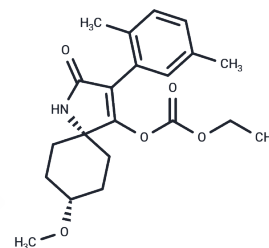


Spirotetramat

Chemical Properties

CAS No. :	203313-25-1
Formula:	C ₂₁ H ₂₇ N ₀₅
Molecular Weight:	373.44
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	Spirotetramat is an insecticide that demonstrates efficacy against <i>C. pyrinympha</i> in vitro (LC ₅₀ = 6.51-12.53 mg AI/L) and achieves a 99.2% mortality rate in <i>C. pyrinympha</i> within European pear (<i>P. communis</i>) fields 15 days post-application at a dosage of 27 g/hectare. Additionally, it reduces embryonic viability and nymph survival in <i>O. insidiosus</i> . Spirotetramat exhibits aquatic toxicity by altering protein levels in organisms, specifically by increasing glutathione peroxidase (GPX) and superoxide dismutase (SOD) levels, decreasing malondialdehyde (MDA) levels, and causing lethality in Chinese toad (<i>B. gargarizans</i>) tadpoles (LC ₅₀ = 6.98 mg/L). Its formulations are utilized in agricultural insect control. Spirotetramat is marketed exclusively for research and analytical applications, formulated for controlled laboratory settings without the availability of bulk sizes.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6778 mL	13.389 mL	26.7781 mL
5 mM	0.5356 mL	2.6778 mL	5.3556 mL
10 mM	0.2678 mL	1.3389 mL	2.6778 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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