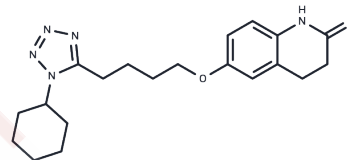


## Cilostazol

## Chemical Properties

CAS No. :	73963-72-1
Formula:	C <sub>20</sub> H <sub>27</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	369.46
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	Cilostazol (OPC 21) is a Phosphodiesterase 3 Inhibitor. The mechanism of action of cilostazol is as a Phosphodiesterase 3 Inhibitor.
Targets(IC50)	Autophagy,PDE
In vivo	Cilostazol induces relaxation of vascular smooth muscle and causes vasodilation. It inhibits the expression of monocyte chemotactic protein-1 (MCP-1) induced by cytokines. Additionally, Cilostazol reduces plasma triglycerides and increases high-density lipoprotein (HDL) levels. The vasodilatory and antithrombotic effects of Cilostazol are primarily due to the inhibition of phosphodiesterase 3 (PDE3) and the subsequent elevation of intracellular cyclic adenosine monophosphate (cAMP) levels. It also inhibits platelet aggregation and adenosine uptake.

## Solubility Information

Solubility	DMSO: 15 mg/mL (40.6 mM),Sonication is recommended. Ethanol: 3.7 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (4.06 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

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	1mg	5mg	10mg
1 mM	2.7067 mL	13.5333 mL	27.0665 mL
5 mM	0.5413 mL	2.7067 mL	5.4133 mL
10 mM	0.2707 mL	1.3533 mL	2.7067 mL
50 mM	0.0541 mL	0.2707 mL	0.5413 mL

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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

- Cone J, et al. J Cardiovasc Pharmacol, 1999, 34(4), 497-504.
- Liu Y, et al. Cardiovasc Drug Rev, 2001, 19(4), 369-386.
- Sun B, et al. J Cardiovasc Pharmacol, 2002, 40(4), 577-585.
- Schrör K. et al. Diabetes Obes Metab, 2002, 4 Suppl 2, S14- S19.

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