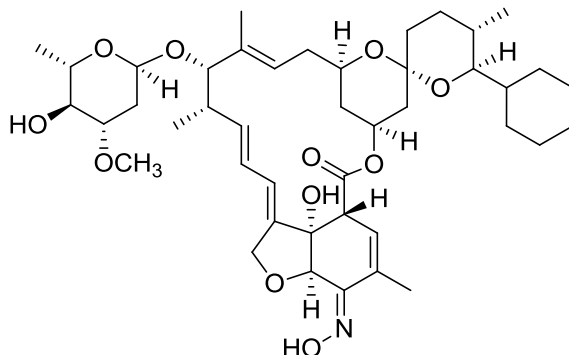


Selamectin

Code No.: **BIA-S1530**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 220119-17-5
Molecular Formula	: C ₄₃ H ₆₃ NO ₁₁
Molecular Weight	: 770.0
Source	: Semi-synthetic
Appearance	: White solid
Purity	: >99% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Selamectin is a semi-synthetic avermectin derivative prepared by selective hydrolysis and oximation of doramectin. Selamectin is a potent nematocide used for the treatment of endo- and exo- parasites of domestic animals, notably cats and dogs. Like the other milbemycin/avermectins, selamectin selectively binds to parasite glutamate-gated chloride ion channels and disrupts neurotransmission leading to paralysis and death of the parasite.

References

1. Avermectins and flea control: structure-activity relationships and the selection of selamectin for development as an endectocide for companion animals. Banks B.J. Bioorg Med Chem. 2000, 8, 2017.

Updated: 2 December 2014