1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{15}\text{H}_{21}\text{ClN}_{4} \frac{1}{2}\text{H}_{2}\text{O} \)
Batch Molecular Weight: 301.82
Physical Appearance: White crystalline solid
Solubility: water to 100 mM, DMSO to 100 mM
Storage: Desiccate at +4°C

2. ANALYTICAL DATA

TLC: \( R_f = 0.37 \) (Dichloromethane:Methanol [9:1])
Melting Point: Between 202 - 205°C
HPLC: Shows 99.9% purity
\(^1\text{H NMR:}\) Consistent with structure

Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Chlorine</th>
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<tbody>
<tr>
<td>Theoretical</td>
<td>59.69</td>
<td>7.35</td>
<td>18.56</td>
<td>11.75</td>
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<tr>
<td>Found</td>
<td>59.91</td>
<td>7.27</td>
<td>18.45</td>
<td>12.04</td>
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</table>
Product Information

Product Name: ZD 7288
Catalog No.: 1000
Batch No.: 6

CAS Number: 133059-99-1
IUPAC Name: 4-Ethylphenylamino-1,2-dimethyl-6-methylaminopyrimidinium chloride

Description:
Sino-atrial node function modulator; blocks the hyperpolarization activated cation current Iₖ (HCN channel). Blocks Iₖ in central neurons. Increases NMDA-evoked noradrenaline release in rat brain in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₅H₂₁ClN₄·½H₂O
Batch Molecular Weight: 301.82
Physical Appearance: White crystalline solid
Minimum Purity: >99%

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.

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References: