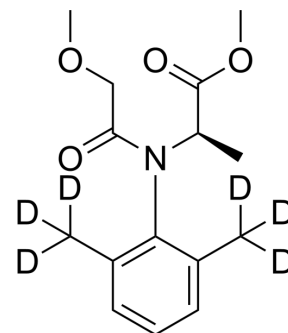


Metalaxyl-M-d6

Cat. No.:	HY-B0843AS
CAS No.:	1398112-32-7
Molecular Formula:	C ₁₅ H ₁₅ D ₆ NO ₄
Molecular Weight:	285.37
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Metalaxyl-M-d6 is the deuterium labeled Metalaxyl-M[1]. Metalaxyl-M ((R)-Metalaxyl) is the active (R)-enantiomer of Metalaxyl. Metalaxyl-M is a broad-spectrum fungicide that inhibits protein and ribosomal RNA synthesis in fungi. Metalaxyl is used for research of plant diseases caused by pathogens of the Oomycota division[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]. Yinjun Zhang, et al. Bio-preparation of (R)-DMPM using whole cells of *Pseudochrobactrum asaccharolyticum* WZZ003 and its application on kilogram-scale synthesis of fungicide (R)-metalaxyl. *Biotechnol Prog*

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

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