



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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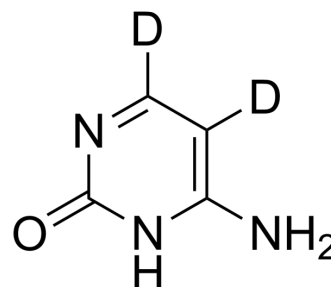
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## Cytosine-d2

Cat. No.:	HY-I0626S2
CAS No.:	106391-24-6
Molecular Formula:	C <sub>4</sub> H <sub>3</sub> D <sub>2</sub> N <sub>3</sub> O
Molecular Weight:	113.11
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Cytosine-d <sub>2</sub> is the deuterium labeled Cytosine[1]. Cytosine is one of the four main bases found in DNA and RNA. Cytosine modifications exhibit circadian oscillations that are involved in epigenetic diversity and aging[2][3].
<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]. Maxam AM, et, al. A new method for sequencing DNA. *Proc Natl Acad Sci U S A*. 1977 Feb;74(2):560-4.
- [3]. Oh G, et, al. Cytosine modifications exhibit circadian oscillations that are involved in epigenetic diversity and aging. *Nat Commun*. 2018 Feb 13;9(1):644.

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

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