



# 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

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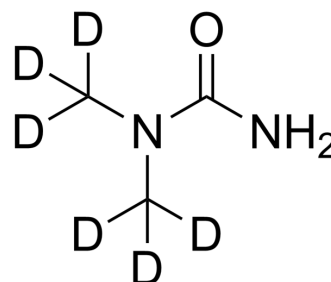
[www.szabo-scandic.com](http://www.szabo-scandic.com)

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## 1,1-Dimethylurea-d<sub>6</sub>

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Cat. No.:          | HY-W089832S                                                                   |
| CAS No.:           | 1219802-32-0                                                                  |
| Molecular Formula: | C <sub>3</sub> H <sub>2</sub> D <sub>6</sub> N <sub>2</sub> O                 |
| Molecular Weight:  | 94.15                                                                         |
| Target:            | Isotope-Labeled Compounds                                                     |
| Pathway:           | Others                                                                        |
| Storage:           | Store at room temperature 3 years<br>In solvent -80°C 2 years<br>-20°C 1 year |



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 5 mg/mL (53.11 mM; Need ultrasonic and warming)

|                              | Solvent<br>Concentration | Mass | 1 mg       | 5 mg       | 10 mg       |
|------------------------------|--------------------------|------|------------|------------|-------------|
|                              |                          |      |            |            |             |
| Preparing<br>Stock Solutions | 1 mM                     |      | 10.6213 mL | 53.1067 mL | 106.2135 mL |
|                              | 5 mM                     |      | 2.1243 mL  | 10.6213 mL | 21.2427 mL  |
|                              | 10 mM                    |      | 1.0621 mL  | 5.3107 mL  | 10.6213 mL  |

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

1,1-Dimethylurea-d<sub>6</sub> is the deuterium labeled 1,1-Dimethylurea[1].

#### 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<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.

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

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