



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

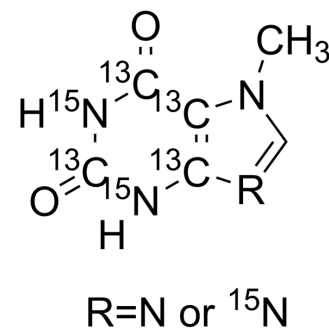
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## 7-Methylxanthine-2,4,5,6-<sup>13</sup>C<sub>4</sub>, 1,3-<sup>15</sup>N<sub>2</sub> (with variable <sup>15</sup>N labeling at N<sub>9</sub>)

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	7-Methylxanthine-2,4,5,6- <sup>13</sup> C <sub>4</sub> , 1,3- <sup>15</sup> N <sub>2</sub> (with variable <sup>15</sup> N labeling at N <sub>9</sub> ) is the <sup>13</sup> C and <sup>15</sup> N labeled 7-Methylxanthine[1]. 7-Methylxanthine, a methyl derivative of xanthine, is one of the purine components in urinary calculi[2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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 <sup>13</sup>C-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