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

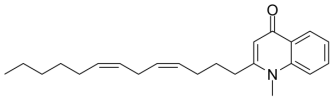
mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

# 1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone

| | |
|---|---|
| **Cat. No.:** | HY-N9530 |
| **CAS No.:** | 120693-53-0 |
| **Molecular Formula:** | $C_{23}H_{31}NO$ |
| **Molecular Weight:** | 337.5 |
| **Target:** | Acyltransferase; Angiotensin Receptor; Bacterial |
| **Pathway:** | Metabolic Enzyme/Protease; GPCR/G Protein; Anti-infection |
| **Storage:** | Please store the product under the recommended conditions in the Certificate of Analysis. |



## BIOLOGICAL ACTIVITY

| | |
|---|---|
| **Description** | 1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone, a quinolone alkaloid, is a diacylglycerol acyltransferase inhibitor and angiotensin II receptor blocker, with $IC_{50}$s of 20.1 μM and 34.1 μM, respectively. 1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone shows potent anti-Helicobacter pylori activity with the MIC of 10 μg/mL[1][2][3]. |
| **$IC_{50}$ & Target** | IC50: 20.1 μM (diacylglycerol acyltransferase)[3], 34.1 μM (angiotensin II receptor)[2] |
| **In Vitro** | 1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone shows anti-Helicobacter pylori activity, with the MIC of 10 μg/mL, and has no effect on Helicobacter pylori urease activity at the concentration of 300 μg/mL[1].<br>1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone (5-500 μM) shows a dose-dependent diacylglycerol acyltransferase (DGAT) inhibition, with an $IC_{50}$ of 20.1 μM[3].<br>1-Methyl-2-[(4Z,7Z)-4,7-tridecadienyl]-4(1H)-quinolone (5-20 μM) inhibits leukotriene biosynthesis in human polymorphonuclear granulocytes, with an $IC_{50}$ of 10.1 μM[4].<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

## REFERENCES

[1]. Rho TC, et, al. Anti-Helicobacter pylori activity of quinolone alkaloids from Evodiae fructus. Biol Pharm Bull. 1999 Oct;22(10):1141-3.

[2]. Lee HS, et, al. Inhibition of angiotensin II receptor binding by quinolone alkaloids from Evodia rutaecarpa. Phytotherapy Research. 1998 May; 12(3): 212-214.

[3]. Ko JS, et, al. Quinolone alkaloids, diacylglycerol acyltransferase inhibitors from the fruits of Evodia rutaecarpa. Planta Med. 2002 Dec;68(12):1131-3.

[4]. Adams M, et, al. Inhibition of leukotriene biosynthesis by quinolone alkaloids from the fruits of Evodia rutaecarpa. Planta Med. 2004 Oct;70(10):904-8.

**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