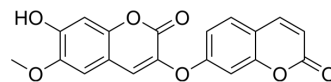


Daphnoretin

Cat. No.:	HY-N0699
CAS No.:	2034-69-7
Molecular Formula:	C ₁₉ H ₁₂ O ₇
Molecular Weight:	352.29
Target:	PKC; Influenza Virus
Pathway:	Epigenetics; TGF-beta/Smad; 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 : 25 mg/mL (70.96 mM); Need ultrasonic					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	2.8386 mL	14.1929 mL	28.3857 mL
			5 mM	0.5677 mL	2.8386 mL	5.6771 mL
10 mM	0.2839 mL	1.4193 mL	2.8386 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 (5.90 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.90 mM); Suspended solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	Daphnoretin (Daphnoretin), isolated from Wikstroemia indica, possesses antiviral activity ^[1] . Daphnoretin likes PMA, may direct activation of protein kinase C which in turn activated NADPH oxidase and elicited respiratory burst ^[2] .
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CUSTOMER VALIDATION

- J Orthop Surg Res. 2022 Nov 16;17(1):487.

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REFERENCES

- [1]. Ho WS, et al. Antiviral activity of daphnoretin isolated from Wikstroemia indica. Phytother Res. 2010 May;24(5):657-61.
- [2]. Wang JP, et al. Daphnoretin-induced respiratory burst in rat neutrophils is, probably, mainly through protein kinase C activation. Eur J Pharmacol. 1995 Feb 15;288(3):341-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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