

SdrE Protein, *S. aureus*, Recombinant (His)

## General Information

Synonyms: Serine-aspartate repeat-containing protein E; sdrE

Protein Construction: 53-601 aa

Species: *Staphylococcus aureus*

Expression Host: *E. coli*

Accession: Q932F7

Molecular Weight: 64.5 kDa (predicted)

AA Sequence: AENTSTENAKQDDATTSNKEVSETENNSTTENDSTNPIKKETNTDSQPEAKEESTTSSTQQQNNVTATT  
ETKPQNIKENVKPKSTDKTATEDTSVILEEKKAPNYTNNVTTKPKSTSEIQTKPTTPQESTNIENSQPQPTPSKV  
DNQVTDATNPKEPVNVSKEELKNNPEKLKELVRNDNNTDRSTKPVATAPTSVAPKRLNAKMRFAVAQPAAV  
ASNNVNDLITVTKQTIKVGDKDNVAAAHGDKDIEYDTEFTIDNKVKKGDTMTINYDKNVIPSIDLTKNDPIDI  
TDPGSEVIAGKTFDKATKQITYTFTDYVDKYEDIKARLTLYSYIDKQAVPNETSLNLTAFATAGKETSQNVSVDYQ  
DPMVHGDSNIQSIFTKLDENKQTIEQQIYVNPLKKTATNTKVDIAGSQVDDYGNIKLNGSTIIDQNTTEIKVYK  
VNPNNQLPQSNRIYDFSQYEDVTSQFDNKKSFNNVATLDFGDINSAYIIKVVSKYTPSDGELDIAQGTSMR  
TTDKYGYNYAGYSNFIVTSNNTGGGDGTVKPEEK

## 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

## A DRUG SCREENING EXPERT

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Cell surface-associated calcium-binding protein which plays an important role in adhesion and pathogenesis. Contributes to the resistance to killing by innate immune components in blood and thus attenuates bacterial clearance by interacting with host complement factor H/CFAH and modulating its activity. Inhibits also bacterial opsonization and killing by interacting with host complement regulator C4BPA and thus inhibiting classical complement pathway activation.

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