SZABO SCANDIC

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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

www.szabo-scandic.com

linkedin.com/company/szaboscandic

α-Spinasterol

Cat. No.: HY-N6962

CAS No.: 481-18-5

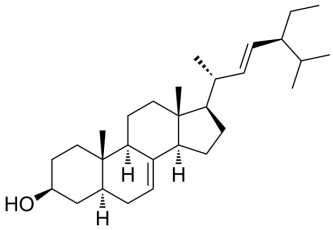
Molecular Formula: $C_{29}H_{48}O$

Molecular Weight: 412.69

Target: TRP Channel; COX; Bacterial

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling; Immunology/Inflammation; 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

DMF : 2 mg/mL (4.85 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4231 mL	12.1156 mL	24.2313 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

α-Spinasterol, isolated from Melandrium firmum, has antibacterial activity[1]. α-Spinasterol is a transient receptor potential vanilloid 1 (TRPV1) antagonist, has anti-inflammatory, antidepressant, antioxidant and antinociceptive effects. α-Spinasterol inhibits COX-1 andCOX-2 activities with IC_{50} values of 16.17 μM and 7.76 μM, respectively[2].

IC_{50} & Target			
	COX-1 16.17 μM (IC_{50})	COX-2 7.76 μM (IC_{50})	TRPV1

REFERENCES

[1]. Brusco I, et al. α-Spinasterol: a COX inhibitor and a transient receptor potential vanilloid 1 antagonist presents an antinociceptive effect in clinically relevant models of pain in mice. Br J Pharmacol. 2017 Dec;174(23):4247-4262.

[2]. Yang X, et al. A novel method for synthesis of α-spinasterol and its antibacterial activities in combination with ceftiofur. Fitoterapia. 2017 Jun;119:12-19.

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