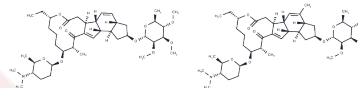


Spinosad

Chemical Properties

CAS No. :	168316-95-8
Formula:	C ₄₁ H ₆₅ N ₁₀ O ₁₀
Molecular Weight:	731.96
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	Spinosad is a naturally-occurring insecticide found in the the soil bacterium <i>S. spinosa</i> . It is a mixture of the macrocyclic lactones spinosyn A and spinosyn D, which act as agonists of insect nicotinic acetylcholinesterase receptors (nAChRs).
Targets(IC50)	Others,AChR

Solubility Information

Solubility	DMSO: 2.22 mg/mL (3.03 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: 1 mg/mL (1.37 mM),Sonication is recommended. 10% DMSO+90% Saline: 0.88 mg/mL (1.2 mM),Solution. <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	1.3662 mL	6.831 mL	13.6619 mL
5 mM	0.2732 mL	1.3662 mL	2.7324 mL
10 mM	0.1366 mL	0.6831 mL	1.3662 mL
50 mM	0.0273 mL	0.1366 mL	0.2732 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

Paul L McCormack. Spinosad: in pediculosis capitis. Am J Clin Dermatol. 2011 Oct 1;12(5):349-53.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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