

Certificate of Analysis

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Product Name: TC-E 5005

Catalog No.: 4572

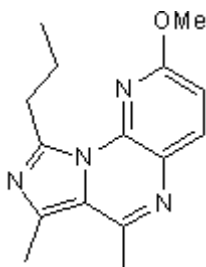
Batch No.: 1

CAS Number: 959705-64-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₈N₄O.¼H₂O
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
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.18 (Dichloromethane:Methanol:2M NH₃ [100:1])
HPLC: Shows >99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.56	6.78	20.39
Found	65.65	6.66	20.61

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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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:

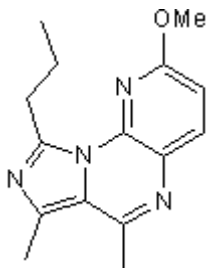
Batch Molecular Formula: C₁₅H₁₈N₄O.¼H₂O

Batch Molecular Weight: 274.83

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



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:

Hofgen et al (2010) Discovery of imidazo[1,5-a]pyrido[3,2-e]pyrazines as a new class of phosphodiesterase 10A inhibitors. *J.Med.Chem.* **53** 4399. PMID: 20450197.

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