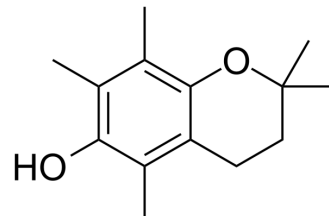


2,2,5,7,8-Pentamethyl-6-Chromanol

Cat. No.:	HY-111024		
CAS No.:	950-99-2		
Molecular Formula:	C ₁₄ H ₂₀ O ₂		
Molecular Weight:	220.31		
Target:	Androgen Receptor		
Pathway:	Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (453.91 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.5391 mL	22.6953 mL	45.3906 mL
	5 mM	0.9078 mL	4.5391 mL	9.0781 mL
	10 mM	0.4539 mL	2.2695 mL	4.5391 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 (9.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (9.44 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (9.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2,2,5,7,8-Pentamethyl-6-Chromanol (PMC) is the anti-oxidant moiety of vitamin E (α-tocopherol). 2,2,5,7,8-Pentamethyl-6-Chromanol has potent androgen receptor (AR) signaling modulation and anti-cancer activity against prostate cancer cell lines^[1].

REFERENCES

[1]. Kyriakopoulos CE, et al. A multicenter phase 1/2a dose-escalation study of the antioxidant moiety of vitamin E 2,2,5,7,8-pentamethyl-6-chromanol (APC-100) in men with advanced prostate cancer. Invest New Drugs. 2016 Apr;34(2):225-30.

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

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