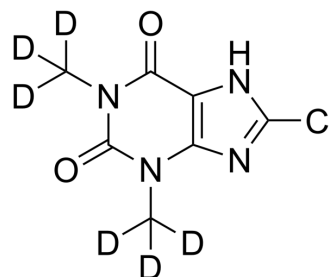


8-Chlorotheophylline-d₆

Cat. No.:	HY-W014203S		
CAS No.:	1346598-95-5		
Molecular Formula:	C ₇ HD ₆ ClN ₄ O ₂		
Molecular Weight:	220.65		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (113.30 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.5321 mL	22.6603 mL	45.3206 mL
	5 mM	0.9064 mL	4.5321 mL	9.0641 mL
	10 mM	0.4532 mL	2.2660 mL	4.5321 mL

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

BIOLOGICAL ACTIVITY

Description

8-Chlorotheophylline-d₆ (8-Chlorotheophylline-d₆) is the deuterium-labeled 8-Chlorotheophylline (HY-W014203)^[1]. 8-Chlorotheophylline is an organic compound.

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.

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

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