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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Pseudocoptisine chloride

Cat. No.: HY-N6894A

CAS No.: 30044-78-1

Molecular Formula: $C_{19}H_{14}ClNO_4$

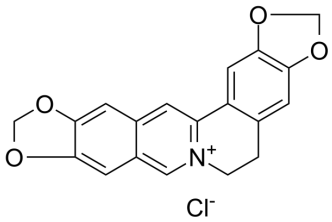
Molecular Weight: 355.77

Target: Cholinesterase (ChE)

Pathway: Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 1 mg/mL (2.81 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8108 mL	14.0540 mL	28.1080 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Pseudocoptisine (Isocoptisine) chloride is a quaternary alkaloid with benzylisoquinoline skeleton, was isolated from Corydalis Tuber. Pseudocoptisine chloride inhibits acetylcholinesterase (AChE) activity with an IC_{50} of 12.8 μM. Anti-inflammatory and anti-amnestic effects[1][2].

In Vitro

Pseudocoptisine (0, 60, 90 μM; 1 hour) dose-dependently inhibited LPS-induced NO production in RAW264.7 cells[2].

Pseudocoptisine (30-90 μM; 1 hour; RAW264.7 cells) significantly reduces the LPS-induced TNF-α and IL-6 production and their mRNA expressions[1].

Pseudocoptisine acetate reduces levels of the pro-inflammatory mediators, such as, iNOS, COX-2, TNF-alpha, and IL-6 through the inhibition of NF-kappaB activation via the suppression of ERK and p38 phosphorylation in RAW 264.7 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

The anti-amnesic activities of Pseudocoptisine in mice on the learning and memory impairments induced by scopolamine (1.0 mg/kg, i.p.) are examined. Pseudocoptisine (2.0 mg/kg, p.o.) significantly reverses cognitive impairments in mice by passive avoidance test[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hung TM, et al. Anti-amnestic activity of pseudocoptisine from Corydalis Tuber. Biol Pharm Bull. 2008;31(1):159-162.

[2]. Yun KJ, et al. Quaternary alkaloid, pseudocoptisine isolated from tubers of Corydalis turtschaninovi inhibits LPS-induced nitric oxide, PGE(2), and pro-inflammatory cytokines production via the down-regulation of NF-kappaB in RAW 264.7 murine macrophage c

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