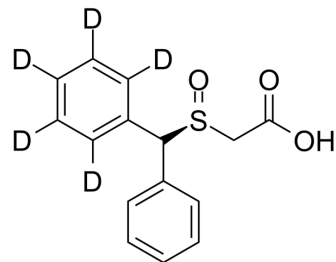


(S)-(+)-Modafinac acid-d5

Cat. No.:	HY-78327AS
Molecular Formula:	C ₁₅ H ₉ D ₅ O ₃ S
Molecular Weight:	279.37
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(S)-(+)-Modafinac acid-d5 is deuterium labeled (S)-(+)-Modafinac acid.
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]. Ke-hua Wu, et al. Population pharmacokinetics of modafinil acid and estimation of the metabolic conversion of modafinil into modafinil acid in 5 major ethnic groups of China. *Acta Pharmacologica Sinica* (2012) 33: 1401–1408.

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

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