

Tetradecyl acetate

Chemical Properties

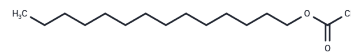
CAS No. : 638-59-5

Formula: C₁₆H₃₂O₂

Molecular Weight: 256.42

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tetradecyl acetate, a sex pheromone produced by <i>Ctenopseustis obliquana</i> (females), disrupts the mating of pest species.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (194.99 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 (7.8 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	3.8999 mL	19.4993 mL	38.9985 mL
5 mM	0.780 mL	3.8999 mL	7.7997 mL
10 mM	0.390 mL	1.9499 mL	3.8999 mL
50 mM	0.078 mL	0.390 mL	0.780 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

David M Suckling, et al. Development of single-dispenser pheromone suppression of *Epiphyas postvittana*, *Planotortrix octo* and *Ctenopseustis obliquana* in New Zealand stone fruit orchards. *Pest Manag Sci.* 2012 Jun;68 (6):928-34.

S P Foster, et al. Sex pheromone differences in populations of the brownheaded leafroller, *Ctenopseustis obliquana*. *J Chem Ecol.* 1987 Mar;13(3):623-9.

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