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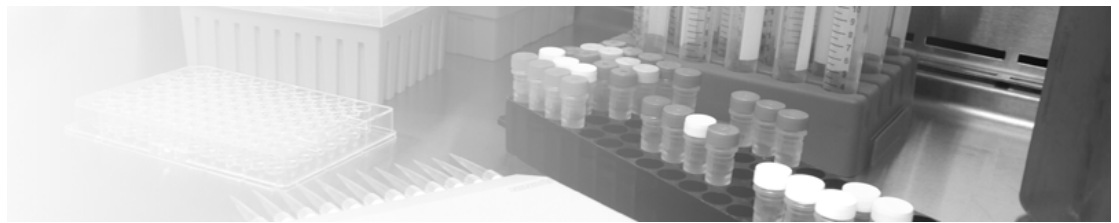
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## WT-SrtA

Wild Type Sortase A, Calcium Dependent

Catalog Number: SRTA-WT-100

**WT-SrtA** is a recombinant form of SrtA from *Staphylococcus aureus*. The recombinant protein comprises amino acids 60-206 of SrtA and a C-terminal His tag, and is expressed in *E. coli*. **WT-SrtA** recognizes an LPXTG motif and catalyzes calcium dependent transamination between the T and G residues.

## Recombinant Sortase Mediated Conjugation

Sortases are transpeptidases found in many Gram-positive bacteria. Among them, Sortase A (SrtA) recognizes LPXTG motif and catalyzes the transamination between the T and G residues. SrtA-mediated ligation has recently emerged as an attractive tool for protein engineering, with applications ranging from protein conjugation and surface labeling. This ligation reaction enables conjugation of natural and unnatural polypeptides, fluorescent probes, sugar moiety, nucleic acids, lipids, toxins, synthetic compounds at either end of the LPXTG motif, and has created innovative applications in cell-surface labeling, creating chimeric multifunctional proteins, and beyond. In addition to conjugation, SrtA-fusion expression can also be used as a protein purification tool.