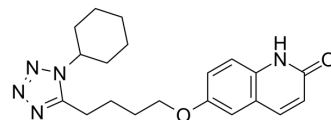


3,4-Dehydro Cilostazol

Cat. No.:	HY-135910		
CAS No.:	73963-62-9		
Molecular Formula:	C ₂₀ H ₂₅ N ₅ O ₂		
Molecular Weight:	367.44		
Target:	Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (13.61 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.7215 mL	13.6077 mL	27.2153 mL
	5 mM	0.5443 mL	2.7215 mL	5.4431 mL
	10 mM	0.2722 mL	1.3608 mL	2.7215 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

3,4-Dehydro Cilostazol (OPC-13015) is an active metabolite of Cilostazol (CLZ; HY-17464). 3,4-Dehydro Cilostazol is used for pharmacokinetic study^[1].

In Vivo

3,4-Dehydro Cilostazol (OPC-13015; Oral; 1 mg/kg GLZ and 10 mg/kg CLZ) has a T_{1/2} of 3.94 hours, a C_{max} of 1.39 μM and an AUC₀₋₂₄ of 4.69 μg•h/ml. The plasma concentration time profiles of GLZ, CLZ & its active metabolite DCLZ are traceable up to 24 h, 12 h and 12 h respectively by oral administration at 1 mg/kg dose of GLZ and 10 mg/kg CLZ^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats weighing 200 g ^[1]
Dosage:	1 mg/kg Glipizide (GLZ) and 10 mg/kg Cilostazol (CLZ) (Pharmacokinetic Analysis)
Administration:	Oral
Result:	Had a T _{1/2} of 3.94 hours, a C _{max} of 1.39 μM and an AUC ₀₋₂₄ of 4.69 μg•h/ml.

REFERENCES

[1]. T R S Satheeshmanikandan, et al. Liquid Chromatography - Tandem Mass Spectrometry for the Simultaneous Quantitation of Glipizide, Cilostazol and Its Active Metabolite 3, 4-dehydro-cilostazol in Rat Plasma: Application for a Pharmacokinetic Study. *Arzneimittelforschung*. 2012 Sep;62(9):425-32.

Caution: Product has not been fully validated for medical applications. For research use only.

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