Fenoverine-d_8

Cat. No.: HY-107349S

Molecular Formula: $C_{26}H_{17}D_8N_3O_3S$

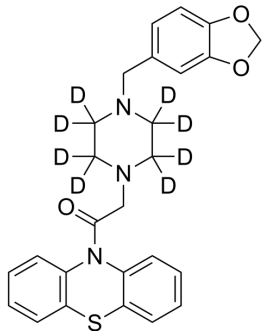
Molecular Weight: 467.61

Target: Calcium Channel

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (213.85 mM; Need ultrasonic)

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	2.1385 mL	10.6927 mL	21.3853 mL
5 mM	0.4277 mL	2.1385 mL	4.2771 mL
10 mM	0.2139 mL	1.0693 mL	2.1385 mL

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

BIOLOGICAL ACTIVITY

Description

Fenoverine-d_8 is the deuterium labeled Fenoverine[1]. Fenoverine (Spasmopriv) is an antispasmodic agent and inhibits calcium channel currents[2]. Fenoverine induces rhabdomyolysis[3].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. J Mironneau, et al. Fenoverine inhibition of calcium channel currents in single smooth muscle cells from rat portal vein and myometrium. Br J Pharmacol. 1991 Sep;104(1):65-70.

[3]. Chung-Wen Chen, et al. Rhabdomyolysis induced by fenoverine: a case report and literature review. Acta Neurol Taiwan. 2005 Sep14(3):143-6.

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