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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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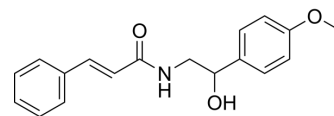
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Aegeline

Cat. No.:	HY-W042156		
CAS No.:	456-12-2		
Molecular Formula:	C ₁₈ H ₁₉ NO ₃		
Molecular Weight:	297.35		
Target:	Fungal		
Pathway:	Anti-infection		
Storage:	Powder	-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 (336.30 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.3630 mL	16.8152 mL	33.6304 mL
				5 mM	0.6726 mL	3.3630 mL	6.7261 mL
10 mM				0.3363 mL	1.6815 mL	3.3630 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 (8.41 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.41 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Aegeline, a main alkaloid, mimics the yeast SNARE protein Sec22p in suppressing α -synuclein and Bax toxicity in yeast. Aegeline restores growth of yeast cells suppressed by either asyn or Bax. Antioxidant activity ^[1] .
In Vitro	Aegeline also prevents growth block in cells expressing the more toxic A53T α -synuclein mutant. Restoration of cell growth occurred through inhibition of increased ROS levels, mitochondrial membrane potential loss and nuclear DNA fragmentation, characteristics of apoptosis manifested in α -synuclein or Bax-expressing cells ^[1] . Aegeline shows weak inhibitory effects on the histamine release from RPMCs, even though still succeed to inhibit when the histamine release induced by thapsigargin ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Derf A, et al. a natural product from the plant Aegle marmelos, mimics the yeast SNARE protein Sec22p in suppressing α -synuclein and Bax toxicity in yeast [published correction appears in Bioorg Med Chem Lett. 2019 Aug 15;29(16):2437-2438]. Bioorg Med Chem Lett. 2019;29(3):454-460.
- [2]. Nugroho AE, et al. Effects of aegeline, a main alkaloid of Aegle Marmelos Correa leaves, on the histamine release from mast cells. Pak J Pharm Sci. 2011;24(3):359-367.
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Caution: Product has not been fully validated for medical applications. For research use only.

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