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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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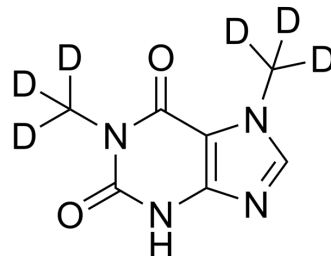
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Paraxanthine-d₆

Cat. No.:	HY-W016498S
CAS No.:	117490-41-2
Molecular Formula:	C ₇ H ₂ D ₆ N ₄ O ₂
Molecular Weight:	186.2
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 10 mg/mL (53.71 mM)
 DMF : ≥ 10 mg/mL (53.71 mM)
 DMF : ≥ 10 mg/mL (53.71 mM)
 Ethanol : ≥ 1 mg/mL (5.37 mM)
 PBS (pH 7.2) : ≥ 1 mg/mL (5.37 mM)
 Ethanol : ≥ 1 mg/mL (5.37 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		5.3706 mL	26.8528 mL	53.7057 mL
	5 mM		1.0741 mL	5.3706 mL	10.7411 mL
	10 mM		0.5371 mL	2.6853 mL	5.3706 mL

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

BIOLOGICAL ACTIVITY

Description

Paraxanthine-d₆ is the deuterium labeled Paraxanthine. Paraxanthine, a caffeine metabolite, provides protection against Dopaminergic cell death via stimulation of Ryanodine Receptor Channels.

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]. Guerreiro S, et al. Paraxanthine, the primary metabolite of caffeine, provides protection against dopaminergic cell death via stimulation of ryanodine receptor channels. Mol Pharmacol. 2008 Oct;74(4):980-9.

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

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