

Product Data Sheet

Product Name: Hydrohydrastinine

Cat. No.: GC79515

Chemical Properties

Cas. No. 494-55-3

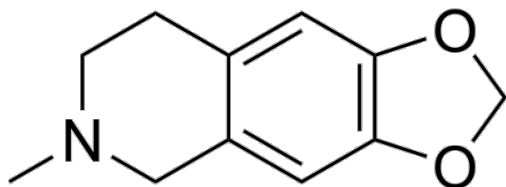
Formula $C_{11}H_{13}NO_2$ M.Wt 191.23

Solubility DMSO: 100 mg/mL (522.93 mM; Need ultrasonic) Storage Store at 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

Hydrohydrastinine is a selective $\alpha 4\beta 2$ nicotinic acetylcholine receptor antagonist with an IC_{50} of 2.6 μM and a K_i of 17 μM . Hydrohydrastinine exhibits weak activity at $\alpha 4\beta 4$ and $\alpha 3\beta 4$ nicotinic acetylcholine receptors. Hydrohydrastinine can be used for the research of depression [1].

In Vitro, Hydrohydrastinine (Compound 3c) binds potently to $\alpha 4\beta 2$ -HEK293 cell membranes with a K_i of 17 μM and IC_{50} of 2.6 μM [1].

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

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References:

[1]. Crestey F, et al. Dual Nicotinic Acetylcholine Receptor $\alpha 4 \beta 2$ Antagonists/ $\alpha 7$ Agonists: Synthesis, Docking Studies, and Pharmacological Evaluation of Tetrahydroisoquinolines and Tetrahydroisoquinolinium Salts. J Med Chem. 2018;61(4):1719-1729.

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