1-Methyl-2-nonyl-4(1H)-quinolone

Cat. No.: HY-N1636

CAS No.: 68353-24-2

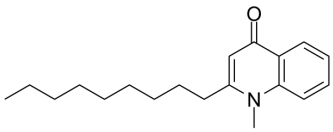
Molecular Formula: $C_{19}H_{27}NO$

Molecular Weight: 285.42

Target: Monoamine Oxidase

Pathway: Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1-Methyl-2-nonyl-4(1H)-quinolone, a quinolone alkaloid, is a potent and selective MAO-B (monoamine oxidase) inhibitor. 1-Methyl-2-nonyl-4(1H)-quinolone exhibites inhibitory activity on leukotriene biosynthesis, with an IC_{50} of 12.1 μM[1][2].	
IC_{50} & Target	MAO-B	MAO-A
In Vitro	1-Methyl-2-nonyl-4(1H)-quinolone shows more potent inhibitory effects against MAO-B compared to MAO-A[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Han XH, et al. Quinolone alkaloids from evodiae fructus and their inhibitory effects on monoamine oxidase. Arch Pharm Res. 2007 Apr;30(4):397-401.

[2]. 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.

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