



Certificate of Analysis

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Product Name: Ro 20-1724 Catalog No.: 0415 Batch No.: 6

CAS Number: 29925-17-5

IUPAC Name: 4-(3-Butoxy-4-methoxyphenyl)methyl-2-imidazolidone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{22}N_2O_3$.Batch Molecular Weight:278.35Physical Appearance:White solid

Solubility: ethanol to 100 mM

DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 64.73 7.97 10.06 Found 64.93 8.01 10.14



Product Information

Print Date: May 6th 2025

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CAS Number: 29925-17-5

IUPAC Name: 4-(3-Butoxy-4-methoxyphenyl)methyl-2-imidazolidone

Description:

Ro 20-1724 is a widely used inhibitor of cyclic nucleotide phosphodiesterase, selective for PDE4 (IC $_{50}$ = 2.0 μ M).

Physical and Chemical Properties:

Batch Molecular Formula: $C_{15}H_{22}N_2O_3$. Batch Molecular Weight: 278.35 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at RT

Solubility & Usage Info:

ethanol 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Soderling *et al* (1998) Cloning and characterization of a cAMP-specific cyclic nucleotide phosphodiesterase. Proc.Natl.Acad.Sci.U.S.A. **95** 8991. PMID: 9671792.

Nicholson *et al* (1991) Differential modulation of tissue function and therapeutic potential of selective inhibitors of cyclic nucleotide phosphodiesterase isoenzymes. TiPS **12** 19. PMID: 1848733.

Reeves et al (1987) The identification of a new cyclic nucleotide phosphodiesterase activity in human and guinea-pig cardiac ventricle. Biochem.J. **241** 535. PMID: 3036066.

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