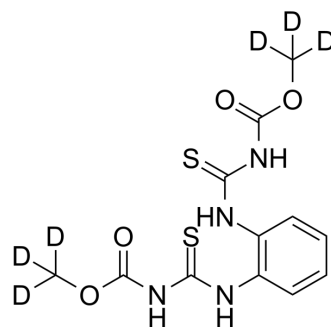


Thiophanate-methyl-d₆

Cat. No.:	HY-B0842S
CAS No.:	1398065-77-4
Molecular Formula:	C ₁₂ H ₈ D ₆ N ₄ O ₄ S ₂
Molecular Weight:	348.43
Target:	Fungal
Pathway:	Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Thiophanate-methyl-d ₆ is the deuterium labeled Thiophanate-methyl. Thiophanate-Methyl is a systematic fungicide[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]. Sharma G, et al. Guar gum-crosslinked-Soya lecithin nanohydrogel sheets as effective adsorbent for the removal of thiophanate methyl fungicide. *Int J Biol Macromol.* 2018 Jul 15;114:295-305.

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

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