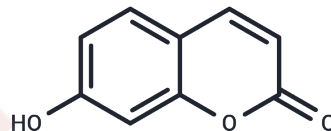


Umbelliferone

Chemical Properties

CAS No. :	93-35-6
Formula:	C ₉ H ₆ O ₃
Molecular Weight:	162.14
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	Umbelliferone (7-Hydroxycoumarin) is found in anise. Umbelliferone occurs widely in plants including Angelica species Phytoalexin of infected sweet potato. It has been reported to have antioxidant properties.
Targets(IC50)	Apoptosis, Antioxidant, Endogenous Metabolite

Solubility Information

Solubility	DMSO: 250 mg/mL (1541.88 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: 1 mg/mL (6.17 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	6.1675 mL	30.8375 mL	61.6751 mL
5 mM	1.2335 mL	6.1675 mL	12.335 mL
10 mM	0.6168 mL	3.0838 mL	6.1675 mL
50 mM	0.1234 mL	0.6168 mL	1.2335 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

Kabeya LM, et al. Chem Biol Interact. 2013 Oct 25;206(1):63-75.

Xu Y, Liang H, Xia K, et al. Umbelliferone attenuates calcium oxalate crystal-induced renal injury and inflammation by attenuating autophagy through the PI3K/AKT pathway. International Immunopharmacology. 2025, 150: 114250.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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