



# 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

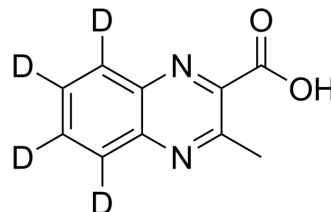
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## 3-Methyl-2-quinoxalinecarboxylic acid-d<sub>4</sub>

<b>Cat. No.:</b>	HY-W016099S	
<b>CAS No.:</b>	2244217-93-2	
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>4</sub> D <sub>4</sub> N <sub>2</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	192.21	
<b>Target:</b>	Isotope-Labeled Compounds	
<b>Pathway:</b>	Others	
<b>Storage:</b>	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



### BIOLOGICAL ACTIVITY

#### Description

3-Methyl-2-quinoxalinecarboxylic acid-d<sub>4</sub> is the deuterium labeled 3-Methyl-2-quinoxalinecarboxylic acid. 3-Methyl-2-quinoxalinecarboxylic acid (MQCA), an important N-oxide reductive metabolite of Quinocetone or Olaquinox, potently inhibits the growth of Chang liver cells through S phase arrest of the cell cycle<sup>[1]</sup>.

#### 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]. Keyu Zhang, et al. Cytotoxicity and Genotoxicity of 1,4-bisdesoxyquinocetone, 3-methylquinoxaline-2-carboxylic Acid (MQCA) in Human Hepatocytes. *Res Vet Sci*. 2012 Dec;93(3):1393-401.

**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