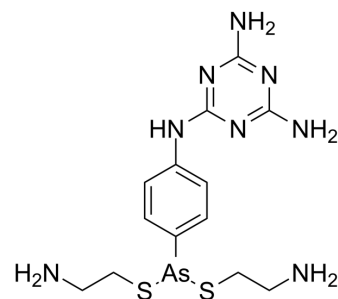


Melarsomine

Cat. No.:	HY-138502
CAS No.:	128470-15-5
Molecular Formula:	C ₁₃ H ₂₁ AsN ₈ S ₂
Molecular Weight:	428.41
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Melarsomine is a trivalent arsenical compound used as an adulticide. Melarsomine can be used for the reserach of canine heartworm disease and other helminth infections ^{[1][2]} .
In Vivo	Melarsomine (2.5 mg/kg; deep i.m. injection) combined with Doramectin managed to clear the <i>D. repens</i> infection in dogs ^[1] . Melarsomine (0.25 mg/kg; deep i.m. injection) can cure <i>T. evansi</i> infection in camels ^[2] . Melarsomine (0.5 mg/kg; deep i.m. injection) can cure <i>T. evansi</i> infection in dairy cattle in Thailand ^[2] . 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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