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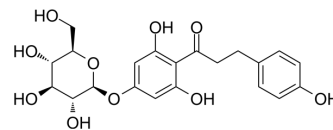
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Trilobatin

Cat. No.:	HY-N4100
CAS No.:	4192-90-9
Molecular Formula:	C ₂₁ H ₂₄ O ₁₀
Molecular Weight:	436.41
Target:	HIV; SGLT
Pathway:	Anti-infection; Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (229.14 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.2914 mL	11.4571 mL	22.9142 mL
		5 mM	0.4583 mL	2.2914 mL	4.5828 mL
		10 mM	0.2291 mL	1.1457 mL	2.2914 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 (4.77 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.77 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.08 mg/mL (4.77 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Trilobatin, a natural sweetener derived from <i>Lithocarpus polystachyus</i> Rehd ^[1] , Trilobatin is an HIV-1 entry inhibitor targeting the HIV-1 Gp41 envelope ^[2] . Neuroprotective effects ^[1] . Trilobatin is also a SGLT1/2 inhibitor that selectively induces the proliferation of human hepatoblastoma cells ^[3] .		
IC ₅₀ & Target	HIV-1	SGLT1	SGLT2
In Vitro	Trilobatin protects against oxidative injury in neuronal PC12 cells through regulating mitochondrial reactive oxygen species (mtROS) homeostasis in the first time, which is, at least partly, mediated through the AMPK/Nrf2/Sirt3 signaling pathway ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

CUSTOMER VALIDATION

- Phytomedicine. 2022 Jul;101:154113.

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REFERENCES

- [1]. Gao J, et al. Trilobatin Protects Against Oxidative Injury in Neuronal PC12 Cells Through Regulating Mitochondrial ROS Homeostasis Mediated by AMPK/Nrf2/Sirt3 Signaling Pathway. Front Mol Neurosci. 2018 Jul 30;11:267.
- [2]. Yin S, et al. Trilobatin as an HIV-1 entry inhibitor targeting the HIV-1 Gp41 envelope. FEBS Lett. 2018 Jul;592(13):2361-2377.

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

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