

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

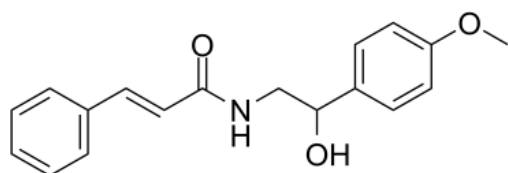
Formula $C_{18}H_{19}NO_3$ M.Wt 297.35

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 α syn 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

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

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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].

[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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