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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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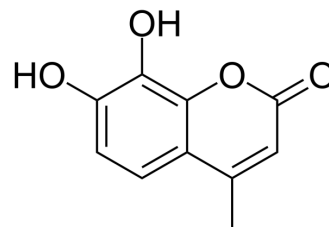
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4-Methylaphnetin

Cat. No.:	HY-N4286		
CAS No.:	2107-77-9		
Molecular Formula:	C ₁₀ H ₈ O ₄		
Molecular Weight:	192.17		
Target:	Apoptosis		
Pathway:	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 : 83.33 mg/mL (433.63 mM; Need ultrasonic)

Concentration	Solvent	Mass	Preparing Stock Solutions		
			1 mg	5 mg	10 mg
1 mM			5.2037 mL	26.0186 mL	52.0373 mL
5 mM			1.0407 mL	5.2037 mL	10.4075 mL
10 mM			0.5204 mL	2.6019 mL	5.2037 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: ≥ 2.08 mg/mL (10.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (10.82 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (10.82 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-Methylaphnetin is a precursor in the synthesis of derivatives of 4-methyl coumarin. 4-Methylaphnetin has potent, selective anti-proliferative and apoptosis-inducing effects on several cancer cell lines. 4-Methylaphnetin possesses radical scavenging property and strongly inhibits membrane lipid peroxidation^{[1][2][3]}.

REFERENCES

[1]. Vázquez R, et al. Pharmacodynamic study of the 7,8-dihydroxy-4-methylcoumarin-induced selective cytotoxicity toward U-937 leukemic cells versus mature monocytes: cytoplasmic p21(Cip1/WAF1) as resistance factor. *Biochem Pharmacol.* 2013 Jul 15;86(2):210-21.

[2]. Jin X, et al. 7,8-Dihydroxy-4-methylcoumarin provides neuroprotection by increasing hippocalcin expression. *Neurotox Res.* 2015 Apr;27(3):268-74.

[3]. Raj HG, et al. Mechanism of biochemical action of substituted 4-methylbenzopyran-2-ones. Part 5: Pulse radiolysis studies on the antioxidant action of 7,8-diacetoxy-4-methylcoumarin. *Bioorg Med Chem.* 1999 Sep;7(9):2091-4.

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

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