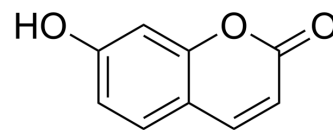


## Umbelliferone

Cat. No.:	HY-N0573	
CAS No.:	93-35-6	
Molecular Formula:	C <sub>9</sub> H <sub>6</sub> O <sub>3</sub>	
Molecular Weight:	162.14	
Target:	Endogenous Metabolite; Apoptosis	
Pathway:	Metabolic Enzyme/Protease; Apoptosis	
Storage:	Powder	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 14.29 mg/mL (88.13 mM)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic) (insoluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.1675 mL	30.8375 mL	61.6751 mL
	5 mM	1.2335 mL	6.1675 mL	12.3350 mL
	10 mM	0.6168 mL	3.0838 mL	6.1675 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: 1.43 mg/mL (8.82 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: 1.43 mg/mL (8.82 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Umbelliferone (7-Hydroxycoumarin), a natural product of the coumarin family, is a fluorescing compound which can be used as a sunscreen agent.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

### CUSTOMER VALIDATION

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- J Pharm Biomed Anal. 2019 Sep 10;174:734-743.
  - J Appl Toxicol. 2022 Sep 28.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Yu SM, et al. Umbelliferone exhibits anticancer activity via the induction of apoptosis and cell cycle arrest in HepG2 hepatocellular carcinoma cells. Mol Med Rep. 2015 Sep;12(3):3869-3873.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA