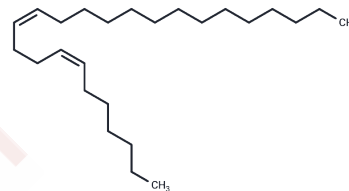


7(Z),11(Z)-Pentacosadiene

Chemical Properties

CAS No. :	127599-39-7
Formula:	C ₂₅ H ₄₈
Molecular Weight:	348.65
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	Unsaturated, long-chain hydrocarbons are found on the cuticles of insects and can act as pheromones. In mature <i>Drosophila melanogaster</i> , certain cuticular hydrocarbons are sexually dimorphic: males synthesize 23- and 25-C monoenes and females produce 27- and 29-C dienes. Each of these lipids plays specific roles in regulating male sexual behavior, with dienes stimulating courtship. 7(Z),11(Z)-Pentacosadiene is a 25-C hydrocarbon that is found in low abundance on cuticles of mature <i>Drosophila</i> females. Depletion of a female-specific elongase (eloF), which leads to an increase in 7(Z),11(Z)-pentacosadiene along with a parallel decrease in 7,11-nonacosadiene, significantly reduces copulation in <i>Drosophila</i> . This raises the possibility that 7(Z),11(Z)-pentacosadiene may act as an anti-aphrodisiac.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 20 mg/mL (57.36 mM),Sonication is recommended. Ethanol: 20 mg/mL (57.36 mM),Sonication is recommended. DMF: 20 mg/mL (57.36 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	2.8682 mL	14.341 mL	28.6821 mL
5 mM	0.5736 mL	2.8682 mL	5.7364 mL
10 mM	0.2868 mL	1.4341 mL	2.8682 mL
50 mM	0.0574 mL	0.2868 mL	0.5736 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

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