



# 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

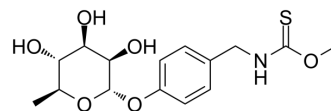
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## Niazinin

Cat. No.:	HY-N8471
CAS No.:	147821-57-6
Molecular Formula:	C <sub>15</sub> H <sub>21</sub> NO <sub>6</sub> S
Molecular Weight:	343.4
Target:	Parasite; SARS-CoV
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 50 mg/mL (145.60 mM)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.9121 mL	14.5603 mL	29.1206 mL
	5 mM	0.5824 mL	2.9121 mL	5.8241 mL
	10 mM	0.2912 mL	1.4560 mL	2.9121 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 (7.28 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (7.28 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Niazinin is a thiocarbamate glycoside with antileishmanial activities, with an IC<sub>50</sub> value of 5.25 μM. Niazinin also shows a binding affinity with the target protein 3CL protease. Niazinin has promising leishmanicidal, anti-inflammatory and anti-pyretic activity<sup>[1][2]</sup>.

#### In Vitro

Niazinin, is cytotoxic at substantially higher concentration (CC<sub>50</sub> of 31.6 μM) than its antileishmanial concentration (IC<sub>50</sub> of 5.25 μM)<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

---

[1]. Amandeep Kaur, et al. Antileishmanial compounds from *Moringa oleifera* Lam. *Z Naturforsch C J Biosci.* Mar-Apr 2014;69(3-4):110-6.

[2]. Shiv Rakesh Naik, et al. Structure-based virtual screening, molecular dynamics and binding affinity calculations of some potential phytocompounds against SARS-CoV-2. *J Biomol Struct Dyn.* 2021 Mar 8;1-18.

---

**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