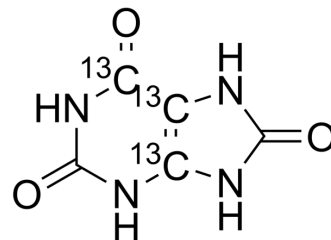


Uric acid-¹³C₃

Cat. No.:	HY-W770183
CAS No.:	2832998-22-6
Molecular Formula:	C ₂ ¹³ C ₃ H ₄ N ₄ O ₃
Molecular Weight:	171.09
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Uric acid- ¹³ C ₃ is ¹³ C-labeled Uric acid (HY-B2130). Uric acid is the end product of purine metabolism in the human body. Uric acid can scavenge reactive oxygen species (ROS), such as singlet oxygen and peroxyxynitrite, and inhibit lipid peroxidation.
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]. Wang Q, et al. Recent Progress on Uric Acid Detection: A Review. Crit Rev Anal Chem. 2020;50(4):359-375.
- [2]. Yasutake Y, et al. Uric acid ameliorates indomethacin-induced enteropathy in mice through its antioxidant activity. J Gastroenterol Hepatol. 2017 Nov;32(11):1839-1845.
- [3]. 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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