

## Docosane

Cat. No.:	HY-N9929
CAS No.:	629-97-0
Molecular Formula:	C <sub>22</sub> H <sub>46</sub>
Molecular Weight:	310.6
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 16.67 mg/mL (53.67 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.2196 mL	16.0979 mL	32.1957 mL
		5 mM	0.6439 mL	3.2196 mL	6.4392 mL
	10 mM	0.3220 mL	1.6098 mL	3.2196 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (5.38 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (5.38 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (5.38 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Docosane, a straight chain alkane, can be used to synthesize structural composites with thermal energy storage/release capability <sup>[1][2]</sup> .
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### REFERENCES

[1]. Asakawa Y, et, al. Volatile components of selected species of the liverwort genera *Frullania* and *Schusterella* (Frullaniaceae) from New Zealand, Australia and South America: a chemosystematic approach. *Phytochemistry*. 2003 Feb;62(3):439-52.

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[2]. Fredi G, et, al. Docosane-Organosilica Microcapsules for Structural Composites with Thermal Energy Storage/Release Capability. Materials (Basel). 2019 Apr 19;12(8):1286.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA