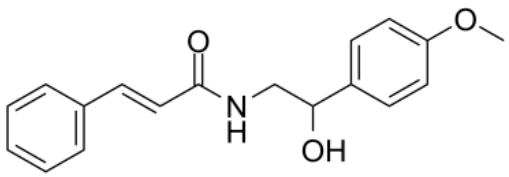
Product Data Sheet

Product Name: Aegeline
Cat. No.: GC60566

Chemical Properties

Cas. No.	456-12-2		
SMILES	O=C(NCC(O)C1=CC=C(OC)C=C1)/C=C/C2=CC=CC=C2		
Formula	$C_{18}H_{19}NO_3$	M.Wt	297.35
Solubility		Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

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 αsyn or Bax. Antioxidant activity[1].

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 orBax-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].

[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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