3-Campholenyl-2-butanol

Cat. No.: HY-139783

CAS No.: 65113-99-7

Molecular Formula: $C_{14}H_{26}O$

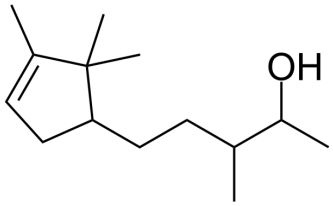
Molecular Weight: 210.36

Target: Apoptosis

Pathway: Apoptosis

Storage:

Pure form	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (475.38 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	4.7538 mL	23.7688 mL	47.5376 mL
	5 mM	0.9508 mL	4.7538 mL	9.5075 mL
	10 mM	0.4754 mL	2.3769 mL	4.7538 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: ≥ 2.5 mg/mL (11.88 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (11.88 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (11.88 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-Campholenyl-2-butanol, a synthetic sandalwood odorant, is a selective olfactory receptor OR2AT4 agonist. 3-Campholenyl-2-butanol prolongs human hair growth ex vivo by decreasing apoptosis and increasing production of the anagen-prolonging growth factor IGF-1 in the outer root sheath (ORS)[1].

In Vitro

3-Campholenyl-2-butanol (500 μM; 6 days) retards spontaneous hair follicle (HF) regression (catagen development) ex vivo and significantly reduces hair matrix keratinocyte apoptosis[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Chiamulera C, et al. Effect of NMDA- and strychnine-insensitive glycine site antagonists on NMDA-mediated convulsions and learning. Psychopharmacology (Berl). 1990;102(4):551-552.

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

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