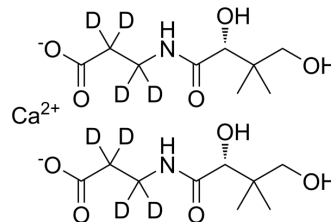


Vitamin B5-d₄ calcium

Cat. No.:	HY-144243S
Molecular Formula:	C ₁₈ H ₂₄ D ₈ CaN ₂ O ₁₀
Molecular Weight:	484.58
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro H₂O : 44 mg/mL (90.80 mM; Need ultrasonic and warming)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.0636 mL	10.3182 mL	20.6364 mL
	5 mM	0.4127 mL	2.0636 mL	4.1273 mL
	10 mM	0.2064 mL	1.0318 mL	2.0636 mL

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

BIOLOGICAL ACTIVITY

Description Vitamin B5-d₄ (calcium) is the deuterium labeled Vitamin B5 calcium[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):211-223.

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

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