

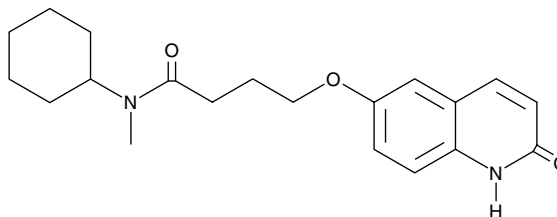
Product Information



Cilostamide

Item No. 14455

CAS Registry No.: 68550-75-4
Formal Name: N-cyclohexyl-4-[(1,2-dihydro-2-oxo-6-quinolinyl)oxy]-N-methyl-butanamide
Synonym: OPC 3689
MF: C₂₀H₂₆N₂O₃
FW: 342.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 234, 270, 350 nm



Laboratory Procedures

For long term storage, we suggest that cilostamide be stored as supplied at -20°C. It should be stable for at least two years.

Cilostamide is supplied as a crystalline solid. A stock solution may be made by dissolving the cilostamide in the solvent of choice. Cilostamide is soluble in organic solvents such as dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of cilostamide in DMF is approximately 0.25 mg/ml.

Cilostamide is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Cilostamide is a selective inhibitor of phosphodiesterase (PDE)3A and PDE3B with IC₅₀ values of 27 and 50 nM, respectively.¹ It is less selective for inhibition of PDE1, PDE2, PDE4, PDE5, and PDE7 (IC₅₀s = 12 to > 300 μM).¹ Cilostamide has been shown to inhibit thrombin-induced platelet aggregation with an IC₅₀ value of 1.1 μM.¹

Reference

1. Sudo, T., Tachibana, K., Toga, K., *et al.* Potent effects of novel anti-platelet aggregatory cilostamide analogues on recombinant cyclic nucleotide phosphodiesterase isozyme activity. *Biochem. Pharmacol.* **59**, 347-56 (2000).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/14455

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

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