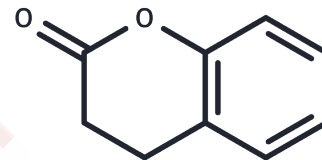


## Dihydrocoumarin

## Chemical Properties

CAS No. :	119-84-6
Formula:	C <sub>9</sub> H <sub>8</sub> O <sub>2</sub>
Molecular Weight:	148.16
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	Dihydrocoumarin (melilotin) is a compound found in <i>Melilotus officinalis</i> . Dihydrocoumarin is a yeast Sir2p inhibitor. Dihydrocoumarin also inhibits human SIRT1 and SIRT2 with IC <sub>50</sub> s of 208 μM and 295 μM, respectively.
Targets(IC <sub>50</sub> )	Sirtuin

## Solubility Information

Solubility	DMSO: 11 mg/mL (74.24 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (13.5 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

	1mg	5mg	10mg
1 mM	6.7495 mL	33.7473 mL	67.4946 mL
5 mM	1.3499 mL	6.7495 mL	13.4989 mL
10 mM	0.6749 mL	3.3747 mL	6.7495 mL
50 mM	0.135 mL	0.6749 mL	1.3499 mL

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

Podyma W, Baczek K, Angielczyk M, et al. The influence of shading on the yield and quality of southern sweet-grass (*Hierochloë australis* (Schrad.) Roem. & Schult.) raw material.[J]. Herba Polonica, 2010, 56(4):14-19.

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