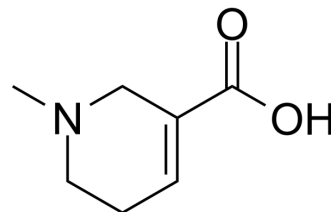


Arecaidine

Cat. No.:	HY-N2368
CAS No.:	499-04-7
Molecular Formula:	C ₇ H ₁₁ NO ₂
Molecular Weight:	141.17
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 250 mg/mL (1770.91 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	7.0837 mL	35.4183 mL	70.8366 mL
				5 mM	1.4167 mL	7.0837 mL	14.1673 mL
				10 mM	0.7084 mL	3.5418 mL	7.0837 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (708.37 mM); Clear solution; Need ultrasonic						

BIOLOGICAL ACTIVITY

Description	Arecaidine, a pyridine alkaloid, is a potent GABA uptake inhibitor. Arecaidine is a substrate of H ⁺ -coupled amino acid transporter 1 (PAT1, SLC36A1) and competitively inhibits L-proline uptake ^{[1][2]} .
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CUSTOMER VALIDATION

- Int J Mol Sci. 2023 Mar 28.

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REFERENCES

[1]. D Lodge, et al. Effects of the Areca nut constituents arecaidine and guvacine on the action of GABA in the cat central nervous system. Brain Res. 1977 Nov 18;136(3):513-22.

[2]. Valerie Voigt, et al. Transport of the areca nut alkaloid arecaidine by the human proton-coupled amino acid transporter 1 (hPAT1). J Pharm Pharmacol. 2013 Apr;65(4):582-90.

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

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