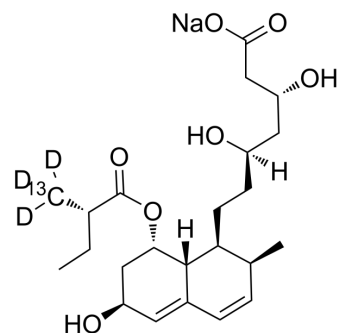


Pravastatin-¹³C,₃D₃ sodium

Cat. No.:	HY-B0165AS
Molecular Formula:	C ₂₂ ¹³ CH ₃₂ D ₃ NaO ₇
Molecular Weight:	450.52
Target:	Autophagy; HMG-CoA Reductase (HMGCR); Ferroptosis; Isotope-Labeled Compounds
Pathway:	Autophagy; Metabolic Enzyme/Protease; Apoptosis; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pravastatin- ¹³ C, ₃ D ₃ (sodium) is the ¹³ C- and deuterium labeled Pravastatin (sodium). Pravastatin sodium (CS-514 sodium) is an HMG-CoA reductase inhibitor against sterol synthesis with IC50 of 5.6 μM.
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 ^[25] . 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.
- [2]. McTavish D, et al. Pravastatin. A review of its pharmacological properties and therapeutic potential in hypercholesterolaemia. *Drugs.* 1991 Jul;42(1):65-89.

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

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