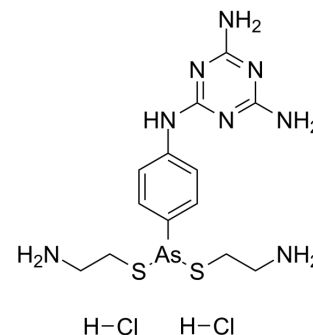


## Melarsomine dihydrochloride

|                           |   |
|---------------------------|---|
| <b>Cat. No.:</b>          | HY-138502A  |
| <b>CAS No.:</b>           | 89141-50-4  |
| <b>Molecular Formula:</b> | C <sub>13</sub> H <sub>23</sub> AsCl <sub>2</sub> N <sub>8</sub> S <sub>2</sub>           |
| <b>Molecular Weight:</b>  | 501.33  |
| <b>Target:</b>            | Parasite  |
| <b>Pathway:</b>           | Anti-infection  |
| <b>Storage:</b>           | Please store the product under the recommended conditions in the Certificate of Analysis. |



### BIOLOGICAL ACTIVITY

|                    |  |
|--------------------|--|
| <b>Description</b> | Melarsomine dihydrochloride is a trivalent arsenical compound used as an adulticide. Melarsomine dihydrochloride can be used for the reserach of canine heartworm disease and other helminth infections <sup>[1][2]</sup> .  |
| <b>In Vivo</b>     | Melarsomine (2.5 mg/kg; deep i.m. injection) combined with Doramectin managed to clear the <i>D. repens</i> infection in dogs <sup>[1]</sup> .<br>Melarsomine (0.25 mg/kg; deep i.m. injection) can cure <i>T. evansi</i> infection in camels <sup>[2]</sup> .<br>Melarsomine (0.5 mg/kg; deep i.m. injection) can cure <i>T. evansi</i> infection in dairy cattle in Thailand <sup>[2]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

- [1]. Baneth G, et, al. *Dirofilaria repens* infection in a dog: diagnosis and treatment with melarsomine and doramectin. *Vet Parasitol.* 2002 Apr 30;105(2):173-8.
- [2]. Desquesnes M, et, al. An evaluation of melarsomine hydrochloride efficacy for parasitological cure in experimental infection of dairy cattle with *Trypanosoma evansi* in Thailand. *Parasitology.* 2011 Aug;138(9):1134-42.

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

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