Product Information

7(Z)-Pentacosene
Catalog No. 9000530

CAS Registry No.: 63623-49-4
Formal Name: 7Z-pentacosene
MF: C35H50
FW: 350.7
Purity: ≥98%
Stability: 2 years at +4°C
Supplied as: A solution in hexane

Laboratory Procedures
For long term storage, we suggest that 7(Z)-pentacosene be stored as supplied at -20°C. It should be stable for at least one year.

7(Z)-Pentacosene is supplied as a solution in hexane. To change the solvent, simply evaporate the 7(Z)-pentacosene under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of 7(Z)-pentacosene in these solvents is approximately 20 mg/ml.

If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

7(Z)-Pentacosene is an unsaturated cuticular hydrocarbon that acts as a contact sex pheromone in fruit flies. In different species and genotypes of Drosophila, it can be found on both males and females.1,3 Pentacosene may stimulate copulation either by itself at high concentrations or when combined with other alkenes.1,4 Interestingly, the absolute level of pentacosene increases in Drosophila females immediately after copulation.3

References

Related Products
Tricosene (7Z) - Cat. No. 9000313 • Nonacosadiene (7Z,11Z) - Cat. No. 9000314 • 7Z,11Z-Pentacosadiene - Cat. No. 9000531 • 11-cis Vaccenyl Acetate - Cat. No. 90010101 • Heptacosadiene (7Z,11Z) - Cat. No. 9012567

MATERIAL SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eye, on skin, or on clothing. Wash thoroughly after handling. This information contains, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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