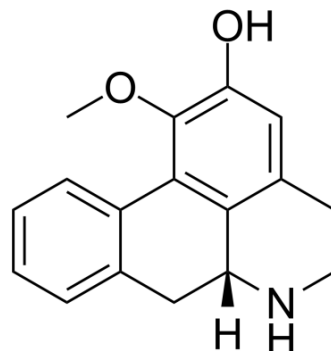


Asimilobine

Cat. No.:	HY-N7512
CAS No.:	6871-21-2
Molecular Formula:	C ₁₇ H ₁₇ NO ₂
Molecular Weight:	267.32
Target:	Dopamine Receptor; 5-HT Receptor; Parasite
Pathway:	GPCR/G Protein; Neuronal Signaling; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Asimilobine is an aporphine isoquinoline alkaloid isolated from plant species of <i>Magnolia obobata</i> Thun. Asimilobine is a dopamine biosynthesis inhibitor and a serotonergic receptor antagonist. Asimilobine shows an antimalarial and anti-cancer activity ^{[1][2]} .	
IC₅₀ & Target	Dopamine Receptor	serotonergic receptor
In Vitro	<p>Asimilobine (0.05-0.2 μM; for 24 h) shows a significant inhibition of intracellular dopamine levels in a concentration-dependent manner with an IC₅₀ value of 0.13 μM^[2].</p> <p>Asimilobine (0.15 μM) inhibits tyrosine hydroxylase (TH) and aromatic L-amino acid decarboxylase (AADC) activities at 24 h^[2].</p> <p>Asimilobine also decreases TH mRNA levels and intracellular cyclic AMP levels^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	

REFERENCES

- [1]. N Shoji, et al. Asimilobine and Lirinidine, Serotonergic Receptor Antagonists, From *Nelumbo Nucifera*. *J Nat Prod.* Jul-Aug 1987;50(4):773-4.
- [2]. Chun-Mei Jin, et al. Effects of Asimilobine on Dopamine Biosynthesis and L-DOPA-induced Cytotoxicity in PC12 Cells. *J Asian Nat Prod Res.* Jul-Aug 2008;10(7-8):747-55.

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

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