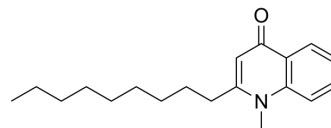


1-Methyl-2-nonyl-4(1H)-quinolone

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 exhibits 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.

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

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