1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{15}\text{H}_{18}\text{N}_4\text{O} \cdot \frac{1}{4}\text{H}_2\text{O}$

Batch Molecular Weight: 274.83

Physical Appearance: Yellow solid

Solubility: 1eq. HCl to 100 mM ethanol to 100 mM DMSO to 20 mM

Storage: Store at +4°C

2. ANALYTICAL DATA

TLC: $R_f = 0.18$ (Dichloromethane:Methanol:2M NH3 [100:1])

HPLC: Shows >99.6% purity

$^1$H NMR: Consistent with structure

Mass Spectrum: 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>65.56</td>
<td>6.78</td>
<td>20.39</td>
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<tr>
<td>Found</td>
<td>65.65</td>
<td>6.66</td>
<td>20.61</td>
</tr>
</tbody>
</table>
Product Name: TC-E 5005
Catalog No.: 4572
Batch No.: 1

CAS Number: 959705-64-7
IUPAC Name: 2-Methoxy-6,7-dimethyl-9-propyl-imidazo[1,5-a]pyrido[3,2-e]pyrazine

Description:
Potent and selective PDE10A inhibitor (IC₅₀ values are 7.28, 239, 779, 919, 3100 and 3700 nM at PDE10A, 2A, 11A, 5A, 7B and 3A respectively and >5000 nM at PDE1B, 4A, 6, 8A and 9A). Reverses MK 801-induced hyperactivity in vivo.

Physical and Chemical Properties:
Batch Molecular Formula: C₁₉H₁₈N₄O.¼H₂O
Batch Molecular Weight: 274.83
Physical Appearance: Yellow solid
Minimum Purity: >99%

Storage: Store at +4°C

Solubility & Usage Info:
1eq. HCl to 100 mM ethanol to 100 mM
DMSO to 20 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: