



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### 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

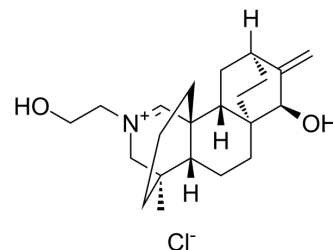
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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## Guanfu base H

<b>Cat. No.:</b>	HY-N5005
<b>CAS No.:</b>	4758-99-0
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>34</sub> ClNO <sub>2</sub>
<b>Molecular Weight:</b>	379.96
<b>Target:</b>	Parasite
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 8.33 mg/mL (21.92 mM); ultrasonic and warming and heat to 60°C					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.6319 mL	13.1593 mL	26.3186 mL
		<b>5 mM</b>		0.5264 mL	2.6319 mL	5.2637 mL
	<b>10 mM</b>		0.2632 mL	1.3159 mL	2.6319 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 0.83 mg/mL (2.18 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.83 mg/mL (2.18 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 0.83 mg/mL (2.18 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Guanfu base H (Atisinium chloride) is a diterpenoid alkaloid isolated from <i>Aconitum coreanum</i> and has antiplasmodial activity against the malarial <i>Plasmodium falciparum</i> strains TM4/8.2 (wild type) and K1CB1 with IC <sub>50</sub> values of 4 μM and 3.6 μM, respectively <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	<i>Plasmodium falciparum</i> <sup>[2]</sup>

### REFERENCES

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[1]. WU Qiong, et al. Simultaneous Determination of Guanfu Base A, Guanfu Base I and Guanfu Base H in Radix Aconitum coreanum(Lévl) Rapais by RP-HPLC. Progress in Pharmaceutical Sciences. 2011, 35(5), 230-233.

[2]. Wangchuk P, et al. Antiplasmodial activity of atisinium chloride from the Bhutanese medicinal plant, Aconitum orochryseum. J Ethnopharmacol. 2010 Aug 9;130(3):559-62.

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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