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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

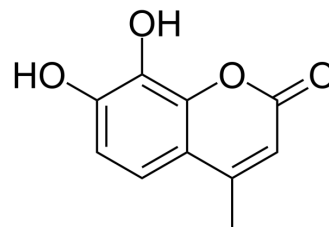
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

4-Methyldaphnetin

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

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- [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.
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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

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