



# SZABO SCANDIC

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## 1-Triacontanol

<b>Cat. No.:</b>	HY-N6933
<b>CAS No.:</b>	593-50-0
<b>Molecular Formula:</b>	C <sub>30</sub> H <sub>62</sub> O
<b>Molecular Weight:</b>	439
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble) H <sub>2</sub> O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)
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### BIOLOGICAL ACTIVITY

**Description** 1-Triacontanol is a naturally occurring plant growth regulator. 1-Triacontanol is a saturated long-chain alcohol that has growth-promoting activities on a number of plants. 1-Triacontanol has anticancer activity<sup>[1][2]</sup>.

**In Vitro** 1-triacontanol (0.5-5 mg/L, 15 days) can promote the growth of Bougainhorn pot plants, promote flowering and improve quality<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**In Vivo** Pharmacokinetic Analysis in Sprague-Dawley rats Model<sup>[2]</sup>

Route	Dose (mg/kg)	AUC <sub>last</sub> (ng·h/mL)	AUC <sub>INF_obs</sub> (ng·h/mL)	t <sub>1/2</sub> (h)	C <sub>max</sub> (ng/mL)	V <sub>ss_obs</sub> (mL/kg)	MRT <sub>INF_obs</sub> (h)	F (%)
i.g.	30	68.66	87.77	2.37	24.32	42290	2.61	2.71
i.g.	60	87.74	93.62	1.27	45.36	12615	2.35	1.45
i.g.	120	208.89	244.25	2.07	98.74	81480	2.48	1.89
i.v.	3	312.80	323.87	1.63	338.53	25	2.224	/

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

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## REFERENCES

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[1]. Wang C, et al. Investigation on pharmacokinetics, tissue distribution and excretion of 1-triacontanol in rats by gas chromatography-tandem mass spectrometry (GC-MS/MS). *Xenobiotica*. 2015 Jan;45(1):71-8.

[2]. Khandaker MM, et al. The influence of 1-triacontanol on the growth, flowering, and quality of potted Bougainvilleaplants (*Bougainvillea glabra* var. "Elizabeth Angus") under natural conditions. *ScientificWorldJournal*. 2013 Jul 17;2013:308651.

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

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