



# SZABO SCANDIC

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## Produktinformation



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### 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) 

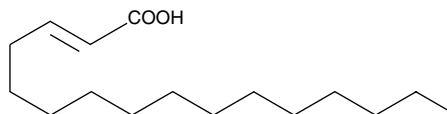
# Product Information



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

Item No. 11132

**CAS Registry No.:** 929-79-3  
**Formal Name:** 2E-hexadecenoic acid  
**MF:** C<sub>16</sub>H<sub>30</sub>O<sub>2</sub>  
**FW:** 254.4  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

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

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

$\Delta^2$ -*trans*-Hexadecenoic acid is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers,  $\Delta^2$ -*trans*-hexadecenoic acid should first be dissolved in ethanol and then diluted with the aqueous buffer of choice.  $\Delta^2$ -*trans*-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.

Formation of *cis* monoenoic acids from unsaturated fatty acids, such as palmitoleic acid (9-*cis*-hexadecenoic acid) from palmitic acid occurs readily in animal tissues.<sup>1</sup>  $\Delta^2$ -*trans*-Hexadecenoic acid is an intermediate formed in the  $\beta$ -oxidation of palmitic acid.<sup>2</sup> In a model meant to simulate gastric ulceration,  $\Delta^2$ -*trans*-hexadecenoic acid at 10 mg/kg significantly inhibits gastric juice secretion in pylorus-ligated rats.<sup>3</sup>

### References

1. Nakano, M. and Fujino, Y. Enzymatic formation of hexadecenoic acid from palmitic acid. *Agr. Biol. Chem.* **39**(3), 707-710 (1975).
2. Jones, J.A. and Blecher, M. Synthesis and characterization of 3-ketohexadecanoic acid-1-14C, DL-3-hydroxyhexadecanoic acid-1-14C, and *trans*-2-hexadecenoic acid-1-14C. *J. Lipid Res.* **7**, 422-426 (1966).
3. Mimura, T., Kohda, I., Maeda, K., *et al.* Inhibitory effects of unsaturated fatty acids of *trans*-2-C10:1 to *trans*-2-C16:1 several C18:n on gastric secretion and experimental ulceration in rats. *J. Pharm. Dyn.* **6**, 527-538 (1983).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/11132](http://www.caymanchem.com/catalog/11132)

**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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### 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

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