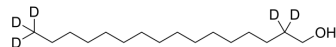


1-Hexadecanol-d₅

Cat. No.:	HY-B1465S2		
CAS No.:	1219799-18-4		
Molecular Formula:	C ₁₆ H ₂₉ D ₅ O		
Molecular Weight:	247.47		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
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 : 50 mg/mL (202.04 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.0409 mL	20.2045 mL	40.4089 mL
		5 mM	0.8082 mL	4.0409 mL	8.0818 mL
10 mM		0.4041 mL	2.0204 mL	4.0409 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (5.05 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	1-Hexadecanol-d ₅ is the deuterium labeled 1-Hexadecanol[1]. 1-Hexadecanol is a fatty alcohol, a lipophilic substrate[2].
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.

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

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