

cis-Tadalafil

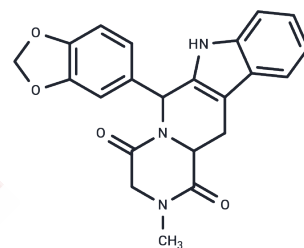
Chemical Properties

CAS No. : 171596-27-3

Formula: C₂₂H₁₉N₃O₄

Molecular Weight: 389.4

Storage: Store at low temperature, Keep away from direct sunlight
 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	cis-Tadalafil (cis-IC-351) is a potent PDE5 inhibitor with an IC ₅₀ value of 0.09 μM that can be used to study arterial hypertension.
Targets(IC ₅₀)	PDE

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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	1.284 mL	2.5681 mL
50 mM	0.0514 mL	0.2568 mL	0.5136 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

- 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.
- Shao R, et al. Pharmacokinetic and Bioequivalence Evaluation of 2 Tadalafil Tablets in Healthy Male Chinese Subjects Under Fasting and Fed Conditions. Clin Pharmacol Drug Dev. 2022 Feb;11(2):165-172.
- Ahmed NS. Tadalafil: 15 years' journey in male erectile dysfunction and beyond. Drug Dev Res. 2018 Dec 13.
- Bhattachar R, Tomar V, Yadav SS, Dhakad DS. Comparison of safety and efficacy of silodosin, solifenacin, tadalafil and their combinations in the treatment of double-J stent- related lower urinary system symptoms: A prospective randomized trial. Turk J Urol. 2018 May;44(3):228-238. doi: 10.5152/tud.2018.50328. Epub 2018 Mar 6. PubMed PMID: 29733797; PubMed Central PMCID: PMC5937643.

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