

Product Name:	Selamectin
Product Number:	S068
CAS Number:	220119-17-5
Molecular Formula:	$C_{43}H_{63}NO_{11}$
Molecular Weight:	770.0
Appearance:	White solid
Storage Conditions:	-20°C
Description:	<p>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.</p> <p>Selamectin is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	Selamectin selectively binds to parasite glutamate-gated chloride ion channels and disrupts neurotransmission leading to paralysis and death of the parasite.
References:	<p>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.</p>