



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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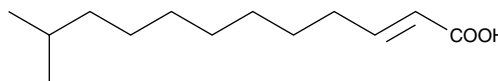
# Product Information



## *trans*- $\Delta^2$ -11-methyl-Dodecenoic Acid

Item No. 10008321

**CAS Registry No.:** 677354-24-4  
**Formal Name:** 11-methyl-2E-dodecenoic acid  
**MF:** C<sub>13</sub>H<sub>24</sub>O<sub>2</sub>  
**FW:** 212.3  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 208 nm



### Laboratory Procedures

For long term storage, we suggest that *trans*- $\Delta^2$ -11-methyl-dodecenoic acid be stored as supplied at -20°C. It should be stable for at least two years.

*trans*- $\Delta^2$ -11-methyl-Dodecenoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the *trans*- $\Delta^2$ -11-methyl-dodecenoic acid in an organic solvent purged with an inert gas. *trans*- $\Delta^2$ -11-methyl-Dodecenoic acid is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of *trans*- $\Delta^2$ -11-methyl-dodecenoic acid in these solvents is approximately 30 mg/ml.

*trans*- $\Delta^2$ -11-methyl-Dodecenoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, *trans*- $\Delta^2$ -11-methyl-dodecenoic acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. *trans*- $\Delta^2$ -11-methyl-Dodecenoic acid has a solubility of approximately 0.5 mg/ml in a 1:6 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Both prokaryotes and eukaryotes depend on small signalling molecules for cell-cell communication. *trans*- $\Delta^2$ -11-methyl-Dodecenoic acid is the conformational isomer of *cis*- $\Delta^2$ -11-methyl-dodecenoic acid, a diffusible signal factor (DSF) in extracellular microbial and fungal communication systems.<sup>1</sup> In a DSF bioassay, the minimum concentration of *cis*- $\Delta^2$ -11-methyl-dodecenoic acid required for induction of a DSF biosensor was about 0.5 μM, which is 200-fold lower than that of *trans*- $\Delta^2$ -11-methyl-dodecenoic acid and 20,000-fold lower than that of the corresponding saturated fatty acid (11-methyl-dodecanoic acid).

### Reference

1. Wang, L.-H., He, Y., Gao, Y., *et al.* A bacterial cell-cell communication signal with cross-kingdom structural analogues. *Mol. Microbiol.* **51**(3), 903-912 (2004).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/10008321](http://www.caymanchem.com/catalog/10008321)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

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