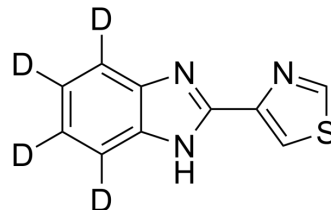


Thiabendazole-d₄

Cat. No.:	HY-B0263S	
CAS No.:	1190007-20-5	
Molecular Formula:	C ₁₀ H ₃ D ₄ N ₃ S	
Molecular Weight:	205.27	
Target:	Mitochondrial Metabolism; Parasite	
Pathway:	Metabolic Enzyme/Protease; Anti-infection	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (243.58 mM; Need ultrasonic)
 H₂O : 0.1 mg/mL (0.49 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.8716 mL	24.3582 mL	48.7163 mL
	5 mM	0.9743 mL	4.8716 mL	9.7433 mL
	10 mM	0.4872 mL	2.4358 mL	4.8716 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Thiabendazole-d₄ is a deuterated form of Thiabendazole, which is an antiseptic, antifungal and antiparasitic agent[1].

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^[75].

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):211-223.

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

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