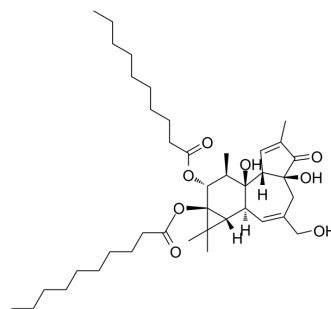


4 α -Phorbol 12,13-didecanoate

Cat. No.:	HY-116291	
CAS No.:	27536-56-7	
Molecular Formula:	C ₄₀ H ₆₄ O ₈	
Molecular Weight:	672.93	
Target:	TRP Channel	
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (148.60 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4860 mL	7.4302 mL	14.8604 mL
	5 mM	0.2972 mL	1.4860 mL	2.9721 mL
	10 mM	0.1486 mL	0.7430 mL	1.4860 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (3.72 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: 2.5 mg/mL (3.72 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

4 α -Phorbol 12,13-didecanoate (4 α PDD) is a TRPV4 agonist with antidipsogenic effects. 4 α -Phorbol 12,13-didecanoate promotes Ca²⁺ influx^[1].

REFERENCES

- [1]. Hiromi Tsushima, et al. Antidipsogenic effects of a TRPV4 agonist, 4alpha-phorbol 12,13-didecanoate, injected into the cerebroventricle. Am J Physiol Regul Integr Comp Physiol. 2006 Jun;290(6):R1736-41.
- [2]. Lori Birder, et al. Activation of urothelial transient receptor potential vanilloid 4 by 4alpha-phorbol 12,13-didecanoate contributes to altered bladder reflexes in the rat.

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

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