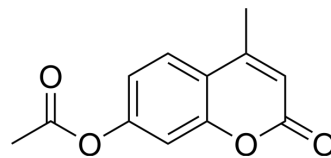


7-Acetoxy-4-methylcoumarin

Cat. No.:	HY-137877		
CAS No.:	2747-05-9		
Molecular Formula:	C ₁₂ H ₁₀ O ₄		
Molecular Weight:	218.21		
Target:	Gutathione S-transferase		
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 : 25 mg/mL (114.57 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	4.5827 mL	22.9137 mL	45.8274 mL
	5 mM	0.9165 mL	4.5827 mL	9.1655 mL
	10 mM	0.4583 mL	2.2914 mL	4.5827 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.46 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	7-Acetoxy-4-methylcoumarin is an inhibitor of GST.7-Acetoxy-4-methylcoumarin inhibits AFB1-DNA binding in vitro with 36.7% inhibition ^{[1][2]} .
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REFERENCES

- [1]. Feuer, G, et al. Induction of drug-metabolizing enzymes of rat liver by derivatives of coumarin. Canadian Journal of Physiology and Pharmacology, 48(4), 232-240.
- [2]. Raj HG, et al. Mechanism of biochemical action of substituted benzopyran-2-ones. Part 8: Acetoxycoumarin: protein transacetylase specificity for aromatic nuclear acetoxy groups in proximity to the oxygen heteroatom. Bioorg Med Chem. 2001 May;9(5):1085-9.

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

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