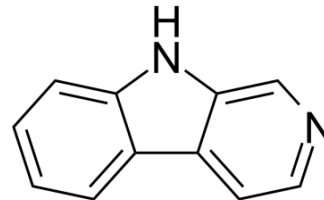


Norharmane

Cat. No.:	HY-W008566	
CAS No.:	244-63-3	
Molecular Formula:	C ₁₁ H ₈ N ₂	
Molecular Weight:	168.2	
Target:	Monoamine Oxidase; Endogenous Metabolite	
Pathway:	Neuronal Signaling; Metabolic Enzyme/Protease	
Storage:	Powder	-20°C 3 years
		4°C 2 years
	In solvent	-80°C 6 months
		-20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 11 mg/mL (65.40 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.9453 mL	29.7265 mL	59.4530 mL
	5 mM	1.1891 mL	5.9453 mL	11.8906 mL
	10 mM	0.5945 mL	2.9727 mL	5.9453 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 1.1 mg/mL (6.54 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 1.1 mg/mL (6.54 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

Norharmane (Norharman), isolated from coffee, is a potent and selective monoamine oxidase A (MAO-A) inhibitor with a K_i of 3.34 μM^[1].

IC₅₀ & Target

MAO-A 3.34 μM (K _i)	Human Endogenous Metabolite
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REFERENCES

[1]. Herraiz T, et al. Human monoamine oxidase enzyme inhibition by coffee and beta-carbolines norharman and harman isolated from coffee. *Life Sci.* 2006 Jan 18;78(8):795-802.

[2]. Lee HW, et al. Potent Selective Inhibition of Monoamine Oxidase A by Alternariol Monomethyl Ether Isolated from *Alternaria brassicae*. *J Microbiol Biotechnol.* 2017 Feb 28;27(2):316-320.

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

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