Ponasterone A and Muristerone A

Contents and Storage

This manual is supplied with Ponasterone A and Muristerone A. Both reagents are shipped at room temperature. Upon receipt, store as detailed below.

<table>
<thead>
<tr>
<th>Reagent</th>
<th>Catalog no.</th>
<th>Amount</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ponasterone A</td>
<td>H101-01</td>
<td>1 mg (4 x 250 µg), lyophilized</td>
<td>-20°C</td>
</tr>
<tr>
<td></td>
<td>H101-03</td>
<td>100 mg (1 tube), lyophilized</td>
<td>-20°C</td>
</tr>
<tr>
<td>Muristerone A</td>
<td>H100-01</td>
<td>1 mg (4 x 250 µg), lyophilized</td>
<td>-20°C</td>
</tr>
</tbody>
</table>

Description

Ponasterone A and muristerone A are polyhydroxylated steroids with strong molting hormone activity in insects. Ponasterone A was first isolated from the plant Podocarpus nakaii (Nakanishi et al., 1966) and was subsequently shown to induce molting in houseflies and silkworms (Kobayashi et al., 1967). For a review of ponasterone, see Nakanishi, 1992. For more information on muristerone, see Christopherson, 1992.

Molecular Weight, Formula, and Structure

Ponasterone A
MW: 464.65
Formula: C_{27}H_{44}O_{6}

Muristerone A
MW: 496.6
Formula: C_{27}H_{44}O_{8}

Preparing and Storing Stock Solutions

Ponasterone A and muristerone A are soluble in 100% ethanol. To prepare an ~1 mM stock solution (1.1 mM):
• Add 500 µl of 100% ethanol to one vial of ponasterone A or muristerone A (250 µg, ~0.5 µmole)
• Vortex to dissolve
• Do not heat solution to dissolve ponasterone A or muristerone A
• Store the 1 mM stock solution at +4° or at -20°C for long-term storage.

continued on next page
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References


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