNQMI EYGKSQGRDIHYQEGVPSYNQVDQLTKDNVIGIMILAQSVSQNPNDPHLGHALAVVGNNAKINDQEKLIIYWNP WDELSIQDADSSLLHLSFNRDYNWYGSMIGY

### 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. <small>Actual storage temperature shall be subject to the COA.</small>

### Shipping:

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

### Protein Background

Cysteine protease that plays an important role in the inhibition of host innate immune response. Degrades host elastin, fibrogen, fibronectin and kininogen. Blocks phagocytosis of opsonised *S. aureus* by neutrophils and monocytes by inducing their death in a proteolytic activity-dependent manner. Decreases surface expression of the 'don't eat me' signal CD31 on neutrophils. Cleaves host galectin-3/LGALS3, thereby inhibiting the neutrophil-activating ability of the lectin.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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