



# SZABO SCANDIC

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## Produktinformation



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Diagnostik & molekulare Diagnostik



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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

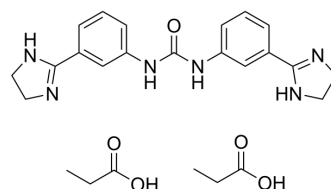
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## Imidocarb dipropionate

<b>Cat. No.:</b>	HY-107496
<b>CAS No.:</b>	55750-06-6
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>32</sub> N <sub>6</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	496.56
<b>Target:</b>	Parasite; Antibiotic
<b>Pathway:</b>	Anti-infection
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 10.42 mg/mL (20.98 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1.04 mg/mL (2.09 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.04 mg/mL (2.09 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 1.04 mg/mL (2.09 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	Imidocarb dipropionate is a potent antiprotozoal agent. Imidocarb dipropionate is active against the parasite <i>B. bovis</i> with an IC <sub>50</sub> of 87 μg/mL <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 87 μg/mL (Parasite <i>B. bovis</i> ) <sup>[1]</sup>
<b>In Vivo</b>	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 <sup>[1]</sup> . Imidocarb dipropionate is also used in sheep (1. 2mg/kg bw) for the treatment of babesiosis and anaplasmosis <sup>[1]</sup> . The acute oral LD <sub>50</sub> value of Imidocarb dipropionate is in the range of 646 to 723 mg/kg bw in mice <sup>[1]</sup> .

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The acute oral LD<sub>50</sub> value of Imidocarb is in the range of 454 to 1251 mg/kg bw in rats<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[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.

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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](mailto:tech@MedChemExpress.com)

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