Certificate of Analysis

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Print Date: Jan 13th 2016

Product Name: Ro 10-5824 dihydrochloride

Catalog No.: 2329 Batch No.: 2

CAS Number: IUPAC Name:

Storage:

TOCRIS

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189744-94-3 5-[(3,6-Dihydro-4-phenyl-1(2*H*)-pyridinyl)methyl]-2-methyl-4-pyrimidinamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₁₇H₂₀N₄.2HCl 353.29 White solid water to 100 mM DMSO to 75 mM Desiccate at RT

 NH_2 .2HCI

2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: $R_{f} = 0.6 \text{ (Chloroform:Methanol [9:1])}$ Shows >99.85% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 57.8 6.28 15.85
Found 58.05 6.21 16.03

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

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IUPAC Name: 5-[(3,6-Dihydro-4-phenyl-1(2H)-pyridinyl)methyl]-2-methyl-4-pyrimidinamine dihydrochloride

Description:

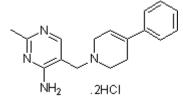
Selective dopamine D₄ receptor partial agonist (EC₅₀ = 205 nM) that binds with high affinity (K_i = 5.2 nM). Displays 250-fold selectivity over D₃ receptors and > 1000-fold selectivity over D₂, D₁ and D₅ receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₂₀N₄.2HCl Batch Molecular Weight: 353.29 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info: water to 100 mM DMSO to 75 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).

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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:

Powell et al (2003) RO-10-5824 is a selective dopamine D4 receptor agonist that increases novel object exploration in C57 mice. Neuropharmacology **44** 473. PMID: 12646284.

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