Fig. S1. Chemical structures of 106 natural products from marine-derived fungi. Blue color: the 18 bioactive compounds against *S. aureus*, Red color: the important site for anti-biofilm activity.
Fig. S1. Continued.
Fig. S1. Continued.
Fig. S1. Continued.
Fig. S1. Continued.

Fig. S2. Respective CLSM three-dimensional images of *S. aureus* were observed in the presence of 0, 1.5, 3, and 6 µg/ml SAD.
### Table S1. Sequences of the primers used for qRT-PCR.

<table>
<thead>
<tr>
<th>Gene</th>
<th>Name</th>
<th>Primer sequence (5′→3′)</th>
</tr>
</thead>
<tbody>
<tr>
<td>16S</td>
<td>A component of ribosomes</td>
<td>TGTTTGACGATGTTTGAGCA / CCTCCTCCAGTTGAGTGC</td>
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<tr>
<td>agr</td>
<td>Quorum-sensing regulator A</td>
<td>TGATAATCCTTTAGTGGTCTT / CACTGTGACTGTAACGAAAA</td>
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<tr>
<td>hla</td>
<td>α-Hemolysin</td>
<td>CGGCACATTTCACAAATAAGGC / GGTTAGCGCTGGCCTACAGC</td>
</tr>
<tr>
<td>isaA</td>
<td>Transglycosylase</td>
<td>GCTCAAAATCGTCTCAAGCTT / TTAGTCTAGCTGAACGTGAGGCA</td>
</tr>
<tr>
<td>sigB</td>
<td>RNA polymerase sigma factor</td>
<td>AATGTGTTTGAGACGTGCCTT / TCGATAACACTAAACCAAGGCT</td>
</tr>
<tr>
<td>icaA</td>
<td>Intercellular adhesion A</td>
<td>CTGGCGAGTCACTATATATGTGTCAACG / GACCTCCAAATGTCTGGGAAACCAACATCC</td>
</tr>
<tr>
<td>icaD</td>
<td>Intercellular adhesion D</td>
<td>ATGGTCAGCCCAAGGGAAGAG / AGATTTTTCAATGTTGGAAGCA</td>
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<tr>
<td>nuc1</td>
<td>Nuclease</td>
<td>CACCTGAAACAAAGCATTCAA / TATACGCTAAAGCCAGTCC</td>
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<tr>
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<td>Nuclease</td>
<td>GTAGCCATCATTTATGGATG / GTATCCATCCAAACCT</td>
</tr>
<tr>
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<td>Zinc metalloproteinase</td>
<td>ACCGGTGTGTAATTCTGTCCTAT / ATGGTCCAGTTACAAAGGTTT</td>
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<td>clp</td>
<td>Serine protease</td>
<td>CAGATCCAGTCACTTCAAT / GTTCTCAAAATGTGACAGG</td>
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<tr>
<td>sspA</td>
<td>Serine protease</td>
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</tr>
<tr>
<td>sspB</td>
<td>Cysteine protease (Staphopain)</td>
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</tr>
<tr>
<td>sspC</td>
<td>Cysteine protease (Staphopain)</td>
<td>TCATTGGTATGGGATATTACAT / TGCTGGTTATCATCAAAG</td>
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<td>PSM δ-toxin</td>
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<tr>
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<td>Cysteine protease (Staphopain)</td>
<td>AGCATTAAACAGACGAT / GGTGCAATCACATCAT</td>
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<td>PSMα</td>
<td>Phenol-soluble modulin α-peptide</td>
<td>CATCGCTGGCATTTGAAAGTT / ACCAGTGAATTGCTAGAAGG</td>
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<tr>
<td>PSMβ</td>
<td>Phenol-soluble modulin β-peptide</td>
<td>AGCAGCACAAGATGTTTCAT / CTAATAGCTACGACC</td>
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