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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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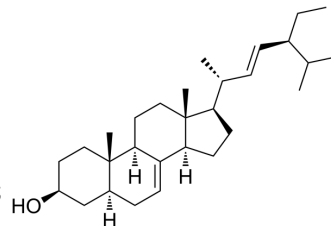
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α-Spinasterol

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)



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 and COX-2 activities with IC₅₀ values of 16.17 μM and 7.76 μM, respectively^[2].

IC ₅₀ & Target	COX-1	COX-2	TRPV1
	16.17 μM (IC ₅₀)	7.76 μM (IC ₅₀)	

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.

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