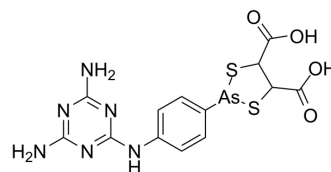


## Melarsonyl

Cat. No.:	HY-U00295
CAS No.:	37526-80-0
Molecular Formula:	C <sub>13</sub> H <sub>13</sub> AsN <sub>6</sub> O <sub>4</sub> S <sub>2</sub>
Molecular Weight:	456.33
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Melarsonyl (Melarsonic acid) is an anthelmintic agent which can inhibit parasite potently.
IC <sub>50</sub> & Target	Parasite <sup>[1]</sup>
In Vivo	For acute infections produced by <i>T. brucei brucei</i> GVR, Potassium Melarsonyl exhibits trypanocidal activities. Potassium Melarsonyl (Trimelarsan) cures less than 50% mice at a dose of 25 μmol/kg for 4 consecutive days. At 60 μmol/kg, it cures all the mice in a chronic-infection model <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### PROTOCOL

Animal Administration <sup>[1]</sup>	Mice <sup>[1]</sup> Mice are infected i.p. with 10 <sup>4</sup> bloodstream trypomastigotes taken from an infected mouse and suspended in 0.1 mL of phosphate-buffered saline, pH 7.2. The infection is allowed to develop for 24 h before treatment is begun. Ten infected mice are used as controls and received only excipient, 1% carboxymethylcellulose by the i.p. route in a 0.1 ml volume. The other mice receive a single dose of the diluted or suspended Potassium Melarsonyl (20, 40, 60 μmol/kg) in the same manner. Six mice are used per dose. The trypanocidal activity is evaluated by the mean survival time of treated mice for each dose <sup>[1]</sup> .  MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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### REFERENCES

[1]. Loiseau PM, et al. Contribution of dithiol ligands to in vitro and in vivo trypanocidal activities of dithiaarsanes and investigation of ligand exchange in an aqueous solution. *Antimicrob Agents Chemother.* 2000 Nov;44(11):2954-61.

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

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