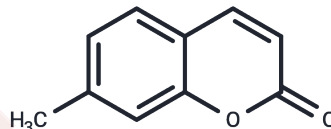


## 7-Methylcoumarin

## Chemical Properties

CAS No. : 2445-83-2  
Formula: C<sub>10</sub>H<sub>8</sub>O<sub>2</sub>  
Molecular Weight: 160.17  
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	7-Methylcoumarin with strong hepatoprotective activity.
Targets(IC50)	Others,Cytochromes P450,ROS
In vivo	Hepatoprotective and antioxidant potential of 7-methylcoumarin (MC) and 7-methoxycoumarin (MOC) in CCl <sub>4</sub> -induced hepatotoxicity in rats[1].

## Solubility Information

Solubility	DMSO: 30 mg/mL (187.3 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 (12.49 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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	1mg	5mg	10mg
1 mM	6.2434 mL	31.2168 mL	62.4337 mL
5 mM	1.2487 mL	6.2434 mL	12.4867 mL
10 mM	0.6243 mL	3.1217 mL	6.2434 mL
50 mM	0.1249 mL	0.6243 mL	1.2487 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

Sancheti S , Sancheti S , Seo S Y . Ameliorative effects of 7-methylcoumarin and 7-methoxycoumarin against CCl<sub>4</sub>-induced hepatotoxicity in rats[J]. Drug & Chemical Toxicology, 2013, 36(1):42-47.

Juvonen R O , Kuusisto M , Fohrgrup C , et al. Inhibitory effects and oxidation of 6-methylcoumarin, 7-methylcoumarin and 7-formylcoumarin, via human CYP2A6 and its mouse and pig orthologous enzymes[J]. Xenobiotica, 2015:1-11.

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