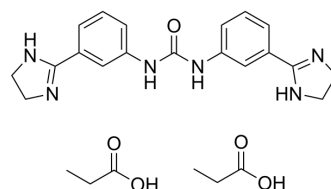


Imidocarb dipropionate

Cat. No.:	HY-107496
CAS No.:	55750-06-6
Molecular Formula:	C ₂₅ H ₃₂ N ₆ O ₅
Molecular Weight:	496.56
Target:	Parasite; Antibiotic
Pathway:	Anti-infection
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 : 10.42 mg/mL (20.98 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.0139 mL	10.0693 mL	20.1386 mL
		5 mM	0.4028 mL	2.0139 mL	4.0277 mL
		10 mM	0.2014 mL	1.0069 mL	2.0139 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: ≥ 1.04 mg/mL (2.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.04 mg/mL (2.09 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.04 mg/mL (2.09 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	Imidocarb dipropionate is a potent antiprotozoal agent. Imidocarb dipropionate is active against the parasite <i>B. bovis</i> with an IC ₅₀ of 87 μg/mL ^[1] .
IC₅₀ & Target	IC ₅₀ : 87 μg/mL (Parasite <i>B. bovis</i>) ^[1]
In Vivo	Imidocarb dipropionate is administered by subcutaneous or intramuscular injection to horses (3.4 mg/kg bw) and cattle (2.1 mg/kg bw). In horses, up to 4 doses may be given at 72-hour intervals. A second dose may be given 2 weeks after the first ^[1] . Imidocarb dipropionate is also used in sheep (1. 2mg/kg bw) for the treatment of babesiosis and anaplasmosis ^[1] . The acute oral LD ₅₀ value of Imidocarb dipropionate is in the range of 646 to 723 mg/kg bw in mice ^[1] .

The acute oral LD₅₀ value of Imidocarb is in the range of 454 to 1251 mg/kg bw in rats^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rodriguez RI, et al. In vitro responsiveness of Babesia bovis to Imidocarb dipropionate and the selection of a drug-adapted line. Vet Parasitol. 1996 Mar;62(1-2):35-41.

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