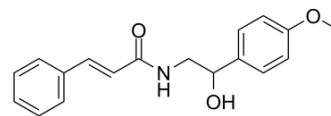


Aegeline

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



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.

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

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