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Zuschläge

- Mindermengenzuschlag
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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

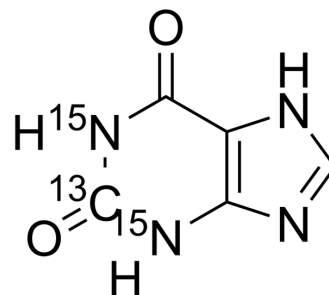
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Xanthine-¹³C,¹⁵N₂

Cat. No.:	HY-W017389S		
CAS No.:	1262670-81-4		
Molecular Formula:	C ₄ ¹³ CH ₄ N ₂ ¹⁵ N ₂ O ₂		
Molecular Weight:	155.09		
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



BIOLOGICAL ACTIVITY

Description	Xanthine- ¹³ C, ¹⁵ N ₂ is a ¹⁵ N-labeled and ¹³ C-labeled Xanthine (HY-W017389). Xanthine is a plant alkaloid with mild stimulant activity of the central nervous system. Xanthine also acts as an intermediate product on the pathway of purine degradation [1][2][3].
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):211-244.
- [2]. Pundir CS, et al. Biosensing methods for xanthine determination: a review. *Enzyme Microb Technol*. 2014;57:55-62.
- [3]. David A. Taylor, et al. Central Nervous System Stimulants.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA