

Product Data Sheet

Product Name: Isoliensinine

Cat. No.: GC38220

Chemical Properties

Cas. No. 6817-41-0

SMILES OC1=CC2=C(C=C1OC)CCN(C)[C@@H]2CC3=CC=C(O)C(OC4=CC5=C(C=C4OC)CCN(C)[C@@H]5CC6=CC=C(OC)C=C6)=C3

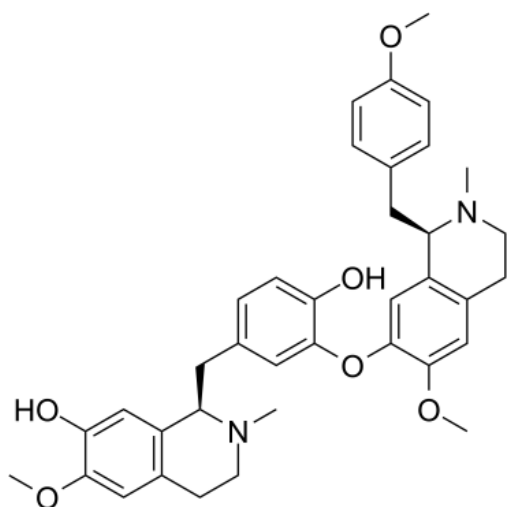
Formula $C_{37}H_{42}N_2O_6$ M.Wt 610.74

Solubility DMSO: 250 mg/mL (409.34 mM) Storage 4°C, protect from light

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

Isoliensinine is a bisbenzylisoquinoline alkaloid extracted from the seed embryo of *Nelumbo nucifera*, with anti-oxidant and anti-inflammatory and anti-cancer activities. Isoliensinine induces apoptosis in triple-negative human breast cancer cells[1][2].

Isoliensinine induces apoptosis in triple-negative human breast cancer cells through ROS generation and p38 MAPK/JNK activation[1]. Isoliensinine exerts antiproliferative effect on CASCs induced by

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

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phenylephrine, and its mechanisms are related to decrease the overexpression of growth factors (PDGF-beta, bFGF), protooncogene (c-fos, c-myc) and hsp70[3].

[1]. Zhang X, et al. Isoliensinine induces apoptosis in triple-negative human breast cancer cells through ROS generation and p38 MAPK/JNK activation. Sci Rep. 2015 Jul 29;5:12579. [2]. Xiao JH, et al. Effects of isoliensinine on proliferation of porcine coronary arterial smooth muscle cells induced by phenylephrine. Yao Xue Xue Bao. 2005 Feb;40(2):105-10.

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