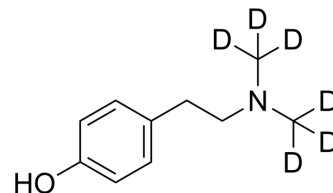


Hordenine-d₆

Cat. No.:	HY-N0113S
CAS No.:	1346598-66-0
Molecular Formula:	C ₁₀ H ₉ D ₆ NO
Molecular Weight:	171.27
Target:	Bacterial; Antibiotic; Isotope-Labeled Compounds
Pathway:	Anti-infection; Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMF : ≥ 25 mg/mL (145.97 mM)
 DMF : ≥ 25 mg/mL (145.97 mM)
 DMSO : ≥ 20 mg/mL (116.77 mM)
 DMSO : ≥ 20 mg/mL (116.77 mM)
 Ethanol : ≥ 5 mg/mL (29.19 mM)
 Ethanol : ≥ 5 mg/mL (29.19 mM)
 DMF:PBS(pH 7.2)(1:1) : ≥ 0.5 mg/mL (2.92 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		5.8387 mL	29.1937 mL	58.3873 mL
	5 mM		1.1677 mL	5.8387 mL	11.6775 mL
	10 mM		0.5839 mL	2.9194 mL	5.8387 mL

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

BIOLOGICAL ACTIVITY

Description

Hordenine-d₆ (Ordenina-d₆) is the deuterium labeled Hordenine. Hordenine, an alkaloid found in plants, inhibits melanogenesis by suppression of cyclic adenosine monophosphate (cAMP) production^[1].

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;53(2):211-216.

[2]. Kim SC, et al. Hordenine, a single compound produced during barley germination, inhibits melanogenesis in human melanocytes. *Food Chem.* 2013 Nov 1;141(1):174-81.

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

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