



# SZABO SCANDIC

Part of Europa Biosite

## 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

### SZABO-SCANDIC HandelsgmbH

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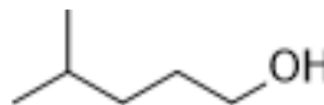
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## 4-Methyl-1-pentanol

<b>Cat. No.:</b>	HY-W007511		
<b>CAS No.:</b>	626-89-1		
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>14</sub> O		
<b>Molecular Weight:</b>	102.18		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	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 (978.67 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	9.7867 mL	48.9333 mL	97.8665 mL
	5 mM	1.9573 mL	9.7867 mL	19.5733 mL
	10 mM	0.9787 mL	4.8933 mL	9.7867 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 (24.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (24.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (24.47 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

4-Methyl-1-pentanol (Isohexanol) is a pentanol added with methyl group, which can be used as a solvent and has excellent synergistic effect with PVCap. 4-Methyl-1-pentanol is also a volatile aroma component of red wine, which is often used in the production and blending of wine. 4-Methyl-1-pentanol can also be used as an alcohol antagonist to antagonize the effects of ethanol and 1-butanol on L1-mediated cell-cell adhesion, and is used in the study of fetal alcohol syndrome<sup>[1][2][3]</sup>.

### REFERENCES

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- [1]. Wilkemeyer MF, et al. Novel antagonists of l1-mediated cell adhesion: multiple mechanisms of action. Mol Pharmacol. 2002 Nov;62(5):1053-60.
- [2]. SKelland M A, et al. Solvent Synergists for Improved Kinetic Hydrate Inhibitor Performance of Poly (N-vinylcaprolactam)[J]. Energy & Fuels, 2020, 34(2): 1653-1663.
- [3]. Selli S, et, al. Volatile composition of red wine from cv. Kalecik Karası grown in central Anatolia
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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