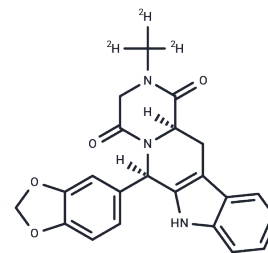


Tadalafil-D3

Chemical Properties

CAS No. :	960226-55-5
Formula:	C ₂₂ H ₁₆ D ₃ N ₃ O ₄
Molecular Weight:	392.42
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	Tadalafil-D3 is a deuterated compound of Tadalafil. Tadalafil (T1398) has a CAS number of 171596-29-5. Tadalafil (T1398) is a carboline-based compound with vasodilatory activity. Tadalafil (T1398) selectively inhibits the cyclic guanosine monophosphate (cGMP)-specific type 5 phosphodiesterase- (PDE-5)-mediated degradation of cGMP, which is found in the smooth muscle of the corpus cavernosa and corpus spongiosum of the penis. Inhibition of cGMP degradation by tadalafil results in prolonged muscle relaxation, vasodilation, and blood engorgement of the corpus cavernosa, and, so, prolonged penile erection.
Targets(IC50)	PDE

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5483 mL	12.7415 mL	25.4829 mL
5 mM	0.5097 mL	2.5483 mL	5.0966 mL
10 mM	0.2548 mL	1.2741 mL	2.5483 mL
50 mM	0.051 mL	0.2548 mL	0.5097 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

- Blount MA, et al. Mol Pharmacol, 2004, 66(1), 144-152.

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