



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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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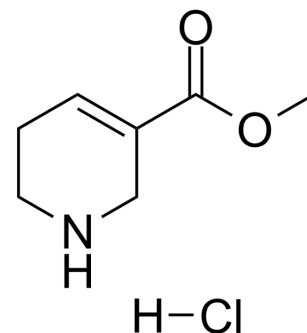
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## Guvacoline hydrochloride

<b>Cat. No.:</b>	HY-N5016
<b>CAS No.:</b>	6197-39-3
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>12</sub> ClNO <sub>2</sub>
<b>Molecular Weight:</b>	177.63
<b>Target:</b>	mAChR
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (562.97 mM; Need ultrasonic)  
DMSO : 100 mg/mL (562.97 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	5.6297 mL	28.1484 mL	56.2968 mL
	5 mM	1.1259 mL	5.6297 mL	11.2594 mL
	10 mM	0.5630 mL	2.8148 mL	5.6297 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (14.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (14.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (14.07 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Guvacoline hydrochloride, a pyridine alkaloid found in Areca triandra, can act as a weak full agonist of atrial and ileal muscarinic receptors<sup>[1][2]</sup>.

### REFERENCES

- [1]. Jiao Wu, et al. Tissue-specific and maturity-dependent distribution of pyridine alkaloids in Areca triandra. J Plant Res. 2019 Jul;132(4):531-540.

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[2]. M Wolf-Pflugmann, et al. Synthesis and muscarinic activity of a series of tertiary and quaternary N-substituted guvacine esters structurally related to arecoline and arecaidine propargyl ester. *Arzneimittelforschung*. 1989 May;39(5):539-44.

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

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