



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

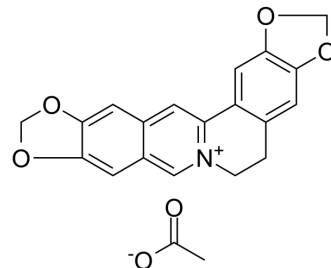
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Pseudocoptisine acetate

Cat. No.:	HY-N6894
CAS No.:	30426-66-5
Molecular Formula:	C ₂₁ H ₁₇ NO ₆
Molecular Weight:	379.36
Target:	AChE
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pseudocoptisine (Isocoptisine) acetate is a quaternary alkaloid with benzylisoquinoline skeleton, was isolated from Corydalis Tuber. Pseudocoptisine acetate inhibits acetylcholinesterase (AChE) activity with an IC ₅₀ 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] . 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]. 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 Oct;9(11):1323-31.
- [2]. Hung TM, et al. Anti-amnesic activity of pseudocoptisine from Corydalis Tuber. *Biol Pharm Bull.* 2008;31(1):159-162.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

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