SUPPORTING INFORMATION

Palladium-Catalyzed mono-N-Allylation of Unprotected Amino Acids with 1,1-Dimethylallyl Alcohol in Water.

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1. Copies of $^1$H and $^{13}$C-NMR S1
2. Copies of HPLC analytical data: optical purity of (S)-3a methyl ester S20
Determination of optical purity of (S)-3a
(S)-N-(3-methyl-2-buten-1-yl)tryptophan methyl ester

<table>
<thead>
<tr>
<th>Retention time (min)</th>
<th>Area%</th>
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</thead>
<tbody>
<tr>
<td>22.836</td>
<td>0.24</td>
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<tr>
<td>29.454</td>
<td>99.76</td>
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</tbody>
</table>

HPLC conditions
CHIRALCEL AD-H, n-hexane/EtOH=97/3, 1.0 mL/min, 220 nm (UV), column temp.: 28 °C