

Product Data Sheet

Product Name: Magnoflorine

Cat. No.: GC41370

Chemical Properties

Cas. No. 2141-09-5

SMILES OC1=C(OC)C=C2CC[N+](C)(C)[C@@]3([H])CC4=CC=C(OC)C(O)=C4C1=C32

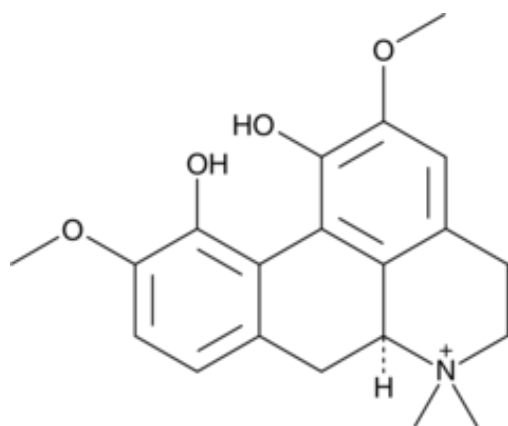
Formula $C_{20}H_{24}NO_4$ M.Wt 342.4

Solubility DMF: 100 mg/ml, DMSO: 100 mg/ml, Ethanol: 50 mg/ml, PBS (pH 7.2): 10 mg/ml
Storage Store at -20°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

Magnoflorine is an alkaloid and a major constituent of *S. acutum* that has diverse biological activities. It reduces hemolysis induced by lysophosphatidylcholine (LPC), but not NaCl, in a rat erythrocyte suspension when used at concentrations ranging from 0.01 to 10 μ M. Magnoflorine (10 μ M) induces intracellular chloride influx in neuroblastoma cells, an effect that is reversed by the GABAA receptor antagonist bicuculline. It reduces TNF- α -induced NF- κ B expression as well as production of IL-6 and IL-8 in BEAS-2B cells. In vivo, magnoflorine (20 mg/kg, i.p.) improves short- and long-term memory

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

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acquisition in a passive avoidance test in a mouse model of scopolamine-induced memory impairment.

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