

Product Name: Cilostazol

Catalog No.: 1692

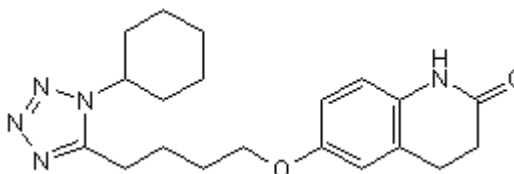
Batch No.: 1

CAS Number: 73963-72-1

IUPAC Name: 6-[4-(1-Cyclohexyl-1H-tetrazol-5-yl)butoxy]-3,4-dihydro-2(1H)-quinolinone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₇N₅O₂
Batch Molecular Weight: 369.47
Physical Appearance: White crystalline solid
Solubility: ethanol to 10 mM
DMSO to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.78 (Dichloromethane:Methanol [4:1])
Melting Point: 146 - 149°C
HPLC: Shows 100% purity
¹H NMR: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Theoretical	Found	
	65.02	64.86	7.37
			7.44
			18.95
			18.88

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

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Description:

Potent phosphodiesterase III A (PDE3A) inhibitor (IC₅₀ = 0.2 μM) and inhibitor of adenosine uptake. Has antimitogenic, antithrombotic, vasodilatory and cardiotoxic properties in vivo. Also affects lipid levels in vivo.

Physical and Chemical Properties:

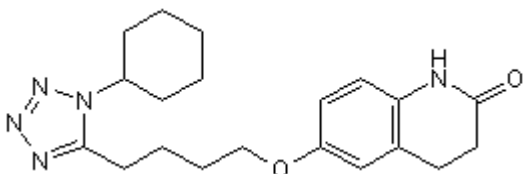
Batch Molecular Formula: C₂₀H₂₇N₅O₂

Batch Molecular Weight: 369.47

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Shintani et al (1985) General pharmacological properties of cilostazol, a new antithrombotic drug. Part I: effects on the central nervous system. *Arzneimittelforschung* **35** 1157. PMID: 4074429.

Shintani et al (1985) General pharmacological properties of cilostazol, a new antithrombotic drug. Part II: effects on the peripheral organs. *Arzneimittelforschung* **35** 1163. PMID: 3000392.

Schror (2002) The pharmacology of cilostazol. *Diabetes Obes.Metab.* **4** S14. PMID: 12180353.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM

DMSO to 50 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.

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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