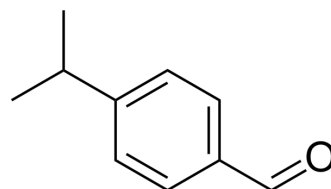


Cuminaldehyde

Cat. No.:	HY-Y0790
CAS No.:	122-03-2
Molecular Formula:	C ₁₀ H ₁₂ O
Molecular Weight:	148.2
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (674.76 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	6.7476 mL	33.7382 mL	67.4764 mL
		5 mM	1.3495 mL	6.7476 mL	13.4953 mL
	10 mM	0.6748 mL	3.3738 mL	6.7476 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (16.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.87 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (16.87 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Cuminaldehyde is the major component of Cuminum cyminum, a natural aldehyde with inhibitory effect on alpha-synuclein fibrillation and cytotoxicity. Cuminaldehyde shows anticancer activity ^[1] .
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REFERENCES

[1]. Morshedi D, et al. Cuminaldehyde as the Major Component of Cuminum cyminum, a Natural Aldehyde with Inhibitory Effect on Alpha-Synuclein Fibrillation and Cytotoxicity. J Food Sci. 2015 Oct;80(10):H2336-45.

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

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