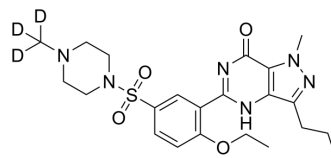


Sildenafil-d₃

Cat. No.:	HY-15025S
CAS No.:	1126745-90-1
Molecular Formula:	C ₂₂ H ₂₇ D ₃ N ₆ O ₄ S
Molecular Weight:	477.59
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (52.35 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.0938 mL	10.4692 mL	20.9385 mL
5 mM	0.4188 mL	2.0938 mL	4.1877 mL
10 mM	0.2094 mL	1.0469 mL	2.0938 mL

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

BIOLOGICAL ACTIVITY

Description

Sildenafil-d₃ is deuterium labeled Sildenafil-d₃. Sildenafil (UK-92480) is a potent phosphodiesterase type 5 (PDE5) inhibitor with an IC₅₀ of 5.22 nM.

IC₅₀ & Target

PDE5

REFERENCES

- [1]. Wang Z, et al. The Selectivity and Potency of the New PDE5 Inhibitor TPN729MA. J Sex Med. 2013 Nov;10(11):2790-7
- [2]. Li BB, et al. Sildenafil potentiates the proliferative effect of porcine pulmonary artery smooth muscle cells induced by serotonin in vitro. Chin Med J (Engl). 2011 Sep;124(17):2733-40.
- [3]. Moretti R, et al. Sildenafil, a cyclic GMP phosphodiesterase inhibitor, induces microglial modulation after focal ischemia in the neonatal mouse brain. J Neuroinflammation. 2016 Apr 28;13(1):95.

Caution: Product has not been fully validated for medical applications. For research use only.

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