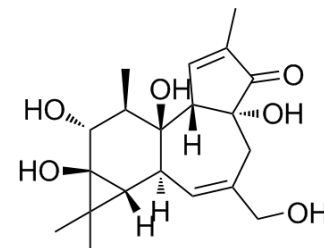


Phorbol

Cat. No.:	HY-N2147
CAS No.:	17673-25-5
Molecular Formula:	C ₂₀ H ₂₈ O ₆
Molecular Weight:	364.43
Target:	Others
Pathway:	Others
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 66.67 mg/mL (182.94 mM; Need ultrasonic)
 H₂O : ≥ 20 mg/mL (54.88 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		2.7440 mL	13.7201 mL	27.4401 mL
	5 mM		0.5488 mL	2.7440 mL	5.4880 mL
	10 mM		0.2744 mL	1.3720 mL	2.7440 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 5 mg/mL (13.72 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.67 mg/mL (4.58 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1.67 mg/mL (4.58 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 1.67 mg/mL (4.58 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Phorbol is a highly toxic diterpene, whose esters have important biological properties.

REFERENCES

[1]. Matsuzawa Y, et al. Activation of cytosolic phospholipase A2alpha by epidermal growth factor (EGF) and phorbol ester in HeLa cells: different effects of inhibitors for EGF receptor, protein kinase C, Src, and C-Raf. J Pharmacol Sci. 2009 Oct;111(2):182-92

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

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