

## Dicoumarol

## Chemical Properties

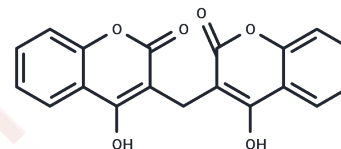
CAS No. : 66-76-2

Formula: C<sub>19</sub>H<sub>12</sub>O<sub>6</sub>

Molecular Weight: 336.3

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Dicoumarol (Dicoumarol) is a hydroxycoumarin originally isolated from molding sweet-clover hay, with anticoagulant and vitamin K depletion activities. Dicoumarol is a competitive inhibitor of vitamin K epoxidoreductase; thus, it inhibits vitamin K recycling and causes depletion of active vitamin K in blood. This prevents the formation of the active form of prothrombin and several other coagulant enzymes, and inhibits blood clotting.
Targets(IC50)	Reductase,PDK,Dehydrogenase,NADPH

## Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble) DMSO: 3.37 mg/mL (10.02 mM),Sonication is recommended. H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.97 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.9735 mL	14.8677 mL	29.7354 mL
5 mM	0.5947 mL	2.9735 mL	5.9471 mL
10 mM	0.2974 mL	1.4868 mL	2.9735 mL
50 mM	0.0595 mL	0.2974 mL	0.5947 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

#### Reference

Jaiswal AK. Arch Biochem Biophys. 2000, 375(1):62-8.

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