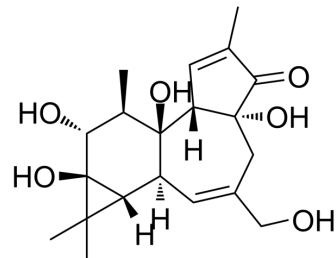


## Phorbol

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



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (137.20 mM; Need ultrasonic)  
 H<sub>2</sub>O : ≥ 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

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[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

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

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