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Zuschläge

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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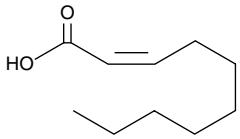
Product Information

cis-2-Decenoic Acid

Item No. 11966

CAS Registry No.: 15790-91-7
Formal Name: 2Z-decenoic acid
MF: $C_{10}H_{18}O_2$
FW: 170.3
Purity: ≥95%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that *cis*-2-decenoic acid be stored as supplied at -20°C. It should be stable for at least one year.

cis-2-Decenoic acid is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of *cis*-2-decenoic acid in ethanol is approximately 20 mg/ml and approximately 30 mg/ml in DMSO and DMF.

cis-2-Decenoic acid is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure 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.

Microorganisms commonly accumulate at interfaces as part of biofilms held together by a matrix of hydrated extracellular polymeric substances.[1] *cis*-2-Decenoic acid is an unsaturated short chain fatty acid that is secreted by *P. aeruginosa* and induces a dispersion response in biofilms formed by gram-negative and gram-positive bacteria, as well as by the yeast *C. albicans*.[2] It effectively promotes dispersion of *P. aeruginosa* biofilms over a concentration range of 1.0 to 10 nM.[2]

References

1. Flemming, H.-C. and Wingender, J. The biofilm matrix. *Nat. Rev. Microbiol.* **8**, 623-633 (2010).
2. Davies, D.G. and Marques, C.N.H. A fatty acid messenger is responsible for inducing dispersion in microbial biofilms. *J. Bacteriol.* **191(5)**, 1393-1403 (2009).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11966

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