



# 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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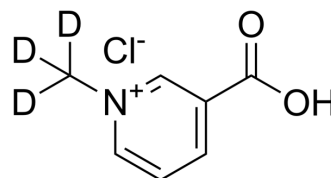
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## Trigonelline-d<sub>3</sub> chloride

<b>Cat. No.:</b>	HY-N0415S
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>5</sub> D <sub>3</sub> ClNO <sub>2</sub>
<b>Molecular Weight:</b>	176.62
<b>Target:</b>	Fungal; HSV; Bacterial; Isotope-Labeled Compounds
<b>Pathway:</b>	Anti-infection; Others
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 5 mg/mL (28.31 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.6619 mL	28.3094 mL	56.6187 mL
	5 mM	1.1324 mL	5.6619 mL	11.3237 mL
	10 mM	0.5662 mL	2.8309 mL	5.6619 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Trigonelline-d<sub>3</sub> (chloride) is the deuterium labeled Trigonelline chloride. Trigonelline chloride, an alkaloid with potential antidiabetic activity, is present in considerable amounts in coffee. Trigonelline chloride has anti-HSV-1, antibacterial, and antifungal activities.

#### 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]. Ilavenil S, et al. Trigonelline protects the cardiocyte from hydrogen peroxide induced apoptosis in H9c2 cells. *Asian Pac J Trop Med*. 2015 Apr;8(4):263-8.
- [3]. Joanna Folwarczna, et al. Effects of Trigonelline, an Alkaloid Present in Coffee, on Diabetes-Induced Disorders in the Rat Skeletal System. *Nutrients*. 2016 Mar; 8(3): 133.

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

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