

Recombinant *S. aureus* Sortase A Protein, His tagged

Cat. No. SAOUHSC_02834-46S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Sortase A from <i>Staphylococcus aureus</i> was expressed in <i>E. coli</i> expression system with a N-terminal His tag. The activity of Sortase A can be measured in a FRET-based enzymatic assay
Species	<i>S.aureus</i>
Source	<i>E.coli</i>
ProteinLength	26-206aa
Description	Sortases are a family of membrane-anchored transpeptidases expressed by Gram-positive bacteria. Sortase A catalyzes the cleavage of C-terminal recognition motif (LPXTG) of multiple structurally unrelated proteins followed by formation of an amide bond with the peptidoglycan layer of the bacteria. Since Sortases are widely distributed among a variety of bacterial pathogens and required for virulence, Sortases represent a promising therapeutic target for the development of novel anti-infective agents. In addition, Sortase A can be used as a biotechnology tool for a variety of protein modifications and immobilization by sortase-mediated protein ligation.
Tag	N-His
Form	Solution
Molecular Mass	21.7 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	FRET; Protease activity
Usage	Research use
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/ml
Storage Buffer	40 mM Tris-HCl, pH 8.0, 110 mM NaCl, and 2.2 mM KCl, 8 mM imidazole, 0.04% Tween 20, and 20 % glycerol.
References	1. Spirig T, et al. Mol Microbiol 82, 1044 (2011). 2. Marraffini LA, et al. Microbiol Mol Biol Rev 70, 192 (2006). 3. Maresso AW, et al. Pharmacol Rev 60, 128 (2008). 4. Proft T. Biotechnol Lett 32, 1 (2010).

GENE INFORMATION

Gene Name	SAOUHSC_02834 sortase [<i>Staphylococcus aureus</i> subsp. <i>aureus</i> NCTC 8325]
Official Symbol	SAOUHSC_02834
Synonyms	SAOUHSC_02834; sortase; sortase, putative; Sortase A
Gene ID	3921273
Protein Refseq	YP_501293
UniProt ID	Q2FV99

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