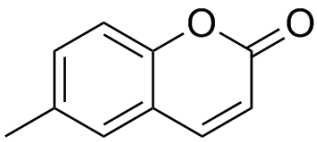
6-Methylcoumarin

Cat. No.:	HY-N1406		
CAS No.:	92-48-8		
Molecular Formula:	$C_{10}H_8O_2$		
Molecular Weight:	160.17		
Target:	Others		
Pathway:	Others		
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 : ≥ 125 mg/mL (780.42 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	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

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

BIOLOGICAL ACTIVITY

Description

6-Methylcoumarin is a synthetic fragrance widely used in cosmetics.

In Vitro

6-Methylcoumarin is reported to be almost nonphototoxic in epidermal tissue and cell culture phototoxicity test models. HaCaT cells are treated with 6-Methylcoumarin (1-10^5 nM) and/or UVA (5 J cm^{-2}), and γ-H2AX is detected by immunofluorescence staining and western blotting 4hours after the treatments. 6-Methylcoumarin clearly produces γ-H2AX-positive cells under UVA irradiation from a concentration of 100 nM[1].

REFERENCES

[1]. Toyooka T, et al. Phosphorylation of histone H2AX is a powerful tool for detecting chemical photogenotoxicity. J Invest Dermatol. 2011 Jun;131(6):1313-21.

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