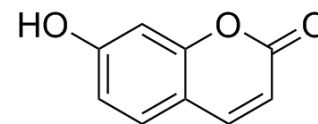


Umbelliferone

Cat. No.:	HY-N0573		
CAS No.:	93-35-6		
Molecular Formula:	C ₉ H ₆ O ₃		
Molecular Weight:	162.14		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
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 : 6.67 mg/mL (41.14 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

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: ≥ 0.67 mg/mL (4.13 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 0.67 mg/mL (4.13 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 0.67 mg/mL (4.13 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

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

IC₅₀ & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- J Pharm Biomed Anal. 2019 Sep 10;174:734-743.

See more customer validations on www.MedChemExpress.com

REFERENCES

[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.

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

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