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Produktinformation



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Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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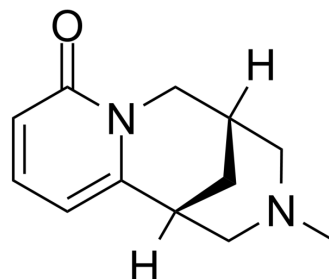
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N-Methylcytisine

Cat. No.:	HY-N0443
CAS No.:	486-86-2
Molecular Formula:	C ₁₂ H ₁₆ N ₂ O
Molecular Weight:	204.27
Target:	nAChR
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

DMSO : 120 mg/mL (587.46 mM; Need ultrasonic)
H₂O : 100 mg/mL (489.55 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.8955 mL	24.4774 mL	48.9548 mL
	5 mM	0.9791 mL	4.8955 mL	9.7910 mL
	10 mM	0.4895 mL	2.4477 mL	4.8955 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: ≥ 2.08 mg/mL (10.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (10.18 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (10.18 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Methylcytisine (Caulophylline), a tricyclic quinolizidine alkaloid, exerts hypoglycaemic, analgesic and anti-inflammatory activities. N-methylcytisine is a selective ligand of nicotinic receptors of acetylcholine in the central nervous system and has a high affinity (K_d = 50 nM) to nicotinic acetylcholine receptors (nAChR) from squid optical ganglia^{[1][2]}.

IC₅₀ & Target

kd: 50 nM (nicotinic acetylcholine receptors)^[2]

CUSTOMER VALIDATION

- J Ethnopharmacol. 2021 Nov 2;114796.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Jiao YF, et al. N-Methylcytisine Ameliorates Dextran-Sulfate-Sodium-Induced Colitis in Mice by Inhibiting the Inflammatory Response. *Molecules*. 2018 Feb 25;23(3). pii: E510.
- [2]. Pliashkevich IuG, et al. [N-methylcytisine--a selective ligand of nicotinic receptors of acetylcholine in the CNS]. *Biull Eksp Biol Med*. 1987 Dec;104(12):690-2.
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Caution: Product has not been fully validated for medical applications. For research use only.

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