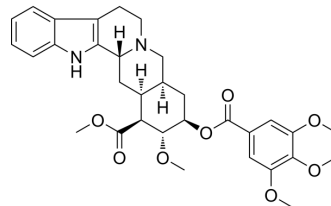


Deserpidine

Cat. No.:	HY-107339		
CAS No.:	131-01-1		
Molecular Formula:	C ₃₂ H ₃₈ N ₂ O ₈		
Molecular Weight:	578.65		
Target:	Angiotensin-converting Enzyme (ACE)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (172.82 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		1.7282 mL	8.6408 mL	17.2816 mL
		5 mM		0.3456 mL	1.7282 mL	3.4563 mL
10 mM			0.1728 mL	0.8641 mL	1.7282 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.32 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.32 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Deserpidine (Harmony) is an alkaloid isolated from the root of <i>Rauwolfia canescens</i> related to Reserpine. Deserpidine is used as an antihypertensive agent and a tranquilizer. Deserpidine is a competitive angiotensin converting enzyme (ACE) inhibitor. Deserpidine also decreases angiotensin II-induced aldosterone secretion by the adrenal cortex ^{[1][2][3]} .
IC ₅₀ & Target	Angiotensin converting enzyme (ACE) ^[3]
In Vitro	Deserpidine is an effective ganglionic blocking agent, which differs from Reserpine only by the absence of a methoxy group at C-11. Deserpidine has been used in the treatment of hypertension and psychosis. In addition, Deserpidine appears to act as a controller of other cardiac disorders ^{[1][2]} . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Varchi G, et al. Synthesis of deserpidine from reserpine. J Nat Prod. 2005 Nov;68(11):1629-31.
- [2]. Zhang H, et al. Liquid chromatography/tandem mass spectrometry method for the quantification of deserpidine in human plasma: Application to a pharmacokinetic study. J Chromatogr B Analyt Technol Biomed Life Sci. 2009 Oct 1;877(27):3221-5.
- [3]. Fulton SC, et al. Comparison of the effectiveness of deserpidine, reserpine, and alpha-methyltyrosine on brain biogenic amines. Fed Proc. 1976 Dec;35(14):2558-62.
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Caution: Product has not been fully validated for medical applications. For research use only.

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