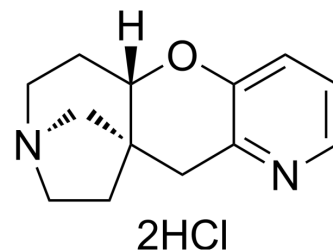


Dianicline dihydrochloride

Cat. No.:	HY-110241
CAS No.:	292634-27-6
Molecular Formula:	C ₁₃ H ₁₈ Cl ₂ N ₂ O
Molecular Weight:	289.2
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (86.45 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.4578 mL	17.2891 mL	34.5781 mL
		5 mM		0.6916 mL	3.4578 mL	6.9156 mL
10 mM		0.3458 mL	1.7289 mL	3.4578 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.64 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.64 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Dianicline dihydrochloride is a α4β2 nicotinic acetylcholine receptor partial agonist, a class of agents that includes varenicline and cytisine for smoking cessation. Dianicline dihydrochloride increases cessation rates in a dose-dependent manner ^[1] .
--------------------	---

REFERENCES

[1]. Tonstad S, et al. Dianicline, a novel α4β2 nicotinic acetylcholine receptor partial agonist, for smoking cessation: a randomized placebo-controlled clinical trial. Nicotine

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