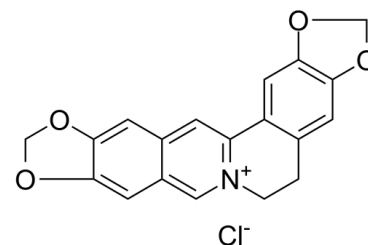


Data Sheet

Product Name:	Pseudocoptisine (chloride)
Cat. No.:	CS-0158969
CAS No.:	30044-78-1
Molecular Formula:	C ₁₉ H ₁₄ ClNO ₄
Molecular Weight:	355.77
Target:	AChE
Pathway:	Neuronal Signaling
Solubility:	DMSO : 1 mg/mL (2.81 mM; ultrasonic and warming and heat to 60°C)



BIOLOGICAL ACTIVITY:

Pseudocoptisine (Isocoptisine) chloride is a quaternary alkaloid with benzyloquinoline skeleton, was isolated from *Corydalis Tuber*. Pseudocoptisine chloride inhibits **acetylcholinesterase (AChE)** activity with an **IC₅₀** of 12.8 μM. Anti-inflammatory and anti-amnesic 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]. **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].

References:

[1]. Hung TM, et al. Anti-amnesic 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 cells. *Int Immunopharmacol*. 2009;9(11):1323-1331.

CAIndexNames:

Bis[1,3]benzodioxolo[5,6-a:5',6'-g]quinolizinium, 5,6-dihydro-, chloride

SMILES:

C12=[N+](C=C3C(C=C4C(OCO4)=C3)=C2)CCC5=CC6=C(OCO6)C=C15.[Cl-]

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA