

Sortase A, *S. aureus*

## Chemical Properties

CAS No. : 9033-39-0

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

|               |   |
|---------------|---|
| Description   | Sortase A, <i>S. aureus</i> (SrtA) is found in many Gram-positive bacteria and facilitates the recruitment of cell surface proteins. It plays a crucial role in the attachment of various molecules on the cell surface.  |
| Targets(IC50) | Antibacterial   |
| In vitro      | The product can be diluted with sterile purified water to a concentration of 0.5 µg/µL for use. Peptide reaction system preparation (30 µL system) includes: Test group: 5 µL Srt3 (1 mM), 5 µL Srt4 (1 mM), 5 µL Sortase A (0.5 µg/µL), 10 µL 3× reaction Buffer, and 5 µL ddH <sub>2</sub> O; Control group: 5 µL Srt3 (1 mM), 5 µL Srt4 (1 mM), 20 µL ddH <sub>2</sub> O. Prepare the corresponding control and test groups as per the table, mix the test group reagents evenly, centrifuge, and react at 30°C for 1-3 hours. After the reaction, synchronize SDS-PAGE electrophoresis for both groups. Notes: 3× reaction Buffer consists of 100 mM Tris-HCl 7.5, 50 mM CaCl <sub>2</sub> , and 20 mM DTT. The synthetic peptides used for the performance reaction are as follows: SrtA-3 YGVRLCGREFIRAVIFTCGGSRWRRKGGLPRTGG (34) and SrtA-4 GGGGSGRRSRRSRQDLQTLCTDGCSTDLALC (35). When synthesizing peptides, it is recommended to divide them into small tubes and dissolve them in sterile purified water, preparing and using them immediately. |

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