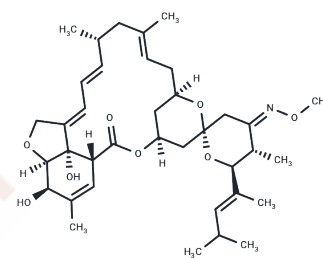


Moxidectin

Chemical Properties

CAS No. :	113507-06-5
Formula:	C ₃₇ H ₅₃ N ₁ O ₈
Molecular Weight:	639.82
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Moxidectin (CL301423) is an anthelmintic drug which kills parasitic worms, and is used for the prevention and control of heartworm and intestinal worms. It can be found in treatments prescribed for animals such as dogs, cats, horses, cattle and sheep. Application methods for moxidectin vary by treatment, and include oral, topical, and injectable solutions. Cydectin Pour On is a trade name for a formulation for use on cattle and red deer.
Targets(IC50)	GluCl, BCRP, Antibiotic, Parasite, P-gp

Solubility Information

Solubility	DMSO: 250 mg/mL (390.73 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.13 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5629 mL	7.8147 mL	15.6294 mL
5 mM	0.3126 mL	1.5629 mL	3.1259 mL
10 mM	0.1563 mL	0.7815 mL	1.5629 mL
50 mM	0.0313 mL	0.1563 mL	0.3126 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Mackintosh CG, et al. Vet Parasitol. 2014 Jan 17;199(1-2):81-92.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481