

## Tadalafil-13C-D3

### Chemical Properties

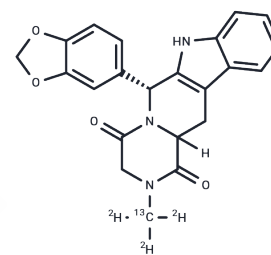
CAS No. :

Formula: 13CC21D3H16N3O4

Molecular Weight: 393.42

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-13C-D3 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.
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5418 mL	12.7091 mL	25.4181 mL
5 mM	0.5084 mL	2.5418 mL	5.0836 mL
10 mM	0.2542 mL	1.2709 mL	2.5418 mL
50 mM	0.0508 mL	0.2542 mL	0.5084 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.

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