Product Name: (S)-(+) - Dimethindene maleate
Catalog No.: 1425
Batch No.: 2
CAS Number: 136152-65-3
IUPAC Name: N,N-Dimethyl-3-[[1(S)-1-(2-pyridinyl)ethyl]-1H-indene-2-ethanamine maleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{20}H_{24}N_{2}C_{4}H_{4}O_{4}\cdot{\frac{1}{4}}H_{2}O
Batch Molecular Weight: 413
Physical Appearance: White solid
Solubility: water to 100 mM with gentle warming
DMSO to 100 mM
Storage: Desiccate at RT

2. ANALYTICAL DATA

TLC: R_{f} = 0.5 (Dichloromethane: Methanol: Ammonia soln. [6:3\frac{1}{2}:\frac{1}{2}])
Melting Point: Between 133 - 134°C
HPLC: Shows 100% purity
^{1}H NMR: Consistent with structure
Optical Rotation: [\alpha]_{D} = +133.3 (Concentration = 1, Solvent = Water)
Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>69.8</td>
<td>70.07</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>6.96</td>
<td>6.94</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>6.78</td>
<td>6.75</td>
</tr>
</tbody>
</table>
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CAS Number: 136152-65-3

IUPAC Name: N,N-Dimethyl-3-[(1S)-1-(2-pyridinyl)ethyl]-1H-indene-2-ethanamine maleate

Description:
Enantiomer that is a subtype-selective M₂ muscarinic receptor antagonist (pKᵢ values are 7.08, 7.78, 6.70 and 7.00 for M₁, M₂, M₃ and M₄ receptors respectively). Also H₁ histamine receptor antagonist (pKᵢ = 7.48).

Physical and Chemical Properties:
Batch Molecular Formula: C₂₀H₂₄N₂.C₄H₄O₄·¹/₄H₂O
Batch Molecular Weight: 413
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate at RT

Solubility & Usage Info:
- Water to 100 mM with gentle warming
- DMSO to 100 mM

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).
Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:
SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.
SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: