



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



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Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

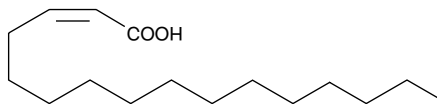
# Product Information



## $\Delta^2$ -*cis*-Hexadecenoic Acid

Item No. 11133

**CAS Registry No.:** 2825-68-5  
**Formal Name:** 2-hexadecenoic acid  
**MF:** C<sub>16</sub>H<sub>30</sub>O<sub>2</sub>  
**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  $\Delta^2$ -*cis*-hexadecenoic acid be stored as supplied at -20°C. It should be stable for at least two years.

$\Delta^2$ -*cis*-Hexadecenoic acid is supplied as a crystalline solid. A stock solution may be made by dissolving the  $\Delta^2$ -*cis*-hexadecenoic acid in the solvent of choice.  $\Delta^2$ -*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  $\Delta^2$ -*cis*-hexadecenoic acid in these solvents is approximately 30 mg/ml.

$\Delta^2$ -*cis*-Hexadecenoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers,  $\Delta^2$ -*cis*-hexadecenoic acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice.  $\Delta^2$ -*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.).  $\Delta^2$ -*cis*-Hexadecenoic acid is an unusual fatty acid unique to some *Myxococcus* species.<sup>1</sup>

### 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).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/11133](http://www.caymanchem.com/catalog/11133)

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

#### 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 eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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### Cayman Chemical

#### Mailing address

1180 E. Ellsworth Road  
Ann Arbor, MI  
48108 USA

#### Phone

(800) 364-9897  
(734) 971-3335

#### Fax

(734) 971-3640

#### E-Mail

[custserv@caymanchem.com](mailto:custserv@caymanchem.com)

#### Web

[www.caymanchem.com](http://www.caymanchem.com)