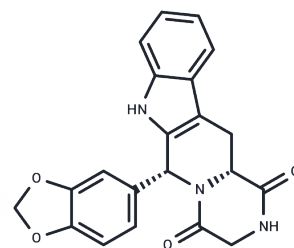


Nortadalafil

Chemical Properties

CAS No. :	171596-36-4
Formula:	C ₂₁ H ₁₇ N ₃ O ₄
Molecular Weight:	375.38
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	Nortadalafil (Demethyl Tadalafil) is demethyl Tadalafil, which is a PDE5 inhibitor, treating erectile dysfunction (ED) ; and under the name Adcirca for the treatment of pulmonary arterial hypertension.
Targets(IC50)	PDE

Solubility Information

Solubility	DMSO: 65 mg/mL (173.16 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: 2 mg/mL (5.33 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	2.664 mL	13.3198 mL	26.6397 mL
5 mM	0.5328 mL	2.664 mL	5.3279 mL
10 mM	0.2664 mL	1.332 mL	2.664 mL
50 mM	0.0533 mL	0.2664 mL	0.5328 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

Takahiro R , Nakamura S , Kohno H , et al. Contribution of CYP3A Isoforms to Dealkylation of PDE5 Inhibitors: A Comparison between Sildenafil N-Demethylation and Tadalafil Demethylation[J]. Biological & Pharmaceutical Bulletin, 2015, 38(1):58-65.

Daugan A . 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]. J. Med. Chem. 2003, 46.

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