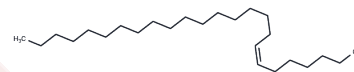


## 7(Z)-Pentacosene

## Chemical Properties

CAS No. :	63623-49-4
Formula:	C <sub>25</sub> H <sub>50</sub>
Molecular Weight:	350.66
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	7(Z)-Pentacosene is an unsaturated cuticular hydrocarbon that acts as a contact sex pheromone in fruit flies. In different species and genotypes of <i>Drosophila</i> , it can be found on both males and females. Pentacosene may stimulate copulation either by itself at high concentrations or when combined with other alkenes. Interestingly, the absolute level of pentacosene increases in <i>Drosophila</i> females immediately after copulation.
Targets(IC50)	Others

## Solubility Information

Solubility	Ethanol: 20 mg/mL (57.04 mM), Sonication is recommended. DMSO: 20 mg/mL (57.04 mM), Sonication is recommended. DMF: 20 mg/mL (57.04 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	2.8518 mL	14.2588 mL	28.5177 mL
5 mM	0.5704 mL	2.8518 mL	5.7035 mL
10 mM	0.2852 mL	1.4259 mL	2.8518 mL
50 mM	0.057 mL	0.2852 mL	0.5704 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.

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