Product Name: Cilostamide  
Catalog No.: 0915  
Batch No.: 2  
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:** $\text{C}_{20}\text{H}_{26}\text{N}_{2}\text{O}_{3}\cdot\frac{1}{4}\text{H}_{2}\text{O}$
- **Batch Molecular Weight:** 346.94
- **Physical Appearance:** White solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Store at RT

2. ANALYTICAL DATA

- **TLC:** $R_t = 0.28$ (Dichloromethane: Methanol [10:1])
- **Melting Point:** Between 187 - 191°C
- **$^1$H NMR:** Consistent with structure
- **Microanalysis:**
  
<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>69.24</td>
<td>69.23</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>7.69</td>
<td>7.62</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>8.07</td>
<td>8.01</td>
</tr>
</tbody>
</table>
Product Information

Product Name: Cilostamide
Catalog No.: 0915
Batch No.: 2

Product 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 (IC₅₀ values are 0.027 and 0.050 μM for PDE3A and PDE3B respectively). Inhibits ADP-induced platelet aggregation (IC₅₀ = 16.8 μM); antithrombotic. Also available as part of the Phosphodiesterase Inhibitor Tocriset™.

Physical and Chemical Properties:
Batch Molecular Formula: C₂₀H₂₉N₂O₅·½H₂O
Batch Molecular Weight: 346.94
Physical Appearance: White solid

Storage: Store at RT

Solubility & Usage Info:
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: