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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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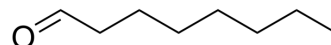
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Octanal

Cat. No.:	HY-N8015
CAS No.:	124-13-0
Molecular Formula:	C ₈ H ₁₆ O
Molecular Weight:	128.21
Target:	Endogenous Metabolite; Bacterial; Fungal
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Pure form -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (779.97 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		7.7997 mL	38.9985 mL	77.9970 mL
		5 mM		1.5599 mL	7.7997 mL	15.5994 mL
		10 mM		0.7800 mL	3.8999 mL	7.7997 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: ≥ 2.5 mg/mL (19.50 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (19.50 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (19.50 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Octanal is a fragrant aldehyde with antioxidant and antibacterial activity. Its antifungal effect against <i>G. citri-aurantii</i> may be related to the disruption of cell membrane integrity and the leakage of cellular components. Additionally, Octanal exhibits cytotoxicity towards HeLa cells, with an IC ₅₀ value of 3.5 μg/mL ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite

REFERENCES

[1]. Haien Zhou, et al. "Antifungal activity of citral, octanal and α -terpineol against *Geotrichum citri-aurantii*." Food Control 37 (2014): 277-283.

[2]. Kehai Liu, et al. Isolation and biological activities of decanal, linalool, valencene, and octanal from sweet orange oil. J Food Sci. 2012 Nov;77(11):C1156-61.

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

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