



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

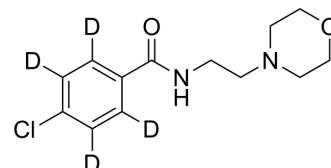
www.szabo-scandic.com

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



Moclobemide-d₄

Cat. No.:	HY-B0534S1
Molecular Formula:	C ₁₃ H ₁₃ D ₄ ClN ₂ O ₂
Molecular Weight:	272.76
Target:	Monoamine Oxidase
Pathway:	Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (366.62 mM; Need ultrasonic)
 DMSO : 100 mg/mL (366.62 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.6662 mL	18.3311 mL	36.6623 mL
	5 mM		0.7332 mL	3.6662 mL	7.3325 mL
	10 mM		0.3666 mL	1.8331 mL	3.6662 mL

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

BIOLOGICAL ACTIVITY

Description

Moclobemide-d₄ is deuterium labeled Moclobemide. Moclobemide (Ro111163) is a brain-penetrant and reversible monoamine oxidase (MAO-A) inhibitor with an IC₅₀ of 6.061 μM for hMAO-A[1]. Moclobemide up-regulates proliferation of hippocampal progenitor cells in chronically stressed mice.

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;53(2):211-216.
- [2]. Nafiz Öncü Can, et al. Synthesis of New Hydrazone Derivatives for MAO Enzymes Inhibitory Activity. *Molecules*. 2017 Aug 20;22(8):1381.

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