



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Pentacosane

<b>Cat. No.:</b>	HY-N7494		
<b>CAS No.:</b>	629-99-2		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>52</sub>		
<b>Molecular Weight:</b>	352.68		
<b>Target:</b>	Others		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 5 mg/mL (14.18 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.8354 mL	14.1772 mL	28.3543 mL
		5 mM	0.5671 mL	2.8354 mL	5.6709 mL
10 mM		0.2835 mL	1.4177 mL	2.8354 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 0.5 mg/mL (1.42 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 0.5 mg/mL (1.42 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 0.5 mg/mL (1.42 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Pentacosane is one of the major components in the acetone extract from Curcuma raktakanda and is also in the essential oil from the leaves of Malus domestica. Pentacosane exhibit anti-cancer activities <sup>[1]</sup> .
<b>In Vitro</b>	<p>Pentacosane exhibits activities against C-6, A549 (lung carcinoma), CHOK1 (ovarian), and THP-1 (acute monocytic leukemia) cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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## REFERENCES

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[1]. Shruti Mishra, et al. Curcuma raktakanda Induces Apoptosis and Suppresses Migration in Cancer Cells: Role of Reactive Oxygen Species. Biomolecules. 2019 Apr 23;9(4):159.

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

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