

Product Name: Cilostamide

Catalog No.: 0915

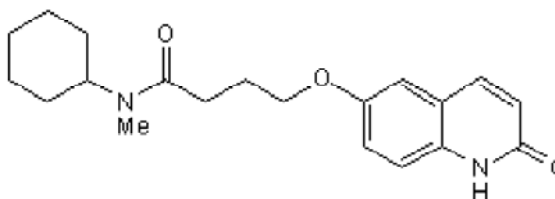
Batch No.: 3

CAS Number: 68550-75-4

IUPAC Name: *N*-Cyclohexyl-*N*-methyl-4-(1,2-dihydro-2-oxo-6-quinolyloxy)butyramide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₆N₂O₃
Batch Molecular Weight: 342.44
Physical Appearance: Beige solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.15	7.65	8.18
Found	69.73	7.7	8.14

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

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Description:

Selective inhibitor of type III phosphodiesterase (PDE3). Displays moderate selectivity for PDE3A isozyme vs. PDE3B (IC₅₀ values are 0.027 and 0.050 μM for PDE3A and PDE3B respectively). Inhibits ADP-induced platelet aggregation (IC₅₀ = 16.8 μM); antithrombotic.

Physical and Chemical Properties:

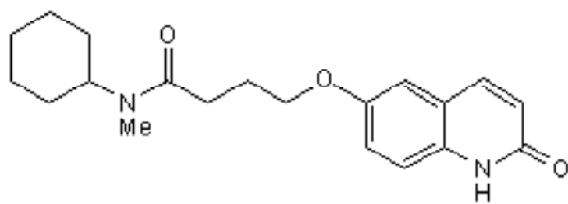
Batch Molecular Formula: C₂₀H₂₆N₂O₃

Batch Molecular Weight: 342.44

Physical Appearance: Beige solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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:

Sudo et al (2000) Potent effects of novel anti-platelet aggregatory cilostamide analogues on recombinant cyclic nucleotide phosphodiesterase isozyme activity. *Biochem.Pharmacol.* **59** 347. PMID: 10644042.

Christensen and Torphy (1994) Isozyme-selective phosphodiesterase inhibitors as antiasthmatic agents. *Annu.Rep.Med.Chem.* **29** 185.

Hidaki et al (1979) Selective inhibitor of platelet cyclic adenosine monophosphate phosphodiesterase, cilostamide, inhibits platelet aggregation. *J.Pharmacol.Exp.Ther.* **211** 26. PMID: 226672.

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