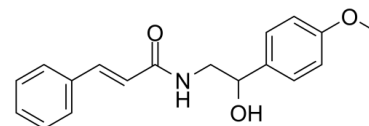


Data Sheet

Product Name:	Aegeline
Cat. No.:	CS-W022896
CAS No.:	456-12-2
Molecular Formula:	C ₁₈ H ₁₉ NO ₃
Molecular Weight:	297.35
Target:	Fungal
Pathway:	Anti-infection
Solubility:	DMSO : 100 mg/mL (336.30 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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 α syn 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].

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.

CAIndexNames:

2-Propenamamide, N-[2-hydroxy-2-(4-methoxyphenyl)ethyl]-3-phenyl-, (2E)-

SMILES:

O=C(NCC(O)C1=CC=C(OC)C=C1)/C=C/C2=CC=CC=C2

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

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