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Zuschläge

- Mindermengenzuschlag
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- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

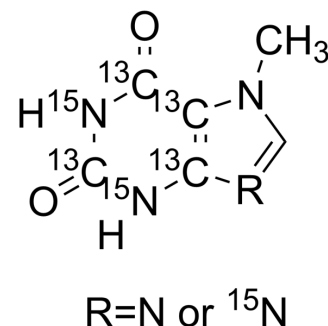
mail@szabo-scandic.com

www.szabo-scandic.com

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

7-Methylxanthine-2,4,5,6-¹³C₄, 1,3-¹⁵N₂ (with variable ¹⁵N labeling at N₉)

Cat. No.:	HY-W017163S
Molecular Formula:	C ₂ ¹³ C ₄ H ₆ N ¹⁵ N ₂ O ₂
Molecular Weight:	158.09
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	7-Methylxanthine-2,4,5,6- ¹³ C ₄ , 1,3- ¹⁵ N ₂ (with variable ¹⁵ N labeling at N ₉) is the ¹³ C and ¹⁵ N labeled 7-Methylxanthine[1]. 7-Methylxanthine, a methyl derivative of xanthine, is one of the purine components in urinary calculi[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]. Caubet MS, et al. Determination of urinary ¹³C-caffeine metabolites by liquid chromatography-mass spectrometry: the use of metabolic ratios to assess CYP1A2 activity. *J Pharm Biomed Anal*. 2004 Feb 4;34(2):379-89.

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