1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{15}H_{21}ClN_4 \cdot \frac{1}{2}H_2O$

**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

**$^1$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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<td>Found</td>
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<td>7.27</td>
<td>18.45</td>
<td>12.04</td>
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</table>
Product Information

Product Name: ZD 7288
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 I_{\text{H}} (HCN channel). Blocks I_{\text{H}} in central neurons. Increases NMDA-evoked noradrenalin release in rat brain in vitro.

Physical and Chemical Properties:
Batch Molecular Formula: C_{10}H_{12}ClN_{4}\cdot\frac{1}{2}H_{2}O
Batch Molecular Weight: 301.82
Physical Appearance: White crystalline solid

Minimum Purity: >99%

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.

References:

