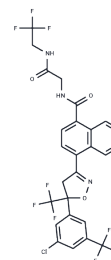


Afoxolaner

Chemical Properties

CAS No. :	1093861-60-9
Formula:	C ₂₆ H ₁₇ ClF ₉ N ₃ O ₃
Molecular Weight:	625.87
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Afoxolaner is an isoxazoline insecticide/acaricide against <i>Ixodes scapularis</i> in dogs. Afoxolaner acts on the insect GABA and glutamate receptors, inhibiting GABA & glutamate-regulated uptake of chloride ions, resulting in excess neuronal stimulation and death of the arthropod.
Targets(IC50)	Chloride channel,GABA Receptor,Parasite
In vivo	A single oral administration of afoxolaner at a dose near the minimum effective (2.5mg/kg) eradicated existing <i>I. scapularis</i> tick infestations and managed weekly re-infestations effectively. Efficiencies ranged from 98% to 100% up to Day 23 and remained at 94% on Day 30 [1].

Solubility Information

Solubility	DMSO: ≥ 250 mg/mL (399.44 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5978 mL	7.9889 mL	15.9778 mL
5 mM	0.3196 mL	1.5978 mL	3.1956 mL
10 mM	0.1598 mL	0.7989 mL	1.5978 mL
50 mM	0.032 mL	0.1598 mL	0.3196 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Mitchell EB, et al. Efficacy of afoxolaner against *Ixodes scapularis* ticks in dogs. *Vet Parasitol.* 2014 Apr 2;201(3-4): 223-5.

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