

Bombykol

Chemical Properties

CAS No. : 765-17-3

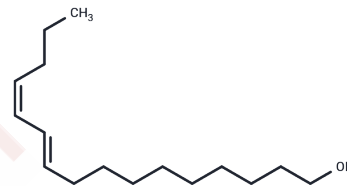
Formula: C₁₆H₃₀O

Molecular Weight: 238.41

Store at low temperature

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	Bombykol (Isobombycol) is an insect sex pheromone that is produced as a sex attractant for the females of <i>Bombyx mori</i> .
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 90 mg/mL (377.5 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (13.84 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	4.1945 mL	20.9723 mL	41.9445 mL
5 mM	0.8389 mL	4.1945 mL	8.3889 mL
10 mM	0.4194 mL	2.0972 mL	4.1945 mL
50 mM	0.0839 mL	0.4194 mL	0.8389 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

Yasumasa KUWAHARA, et al. Flight Time of Bombyx mandarina Males to a Pheromone Trap Baited with Bombykol. J-STAGE home/Applied Entomology and Zoology/Volume 19 (1984) Issue 3.

Yasumasa KUWAHARA, et al. Evaluation of Bombykol as the Sex Pheromone of Bombyx mandarina(Lepidoptera : Bombycidae). J-STAGE home/Applied Entomology and Zoology/Volume 19 (1984) Issue 2.

Matsumoto S, et al. Molecular mechanisms underlying sex pheromone production in the silkworm, Bombyx mori: characterization of the molecular components involved in bombykol biosynthesis. J Insect Physiol. 2007 Aug;53(8): 752-9.

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