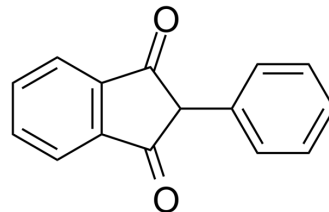


## Phenindione

Cat. No.:	HY-B0325		
CAS No.:	83-12-5		
Molecular Formula:	C <sub>15</sub> H <sub>10</sub> O <sub>2</sub>		
Molecular Weight:	222.24		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (449.96 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.4996 mL	22.4982 mL	44.9964 mL
	5 mM	0.8999 mL	4.4996 mL	8.9993 mL
	10 mM	0.4500 mL	2.2498 mL	4.4996 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 (11.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.5 mg/mL (11.25 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Phenindione is an anticoagulant which functions as a Vitamin K antagonist. Target: Others Phenindione (Rectadione) is an anticoagulant which functions as a Vitamin K antagonist. A lymphocyte transformation test showed proliferation of T-cells from the hypersensitive patient, but not from four controls on exposure to phenindione in vitro. Drug-specific T-cell clones were generated and characterized in terms of their phenotype, functionality, and mechanism of antigen presentation. Forty-three human leukocyte antigen class II restricted CD4+ αβ T-cell clones were identified. T-cell activation resulted in the secretion of interferon-γ and interleukin-5 [1].

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## REFERENCES

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[1]. Naisbitt, D.J., et al., Characterization of the T-cell response in a patient with phenindione hypersensitivity. Journal of Pharmacology and Experimental Therapeutics, 2005. 313(3): p. 1058-1065.

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

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