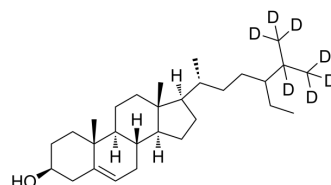


β -Sitosterol-d₇ (Mixture of Diastereomers)

Cat. No.:	HY-132382S		
CAS No.:	2260669-28-9		
Molecular Formula:	C ₂₉ H ₄₃ D ₇ O		
Molecular Weight:	421.75		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

THF : 50 mg/mL (118.55 mM; Need ultrasonic)
Ethanol : 16.67 mg/mL (39.53 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.3711 mL	11.8554 mL	23.7107 mL
	5 mM	0.4742 mL	2.3711 mL	4.7421 mL
	10 mM	0.2371 mL	1.1855 mL	2.3711 mL

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

In Vivo

1. Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: \geq 1 mg/mL (2.37 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

β -Sitosterol-d₇ (Mixture of Diastereomers) is the deuterium labeled β -Sitosterol (mixture of diastereomers)[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

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

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