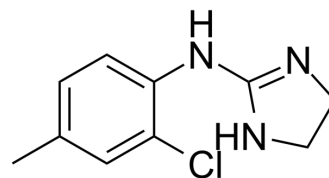


Tolonidine

Cat. No.:	HY-B1800		
CAS No.:	4201-22-3		
Molecular Formula:	C ₁₀ H ₁₂ ClN ₃		
Molecular Weight:	209.68		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (476.92 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		4.7692 mL	23.8459 mL	47.6917 mL
		5 mM		0.9538 mL	4.7692 mL	9.5383 mL
	10 mM		0.4769 mL	2.3846 mL	4.7692 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.92 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.92 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.92 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Tolonidine is a derivative of imidazoline. Tolonidine is orally active and has been shown to possess hypotensive and antihypertensive properties ^[1] .
In Vivo	In the anesthetized dog, tolonidine administered i.v. decreases the amplitude of ventricular contractions, reduces aortic blood flow and increases peripheral vascular resistances ^[1] . In the bivagotomized pithed rat, tolonidine induces a long-lasting increase in blood pressure with no secondary hypotension, thus suggesting peripheral sympathomimetic properties ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cosnier D, et al. Pharmacological properties of 2-(2-chloro-p-toluidino)-2-imidazoline-nitrate (tolonidine), a new antihypertensive agent. II. Action on cardiac contraction, circulatory parameters, autonomic receptors and diuresis. *Arzneimittelforschung*.

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

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