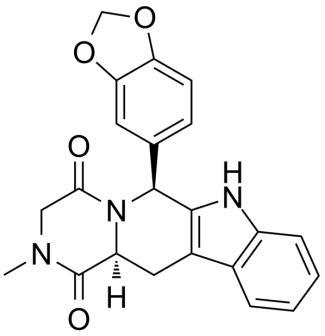
ent-Tadalafil

Cat. No.:	HY-90009C
CAS No.:	629652-72-8
Molecular Formula:	$C_{22}H_{19}N_3O_4$
Molecular Weight:	389.4
Target:	Phosphodiesterase (PDE)
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 : 250 mg/mL (642.01 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5681 mL	12.8403 mL	25.6805 mL
	5 mM	0.5136 mL	2.5681 mL	5.1361 mL
	10 mM	0.2568 mL	1.2840 mL	2.5681 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (5.34 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.34 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ent-Tadalafil (ent-IC-351), compound (6S,12aS), is a inactive cis-enantiomer of compound (6R,12aS). compound (6R,12aS) is a potent PDE5 inhibitor with an IC_{50} of 0.090 μM, while ent-Tadalafil is inactive at concentrations up to 10 μM[1].

IC_{50} & Target

PDE5
10 μM (IC_{50})

REFERENCES

[1]. Daugan A, et al. The discovery of tadalafil: a novel and highly selective PDE5 inhibitor. 2: 2,3,6,7,12,12a-hexahydropyrazino[1',2':1,6]pyrido[3,4-b]indole-1,4-dione analogues.J Med Chem. 2003 Oct 9;46(21):4533-42.

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