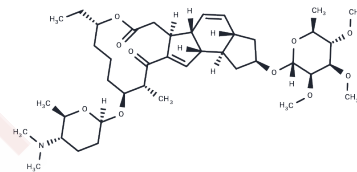


## Spinosyn A

## Chemical Properties

CAS No. :	131929-60-7
Formula:	C <sub>41</sub> H <sub>65</sub> NO <sub>10</sub>
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	Spinosyn A is a polyketide-derived macrolide produced by <i>Saccharopolyspora spinosa</i> and is an active ingredient in several commercial insecticides.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 10 mg/mL (13.66 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## 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

- D T Vo, et al. Insect nicotinic acetylcholine receptor agonists as flea adulticides in small animals. *J Vet Pharmacol Ther.* 2010 Aug;33(4):315-22.
- Hak Joong Kim, et al. Biosynthesis of spinosyn in *Saccharopolyspora spinosa*: synthesis of permethylated rhamnose and characterization of the functions of SpnH, SpnI, and SpnK. *J Am Chem Soc.* 2010 Mar 10;132(9):2901-3.

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