

Certificate of Analysis

www.tocris.com

Product Name: Ro 20-1724

Catalog No.: 0415

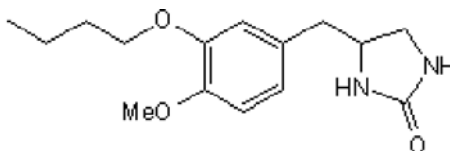
Batch No.: 5

CAS Number: 29925-17-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₂N₂O₃.
Batch Molecular Weight: 278.35
Physical Appearance: White solid
Solubility: ethanol to 100 mM
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.73	7.97	10.06
Found	64.92	8.03	10.19

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

bio-techne.com
 info@bio-techne.com
 techsupport@bio-techne.com

North America
 Tel: (800) 343 7475

China
 info.cn@bio-techne.com
 Tel: +86 (21) 52380373

Europe Middle East Africa
 Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
 Tel: +1 612 379 2956

Product Name: Ro 20-1724

Catalog No.: 0415

Batch No.: 5

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 ($IC_{50} = 2.0 \mu M$).

Physical and Chemical Properties:

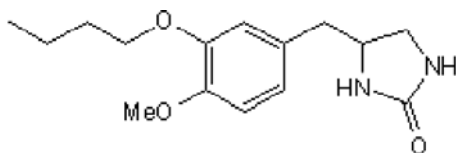
Batch Molecular Formula: $C_{15}H_{22}N_2O_3$.

Batch Molecular Weight: 278.35

Physical Appearance: White solid

Minimum Purity: $\geq 99\%$

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. 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:

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956