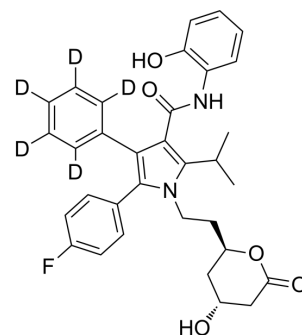


Ortho-hydroxy atorvastatin lactone-d₅

Cat. No.:	HY-136346S
CAS No.:	265989-50-2
Molecular Formula:	C ₃₃ H ₂₈ D ₅ FN ₂ O ₅
Molecular Weight:	561.65
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ortho-hydroxy atorvastatin lactone-d ₅ is deuterium labeled 2-Hydroxy atorvastatin lactone. 2-Hydroxy atorvastatin lactone is a metabolite of Atorvastatin. Atorvastatin is an orally active HMG-CoA reductase inhibitor, has the ability to effectively decrease blood lipids[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Guo CX, et al. Effects of Ginkgo biloba extracts on pharmacokinetics and efficacy of atorvastatin based on plasma indices. *Xenobiotica.* 2012;42(8):784-790.
- [3]. Turner NA, et al. Comparison of the efficacies of five different statins on inhibition of human saphenous vein smooth muscle cell proliferation and invasion. *J Cardiovasc Pharmacol.* 2007 Oct;50(4):458-61.

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

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