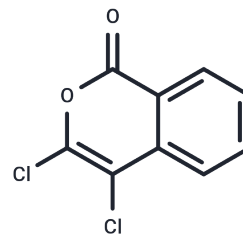


## 3,4 Dichloroisocoumarin

## Chemical Properties

CAS No. :	51050-59-0
Formula:	C <sub>9</sub> H <sub>4</sub> Cl <sub>2</sub> O <sub>2</sub>
Molecular Weight:	215.03
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	3,4 Dichloroisocoumarin is a granzyme, cathepsin G, and neutrophil elastase inhibitor
Targets(IC50)	Apoptosis,Cysteine Protease,Serine Protease

## Solubility Information

Solubility	DMSO: 150 mg/mL (697.58 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% (20% SBE-β-CD in Saline): < 10 mg/mL (46.51 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (46.51 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: < 10 mg/mL (46.51 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 10 mg/mL (46.51 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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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	1mg	5mg	10mg
1 mM	4.6505 mL	23.2526 mL	46.5051 mL
5 mM	0.9301 mL	4.6505 mL	9.301 mL
10 mM	0.4651 mL	2.3253 mL	4.6505 mL
50 mM	0.093 mL	0.4651 mL	0.9301 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

Rusbridge N M , Beynon R J . 3,4-Dichloroisocoumarin, a serine protease inhibitor, inactivates glycogen phosphorylase b[J]. Febs Letters, 1990, 268(1):133-136.

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M E Pereira, T Nguyen, B J Wagner.3,4-dichloroisocoumarin-induced activation of the degradation of beta-casein by the bovine pituitary multicatalytic proteinase complex.J Biol Chem. 1992 Apr 15;267(11):7949-55.

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