

Product Data Sheet

Product Name: Selamectin

Cat. No.: GC32174

Chemical Properties

Cas. No. 220119-17-5

SMILES O[C@@]12[C@@]3([H])/C(C(C)=C[C@@]1([H])C(O[C@]4([H])C[C@]5(O[C@@](C/C=C(C(C)/[C@@H](O[C@@]6([H])C[C@@H]([C@@H](O)[C@H](C)O6)OC)[C@@H](C)/C=C/C=C2\CO3)([H])C4)O[C@H](C7CCCCC7)[C@@H](C)CC5)=O)=N\O

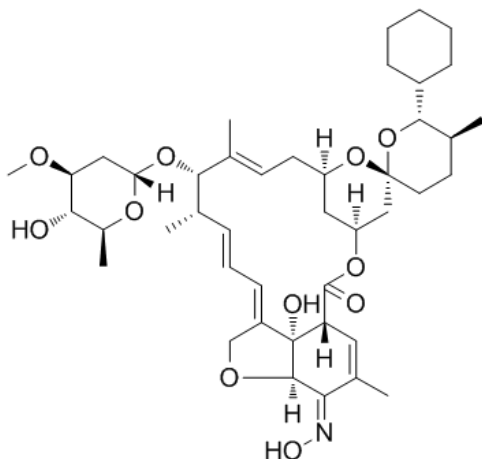
Formula $C_{43}H_{63}NO_{11}$ M.Wt 769.96

Solubility DMSO : 100 mg/mL (129.88 mM) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Protocol

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

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**Animal
experiment:**

The cats are weighed on Days-2, 29 and 58 to calculate the dosing. Cats in group 1 (control group) remain untreated. On Day 0, the cats in group 3 are treated with fluralaner at the minimum recommending label dose of 40.0 mg per kg body weight. On Days 0, 30 and 60, the cats in group 2 are treated with the new spot-on formulation at the minimum recommending label dose of 1.0 mg/kg sarolaner and 6.0 mg/kg Selamectin. The cats are observed at different time points after treatment for possible adverse reactions to treatment. On Day 0, administration site observations are performed on all cats 30 min (± 5 min), 3 h (± 15 min) and 24 h (± 1 h) and again on Days 3 and 5 after treatment[1].

References:

- [1]. Thomas Geurden, et al. Comparative efficacy of a new spot-on combination product containing selamectin and sarolaner (Stronghold Plus) versus fluralaner (Bravecto) against induced infestations with Ixodes ricinus ticks on cats. Published online 2017 Jun 29.
- [2]. Maria de Fátima Chicarino Varajao Moraes-da-Silva, et al. Selamectin for the prevention of canine Dirofilaria immitis infection: field efficacy in client-owned dogs in a high risk area. Published online 2016 Jul 22.

Background

Selamectin is an anthelmintic which can be used on dogs and cats.

Three monthly treatments with Selamectin/sarolaner provide high and consistent efficacy against I. ricinus for the entire duration of the study period. The percentage efficacy against I. ricinus is numerically higher in the Selamectin/sarolaner treating group than in the fluralaner-treating group on Days 56, 84 and 91[1]. All dogs are tested negative by both tests after receiving topical treatment with Selamectin monthly for 36 months[2].

- [1]. Thomas Geurden, et al. Comparative efficacy of a new spot-on combination product containing selamectin and sarolaner (Stronghold®Plus) versus fluralaner (Bravecto®) against induced infestations with Ixodes ricinus ticks on cats. Published online 2017 Jun 29. [2]. Maria de Fátima Chicarino Varajao Moraes-da-Silva, et al. Selamectin for the prevention of canine Dirofilaria immitis

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