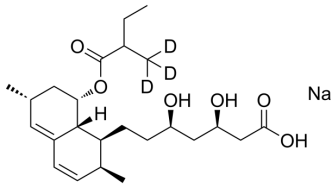
Lovastatin-d_3 hydroxy acid sodium

Cat. No.:	HY-123672S
CAS No.:	1217528-38-5
Molecular Formula:	$C_{24}H_{35}D_3NaO_6$
Molecular Weight:	447.56
Target:	HMG-CoA Reductase (HMGCR); Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Lovastatin-d_3 hydroxy acid (sodium) is the deuterium labeled Lovastatin hydroxy acid sodium. Lovastatin hydroxy acid sodium (Mevinolinic acid sodium) is a highly potent inhibitor of HMG-CoA reductase with a Ki of 0.6 nM[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):211-216.

[2]. A W Alberts, eta al. Mevinolin: A Highly Potent Competitive Inhibitor of Hydroxymethylglutaryl-Coenzyme A Reductase and a Cholesterol-Lowering Agent. Proc Natl Acad Sci U S A. 1980 Jul;77(7):3957-61.

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