Product Name: (+)-SK&F 10047 hydrochloride
Catalog No.: 1079  Batch No.: 6
CAS Number: 133005-41-1
IUPAC Name: (2S,6S,11S)-1,2,3,4,5,6-Hexahydro-6,11-dimethyl-3-(2-propenyl)-2,6-methano-3-benzazocin-8-ol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C_{17}H_{23}NO.HCl.\frac{1}{4}H_2O
Batch Molecular Weight: 298.34
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.6% purity
1H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [\alpha]_D = +89.5 (Concentration = 1, Solvent = Ethanol)
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>68.44</td>
<td>8.28</td>
<td>4.69</td>
</tr>
<tr>
<td>Found</td>
<td>68.56</td>
<td>8.38</td>
<td>4.64</td>
</tr>
</tbody>
</table>
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Description:
Prototypical σ₁ receptor agonist. Behaviorally active in animal models of memory and stress.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₁H₂₃NO.HCl.½H₂O  
Batch Molecular Weight: 298.34  
Physical Appearance: White solid  
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Desiccate at +4°C

Solubility & Usage Info:
- water to 100 mM
- 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.

Other Information:
INFORMATION FOR CUSTOMERS IN CANADA ONLY
This product is a Schedule I CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References: