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Produktinformation



Forschungsprodukte & Biochemikalien



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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

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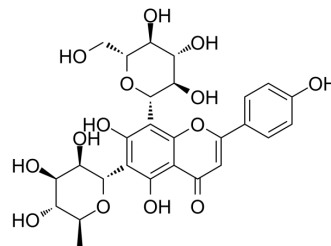
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Isoviolanthin

Cat. No.:	HY-N6896
CAS No.:	40788-84-9
Molecular Formula:	C ₂₇ H ₃₀ O ₁₄
Molecular Weight:	578.52
Target:	TGF-beta/Smad
Pathway:	Stem Cell/Wnt; TGF-beta/Smad
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (432.14 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	1.7285 mL	8.6427 mL	17.2855 mL
		5 mM	0.3457 mL	1.7285 mL	3.4571 mL
10 mM	0.1729 mL	0.8643 mL	1.7285 mL		
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.60 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.60 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Isoviolanthin, a flavonoid glycoside, could markedly inhibit TGF-β1-mediated migration and invasion by deactivating epithelial-mesenchymal transition (EMT) via the TGF-β/Smad and PI3K/Akt/mTOR pathways in HCC cells. Isoviolanthin exhibits no cytotoxic effects on normal liver LO2 cells ^[1] .
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REFERENCES

[1]. Xing S, et al. Isoviolanthin Extracted from *Dendrobium officinale* Reverses TGF-β1-Mediated Epithelial-Mesenchymal Transition in Hepatocellular Carcinoma Cells via Deactivating the TGF-β/Smad and PI3K/Akt/mTOR Signaling Pathways. *Int J Mol Sci.* 2018 May 23

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

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