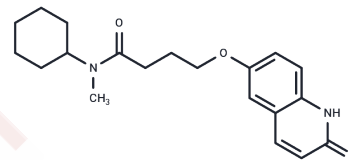


Cilostamide

Chemical Properties

CAS No. :	68550-75-4
Formula:	C ₂₀ H ₂₆ N ₂ O ₃
Molecular Weight:	342.43
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cilostamide (OPC3689) is a selective phosphodiesterase (PDE)3A and PDE3B inhibitor (IC ₅₀ values of 27 and 50 nM, respectively)
Targets(IC ₅₀)	PDE

Solubility Information

Solubility	DMSO: 31 mg/mL (90.53 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.92 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9203 mL	14.6015 mL	29.203 mL
5 mM	0.5841 mL	2.9203 mL	5.8406 mL
10 mM	0.292 mL	1.4602 mL	2.9203 mL
50 mM	0.0584 mL	0.292 mL	0.5841 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Cilostamide affects in a concentration and exposure time-dependent manner the viability and the kinetics of in vitro maturation of caprine and bovine oocytes.[J]. Research in veterinary science, 2018.

Xu K, Li Z, Mao L, et al.AlphaFold2-guided engineering of split-GFP technology enables labeling of endogenous tubulins across species while preserving function.PLoS biology.2024, 22(8): e3002615.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481