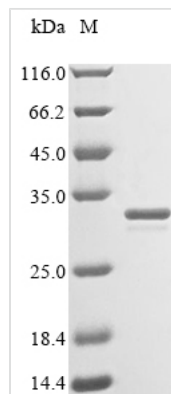




# Recombinant Staphylococcus aureus Sortase A (srtA), partial

<b>Product Code</b>	CSB-EP3093FLF
<b>Abbreviation</b>	Recombinant Staphylococcus aureus srtA protein, partial
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q2FV99
<b>Form</b>	Liquid or Lyophilized powder
<b>Storage Buffer</b>	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Staphylococcus aureus (strain NCTC 8325)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	AKPHIDNYLHDKDKDEKIEQYDKNVKEQASKDKKQQAQPKQIPKDKSKVAGYIEI PDADIKEPVYPGPATPEQLNRGVSF AEENESLDDQNISIAGHTFIDRPNYQFTN LKAACKGSMVYFKVGNETRKYKMTSIRDVKPTDVGVLDEQKGKDKQLTLITCD DYNEKTGVWEKRRKIFVATEVK
<b>Research Area</b>	Microbiology
<b>Source</b>	E.coli
<b>Target Names</b>	srtA
<b>Expression Region</b>	25-206aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	24.9 kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

## Description

The region for expressing recombinant *Staphylococcus aureus* (strain NCTC 8325) *srtA* contains amino acids 25-206. The calculated molecular weight for this *srtA* protein is 24.9 kDa. This protein is generated in a *e.coli*-based system. The *srtA* gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant *srtA* protein during the following stages.

*Staphylococcus aureus* sortase A (SrtA) is an enzyme crucial for viral virulence and pathogenesis. SrtA is a transpeptidase that anchors surface proteins to the bacterial cell wall by catalyzing the covalent attachment of these proteins to peptidoglycan. This process is known as sortase-mediated anchoring and is essential for the display of virulence factors on the bacterial surface. The anchored proteins play a role in host-cell adhesion, immune evasion, and biofilm formation. Due to its importance in *S. aureus* pathogenicity, SrtA has been explored as a potential target for developing antimicrobial strategies against staphylococcal infections.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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