1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{26}N_2O_3$
Batch Molecular Weight: 342.44
Physical Appearance: Beige solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at RT

2. ANALYTICAL DATA

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

<table>
<thead>
<tr>
<th>Element</th>
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<td>N</td>
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</tbody>
</table>

Certificate of Analysis

www.tocris.com

Print Date: Apr 26 th 2021

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

**Description:**
Selective inhibitor of type III phosphodiesterase (PDE3). Displays moderate selectivity for PDE3A isozyme vs. PDE3B (IC\(_{50}\) values are 0.027 and 0.050 \( \mu \)M for PDE3A and PDE3B respectively). Inhibits ADP-induced platelet aggregation (IC\(_{50}\) = 16.8 \( \mu \)M); antithrombotic.

**Physical and Chemical Properties:**
- Batch Molecular Formula: \( C_{20}H_{26}N_2O_3 \)
- Batch Molecular Weight: 342.44
- Physical Appearance: Beige solid

**Minimum Purity:** \( \geq 97\% \)

**Batch Molecular Structure:**

![Molecular Structure](image)

**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:**