



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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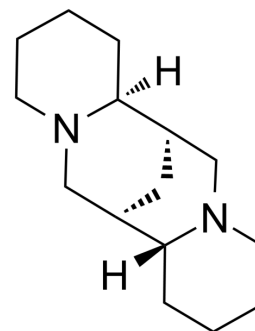
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(+)-Sparteine

Cat. No.:	HY-W008350
CAS No.:	492-08-0
Molecular Formula:	C ₁₅ H ₂₆ N ₂
Molecular Weight:	234.38
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 2.5 mg/mL (10.67 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.2666 mL	21.3329 mL	42.6658 mL
	5 mM	0.8533 mL	4.2666 mL	8.5332 mL
	10 mM	0.4267 mL	2.1333 mL	4.2666 mL

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

BIOLOGICAL ACTIVITY

Description

(+)-Sparteine is a natural alkaloid acting as a ganglionic blocking agent. (+)-Sparteine competitively blocks nicotinic ACh receptor in the neurons.

IC₅₀ & Target

AChR^[1]

In Vitro

(+)-Sparteine (2 μM) reduces the ACh-induced current caused by activation of nicotinic AChRs in a voltage-independent manner. (+)-Sparteine (5, 10 μM) reduces the amplitude of the excitatory postsynaptic current (EPSC) and the time constant of the EPSC decay^[1].

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

CUSTOMER VALIDATION

- J Ethnopharmacol. 2023 Sep 19;117192.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Voitenko S, et al. Effect of (+)-sparteine on nicotinic acetylcholine receptors in the neurons of rat superior cervical ganglion. Mol Pharmacol. 1991 Aug;40(2):180-5.

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

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