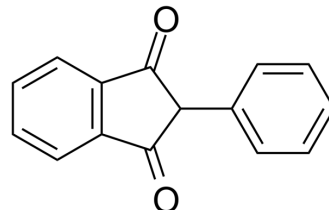


Phenindione

Cat. No.:	HY-B0325
CAS No.:	83-12-5
Molecular Formula:	C ₁₅ H ₁₀ O ₂
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)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

1. 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
2. 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].

REFERENCES

[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.

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

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