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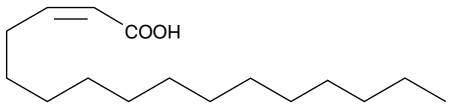
Product Information

Δ^2-*cis*-Hexadecenoic Acid

Item No. 11133

CAS Registry No.: 2825-68-5
Formal Name: 2-hexadecenoic acid
MF: $C_{16}H_{30}O_2$
FW: 254.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that Δ^2-*cis*-hexadecenoic acid be stored as supplied at -20°C. It should be stable for at least two years.

Δ^2-*cis*-Hexadecenoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the Δ^2-*cis*-hexadecenoic acid in the solvent of choice. Δ^2-*cis*-Hexadecenoic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of Δ^2-*cis*-hexadecenoic acid in these solvents is approximately 30 mg/ml.

Δ^2-*cis*-Hexadecenoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, Δ^2-*cis*-hexadecenoic acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Δ^2-*cis*-Hexadecenoic acid has a solubility of approximately 0.25 mg/ml in a 1:7 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

One of the first organisms in which quorum sensing was observed were Myxobacteria, a group of gram-negative bacteria, found mainly in soil and also common to marine and freshwater systems. The cellular membranes of autotrophic bacteria contain mono-unsaturated fatty acids. The specific composition and abundance of membrane fatty acids can be used to identify specific genera of bacterial populations in natural environments (*e.g.*, mining lakes, etc.). Δ^2-*cis*-Hexadecenoic acid is an unusual fatty acid unique to some *Myxococcus* species.[1]

Reference

1. Ohlendorf, B., Lorenzen, W., Kehraus, S., *et al.* Myxotyrosides A and B, unusual rhamnosides from *Myxococcus sp.* *J. Nat. Prod.* **72**, 82-86 (2009).

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