



# 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

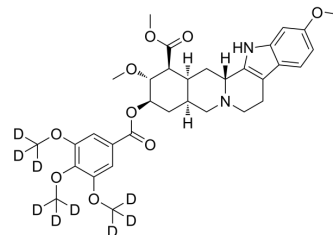
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## Reserpine-d<sub>9</sub>

|                    |                                                                                                                                                                                  |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-N0480S                                                                                                                                                                        |
| CAS No.:           | 84759-11-5                                                                                                                                                                       |
| Molecular Formula: | C <sub>33</sub> H <sub>31</sub> D <sub>9</sub> N <sub>2</sub> O <sub>9</sub>                                                                                                     |
| Molecular Weight:  | 617.73                                                                                                                                                                           |
| Target:            | Monoamine Transporter; Autophagy; Isotope-Labeled Compounds                                                                                                                      |
| Pathway:           | Membrane Transporter/Ion Channel; Autophagy; Others                                                                                                                              |
| Storage:           | <div> <div>Powder</div> <div>-20°C    3 years</div> <div>4°C    2 years</div> </div> <div> <div>In solvent</div> <div>-80°C    6 months</div> <div>-20°C    1 month</div> </div> |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 33.33 mg/mL (53.96 mM; Need ultrasonic)

|                           | Solvent<br>Concentration | Mass | 1 mg      | 5 mg      | 10 mg      |
|---------------------------|--------------------------|------|-----------|-----------|------------|
|                           |                          |      |           |           |            |
| Preparing Stock Solutions | 1 mM                     |      | 1.6188 mL | 8.0942 mL | 16.1883 mL |
|                           | 5 mM                     |      | 0.3238 mL | 1.6188 mL | 3.2377 mL  |
|                           | 10 mM                    |      | 0.1619 mL | 0.8094 mL | 1.6188 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

Reserpine-d<sub>9</sub> is the deuterium labeled Reserpine. Reserpine is an inhibitor of the vesicular monoamine transporter 2 (VMAT2).

#### 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;53(2):211-216.
- [2]. Antkiewicz-Michaluk L, et al. Withdrawal from repeated administration of a low dose of reserpine induced opposing adaptive changes in the noradrenaline and serotonin system function: a behavioral and neurochemical ex vivo and in vivo studies in the rat. *Prog Neuropsychopharmacol Biol Psychiatry*. 2015 Mar 3;57:146-54.

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[3]. Hong B, et al. Reserpine Inhibit the JB6 P+ Cell Transformation Through Epigenetic Reactivation of Nrf2-Mediated Anti-oxidative Stress Pathway. AAPS J. 2016 May;18(3):659-69.

[4]. Sreemantula S, et al. Reserpine methonitrate, a novel quaternary analogue of reserpine augments urinary excretion of VMA and 5-HIAA without affecting HVA in rats. BMC Pharmacol. 2004 Nov 16;4:30.

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**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](mailto:tech@MedChemExpress.com)

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