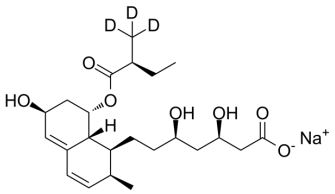
Pravastatin-d3 sodium salt

Cat. No.:	HY-B0165CS
CAS No.:	1329836-90-9
Molecular Formula:	$C_{23}H_{32}D_3NaO_7$
Molecular Weight:	449.53
Target:	HMG-CoA Reductase (HMGCR); Autophagy
Pathway:	Metabolic Enzyme/Protease; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pravastatin-d3 (CS-514-d3) sodium salt is the deuterium labeled Pravastatin sodium salt. Pravastatin (CS-514) sodium salt is a competitive HMG-CoA reductase inhibitor against sterol synthesis with IC_{50} of 5.6 μM[1][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]. McTavish D, et al. Pravastatin. A review of its pharmacological properties and therapeutic potential in hypercholesterolaemia. Drugs. 1991 Jul;42(1):65-89.

[2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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