



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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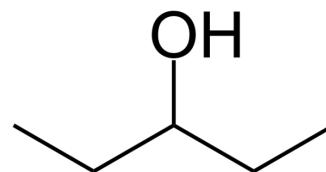
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3-Pentanol

Cat. No.:	HY-W087988		
CAS No.:	584-02-1		
Molecular Formula:	C ₅ H ₁₂ O		
Molecular Weight:	88.15		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (1134.43 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	11.3443 mL	56.7215 mL	113.4430 mL
	5 mM	2.2689 mL	11.3443 mL	22.6886 mL
	10 mM	1.1344 mL	5.6721 mL	11.3443 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: ≥ 2.5 mg/mL (28.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (28.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (28.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

3-Pentanol is an active organic compound produced by plants and is a component of emitted insect sex pheromones. 3-pentanol elicits plant immunity against microbial pathogens and an insect pest in crop plants^[1].

REFERENCES

[1]. Geun C Song, et al. Gaseous 3-pentanol primes plant immunity against a bacterial speck pathogen, *Pseudomonas syringae* pv. tomato via salicylic acid and jasmonic acid-dependent signaling pathways in *Arabidopsis*. *Front Plant Sci.* 2015 Oct 6;6:821.

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

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