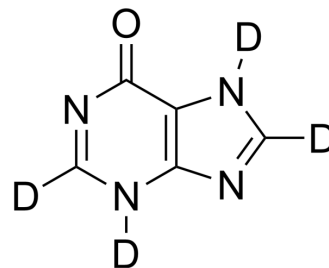


Hypoxanthine-d₄

Cat. No.:	HY-N0091S5
CAS No.:	2483831-32-7
Molecular Formula:	C ₅ D ₄ N ₄ O
Molecular Weight:	140.14
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (71.36 mM; Need ultrasonic and warming)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	7.1357 mL	35.6786 mL	71.3572 mL
5 mM	1.4271 mL	7.1357 mL	14.2714 mL
10 mM	0.7136 mL	3.5679 mL	7.1357 mL

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

BIOLOGICAL ACTIVITY

Description

Hypoxanthine-d₄ is the deuterium labeled Hypoxanthine[1]. Hypoxanthine, a purine derivative, is a potential free radical generator and could be used as an indicator of hypoxia[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 Feb;53(2):211-216.

[2]. Saugstad OD, et al. Hypoxanthine as an indicator of hypoxia: its role in health and disease through free radical production. *Pediatr Res*. 1988 Feb;23(2):143-50.

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

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