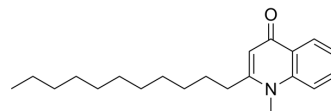


1-Methyl-2-undecyl-4(1H)-quinolone

Cat. No.:	HY-N1638
CAS No.:	59443-02-6
Molecular Formula:	C ₂₁ H ₃₁ NO
Molecular Weight:	313.48
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-undecyl-4(1H)-quinolone is a potent, irreversible and selective inhibitor of type B monoamine oxidase (MAO-B). 1-Methyl-2-undecyl-4(1H)-quinolone shows a selective inhibition of MAO-B activity with the IC ₅₀ and K _i values of 15.3 μM and 9.91 μM, respectively, but did not inhibit type A MAO (MAO-A) activity. Methyl-2-undecyl-4(1H)-quinolone, as a quinolone alkaloid, is isolated from fresh leaves and fruits of <i>Evodia rutaecarpa</i> HOOK. f. et THOMS ^{[1][2]} .	
IC₅₀ & Target	MAO-B 15.3 μM (IC ₅₀)	MAO-B 9.91 μM (K _i)
In Vitro	1-Methyl-2-undecyl-4(1H)-quinolone shows a selective inhibition of MAO-B activity with the IC ₅₀ and K _i values of 15.3 μM and 9.91 μM, respectively, but did not inhibit type A MAO (MAO-A) activity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

- [1]. Toshiya K, et al. Isolation and Structure Elucidation of Three Quinolone
- [2]. Lee MK, et al. 1-methyl-2-undecyl-4(1H)-quinolone as an irreversible and selective inhibitor of type B monoamine oxidase. *Chem Pharm Bull (Tokyo)*. 2003;51(4):409-411.

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

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