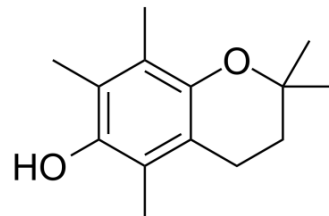


## 2,2,5,7,8-Pentamethyl-6-Chromanol

Cat. No.:	HY-111024		
CAS No.:	950-99-2		
Molecular Formula:	C <sub>14</sub> H <sub>20</sub> O <sub>2</sub>		
Molecular Weight:	220.31		
Target:	Androgen Receptor		
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 : 250 mg/mL (1134.76 mM; Need ultrasonic)

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<sup>[1]</sup>.

### REFERENCES

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[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.

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

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