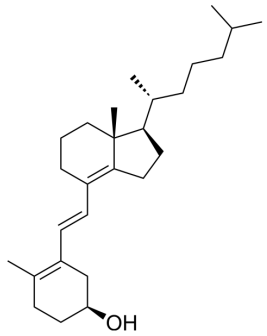
Isotachysterol 3

Cat. No.:	HY-130704
CAS No.:	22350-43-2
Molecular Formula:	$C_{27}H_{44}O$
Molecular Weight:	384.64
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	-80°C, protect from light, stored under nitrogen * The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 3.25 mg/mL (8.45 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 3.25 mg/mL (8.45 mM); Suspended solution; Need ultrasonic
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 3.25 mg/mL (8.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Isotachysterol 3 is an analog of 1,25-dihydrox Vitamin D3. Isotachysterol 3 stimulates intestinal calcium transport and bone calcium mobilization in anephric rats[1].

In Vivo

Isotachysterol 3 stimulates intestinal calcium transport and bone calcium mobilization in normal and anephric rats[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Weanling, male albino rats[1]
Dosage:	5 μg in 0.05 mL of 95 percent ethanol
Administration:	Intrajugular injection
Result:	Stimulated intestinal calcium transport and bone calcium mobilization.

REFERENCES

[1]. M F Holick, et al. Isotachysterol-3 and 25-hydroxyisotachysterol-3: Analogs of 1,25-dihydrox Vitamin D3. Science. 1973 Jun 1;180(4089):964-6.

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

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