

Product data sheet



MedKoo Cat#: 574144 Name: Imidocarb propionate CAS: 55750-06-6 (propionate) Chemical Formula: C ₂₅ H ₃₂ N ₆ O ₅ Molecular Weight: 496.568		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

Imidocarb propionate is an antiprotozoal agent that eliminates blood parasites. Formulations containing imidocarb have been used in the veterinary treatment of babesiosis and other protozoal infections.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under “QC And Documents” section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMF	1.0	2.01
DMSO	16.81	33.85
Ethanol	1.0	2.01
PBS (pH 7.2)	10.0	20.14

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.01 mL	10.07 mL	20.14 mL
5 mM	0.40 mL	2.01 mL	4.03 mL
10 mM	0.20 mL	1.01 mL	2.01 mL
50 mM	0.04 mL	0.20 mL	0.40 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of “Calculator”

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

TBD

In vivo study

1. Schwint ON, Ueti MW, Palmer GH, Kappmeyer LS, Hines MT, Cordes RT, Knowles DP, Scoles GA. Imidocarb dipropionate clears persistent *Babesia caballi* infection with elimination of transmission potential. Antimicrob Agents Chemother. 2009 Oct;53(10):4327-32. doi: 10.1128/AAC.00404-09. Epub 2009 Jul 20. PMID: 19620328; PMCID: PMC2764191.

7. Bioactivity

Biological target:

Imidocarb dipropionate is a potent antiprotozoal agent. Imidocarb dipropionate is active against the parasite *B. bovis* with an IC₅₀ of 87 µg/mL.

In vitro activity

TBD

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In vivo activity

These findings establish that imidocarb dipropionate treatment clears *B. caballi* infection with confirmation of lack of transmission risk either by direct blood transfer or a high tick burden.

Reference: Antimicrob Agents Chemother. 2009 Oct;53(10):4327-32. <https://pubmed.ncbi.nlm.nih.gov/19620328/>

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.