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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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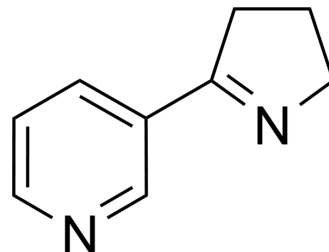
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Myosmine

Cat. No.:	HY-W001909		
CAS No.:	532-12-7		
Molecular Formula:	C ₉ H ₁₀ N ₂		
Molecular Weight:	146.19		
Target:	nAChR		
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (684.04 mM; Need ultrasonic)

H₂O : ≥ 100 mg/mL (684.04 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
	Concentration				
	1 mM		6.8404 mL	34.2021 mL	68.4041 mL
	5 mM		1.3681 mL	6.8404 mL	13.6808 mL
	10 mM		0.6840 mL	3.4202 mL	6.8404 mL

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

BIOLOGICAL ACTIVITY

Description

Myosmine, a specific tobacco alkaloid in nuts and nut products, has low affinity for α4β2 nicotinic acetylcholinergic receptors (nAChR) with a K_i of 3300 nM^{[1][2]}.

IC₅₀ & Target

K_i: 3300 nM (α4β2 nAChR) and >10 μM (AT1)^[1]

In Vitro

Myosmine is easily nitrosated, yielding 4-hydroxy-1-(3-pyridyl)-1-butanone (HPB) and the esophageal tobacco carcinogen N'-nitrosornicotine^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Myosmine (0.001, 0.005, 0.5, and 50 micromol/kg; oral; in Wistar rats) causes a higher percentage of the radioactivity excreted in urine (86.2% and 88.9%) at the two lower doses (0.001 and 0.005 micromol/kg), as compared with the higher doses (0.5 and 50 micromol/kg), where only 77.8% and 75.4% of the dose is found in urine^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. G Ferretti, et al. Binding of Nicotine and Homoazanicotine Analogues at Neuronal Nicotinic Acetylcholinergic (nACh) Receptors. *Bioorg Med Chem Lett*. 2003 Feb 24;13(4):733-5.

[2]. Wolfgang Zwicknpflug, et al. Metabolism of Myosmine in Wistar Rats. *Drug Metab Dispos*. 2005 Nov;33(11):1648-56.

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

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