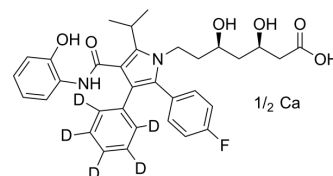


Ortho-hydroxy atorvastatin-d5 calcium

Cat. No.:	HY-144577S
CAS No.:	265989-47-7
Molecular Formula:	C ₃₃ H ₃₀ D ₅ FN ₂ O ₆ ·1/2Ca
Molecular Weight:	599.71
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Ortho-hydroxy atorvastatin-d ₅ calcium is the deuterium labeled Ortho-hydroxy atorvastatin (HY-144577) ^[1] . Ortho-hydroxy atorvastatin is the metabolic of Atorvastatin (HY-B0589) ^[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 Feb;53(2):211-216.

[2]. Zhou Y, et al. Development and validation of a liquid chromatography-tandem mass spectrometry method for simultaneous determination of amlodipine, atorvastatin and its metabolites ortho-hydroxy atorvastatin and para-hydroxy atorvastatin in human plasma and its application in a bioequivalence study. *J Pharm Biomed Anal*. 2013 Sep;83:101-7.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA