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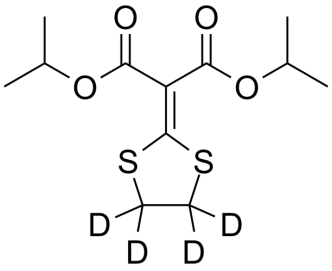
Isoprothiolane-d4

Cat. No.:	HY-B1858S
CAS No.:	1715020-82-8
Molecular Formula:	$C_{12}H_{14}D_4O_4S_2$
Molecular Weight:	294.42
Target:	Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Isoprothiolane-d4 is the deuterium labeled Isoprothiolane. Isoprothiolane is a systemic fungicide. Isoprothiolane is a rice blast controlling agent against the fungal disease of rice planty Pyvioutavia oryzae Cav[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]. Matazaemon Uchida, et al. Effect of a Rice Blast Controlling Agent, Isoprothiolane, on Nilaparvata Lugens Stal with Different Levels of Susceptibility to Diazinon. Pest Resistance to Pesticides pp 421-428

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