



## Scn, Recombinant, Staphylococcus Aureus, aa32-116, His-SUMO-Tag (Staphylococcal Complement Inhibitor)

### Catalog number

375222

### Supplier

United States Biological

Involved in countering the first line of host defense mechanisms. Efficiently inhibits opsonization, phagocytosis and killing of S.aureus by human neutrophils. Acts by binding and stabilizing human C3 convertases (C4b2a and C3bBb), leading to their inactivation. The convertases are no longer able to cleave complement C3, therefore preventing further C3b deposition on the bacterial surface and phagocytosis of the bacterium. Also prevents C5a-induced neutrophil responses (By similarity).

### Source

Recombinant protein corresponding to aa32-116 from staphylococcus aureus Scn, fused to His-SUMO-Tag at N-terminal, expressed in E. coli.

### Molecular Weight

~25.8kD

### AA Sequence

STSLPTSNEYQNEKLANELKSLLDLNLVNELATGSLNITYYKRTIKISGLKAMYALKSKDFKKMSEAKYQLQKIYNEIDE  
ALKSKY

### Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

### Formulation

Supplied as a liquid in Tris-HCl, pH 8.0, 1mM EDTA, 50% glycerol.

### Purity

≥90% (SDS-PAGE)

### Grade

Purified

### Storage

-20°C

### MW

25.8

### Antigen Modification

Recombinant, E. coli



## Reference

1. "Whole genome sequencing of meticillin-resistant *Staphylococcus aureus*." Kuroda M., Ohta T., Uchiyama I., Baba T., Yuzawa H., Kobayashi I., Cui L., Oguchi A., Aoki K., Nagai Y., Lian J.-Q., Ito T., Kanamori M., Matsumaru H., Maruyama A., Murakami H., Hosoyama A., Mizutani-Ui Y. Hiramatsu K. *Lancet* 357:1225-1240(2001).