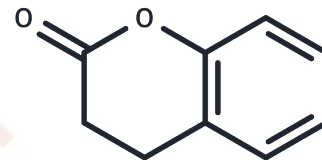


Dihydrocoumarin

Chemical Properties

CAS No. :	119-84-6
Formula:	C ₉ H ₈ O ₂
Molecular Weight:	148.16
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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 ₅₀ s of 208 μ M and 295 μ M, respectively.
Targets(IC ₅₀)	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)
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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.

Reference

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

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