1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{22}\text{H}_{23}\text{NO}_{7}\cdot\text{HCl}\cdot\text{H}_{2}\text{O} \)

Batch Molecular Weight: 467.9

Physical Appearance: White solid

Solubility: 1 eq. HCl to 50 mM ethanol to 10 mM with gentle warming

DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:

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2. ANALYTICAL DATA

TLC: \( R_f = 0.73 \) (Dichloromethane:Methanol:Ammonia soln. [9:1:0.01])

Melting Point: 218°C

HPLC: Shows 100% purity

\(^1\)H NMR: Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>56.47</td>
<td>5.6</td>
<td>2.99</td>
</tr>
<tr>
<td>Found</td>
<td>56.28</td>
<td>5.44</td>
<td>2.91</td>
</tr>
</tbody>
</table>
Product Name: Noscapine hydrochloride

CAS Number: 912-60-7

IUPAC Name: (3S)-6,7-Dimethoxy-3-[(5R)-5,6,7,8-tetrahydro-4-methoxy-6-methyl-1,3-dioxolo[4,5-g]isoquinolin-5-yl]-1(3H)-isobenzofuranone hydrochloride

Description:

Physical and Chemical Properties:
Batch Molecular Formula: C_{22}H_{23}NO_{7}.HCl.H_2O
Batch Molecular Weight: 467.9
Physical Appearance: White solid
Minimum Purity: >99%

Storage: Desiccate at RT

Solubility & Usage Info:
1eq. HCl to 50 mM ethanol to 10 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: