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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

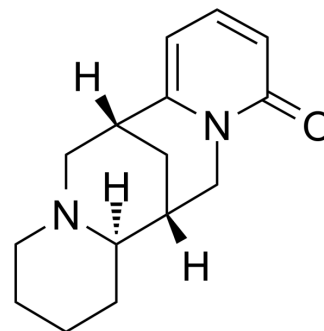
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anagryne

Cat. No.:	HY-121027
CAS No.:	486-89-5
Molecular Formula:	C ₁₅ H ₂₀ N ₂ O
Molecular Weight:	244.33
Target:	mAChR; nAChR
Pathway:	GPCR/G Protein; Neuronal Signaling; Membrane Transporter/Ion Channel
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (102.32 mM; Need ultrasonic)
H₂O : 25 mg/mL (102.32 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.0928 mL	20.4641 mL	40.9283 mL
	5 mM	0.8186 mL	4.0928 mL	8.1857 mL
	10 mM	0.4093 mL	2.0464 mL	4.0928 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 mg/mL (8.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (8.19 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% saline
Solubility: ≥ 2 mg/mL (8.19 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Anagryne ((-)-Anagryne) is a quinolizidine alkaloid that has been found in *Lupinus albus*. Anagryne binds to muscarinic and nicotinic acetylcholine receptors with IC₅₀ values of 132 and 2096 μM respectively. Anagryne is a potent and effective desensitizer of nAChR, and Anagryne can directly, without metabolism, desensitize nAChR^{[1][2][3]}.

In Vitro

Anagryne acts as a partial agonist in both cell lines with EC₅₀ values of 4.2 and 231 μM in SH-SY5Y and TE-671 cells, respectively. Anagryne is a desensitizer of nAChR with DC₅₀ values of 6.9 and 139 μM in SH-SY5Y and TE-671 cells, respectively^[3].

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

REFERENCES

- [1]. Green BT, et al. Anagyrine desensitization of peripheral nicotinic acetylcholine receptors. A potential biomarker of quinolizidine alkaloid teratogenesis in cattle. *Res Vet Sci.* 2017 Dec;115:195-200.
- [2]. Schmeller T, et al. Binding of quinolizidine alkaloids to nicotinic and muscarinic acetylcholine receptors. *J Nat Prod.* 1994 Sep;57(9):1316-9.
- [3]. Matsuda, K., et al. Nematicidal activities of (-)-N-methylcytisine and (-)-anagyrine from *Sophora flavescens* against pine wood nematodes. *Agr. Biol. Chem.* 53(8), 2287-2288 (1989).
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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA