



# 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

### 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) 

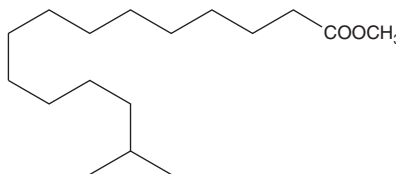
# PRODUCT INFORMATION



## 14-methyl Pentadecanoic Acid methyl ester

Item No. 24813

**CAS Registry No.:** 5129-60-2  
**Formal Name:** 14-methyl-pentadecanoic acid, methyl ester  
**Synonym:** Methyl 14-methylpentadecanoate  
**MF:** C<sub>17</sub>H<sub>34</sub>O<sub>2</sub>  
**FW:** 270.5  
**Purity:** ≥98%  
**Supplied as:** A liquid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

14-methyl Pentadecanoic acid methyl ester is supplied as a liquid. A stock solution may be made by dissolving the 14-methyl pentadecanoic acid methyl ester in the solvent of choice. 14-methyl Pentadecanoic acid methyl ester is soluble in organic solvents such as chloroform and ethanol, which should be purged with an inert gas.

### Description

14-methyl Pentadecanoic acid methyl ester is a methylated fatty acid methyl ester that has been found in *S. zeai* sea sponges as the fatty acyl component of zeamide, *A. indica* leaf extract, and *C. vulgaris* and *H. pluvialis* microalgae.<sup>1-3</sup> It is a major component of the vancomycin-induced biofilm produced by vancomycin-resistant *S. aureus* (VRSA).<sup>4</sup> 14-methyl Pentadecanoic acid methyl ester has been used as a standard for the quantification of 14-methyl pentadecanoic acid in various foods by GC-MS.<sup>5</sup>

### References

1. Della Sala, G., Teta, R., Esposito, G., *et al.* Zeamide, a glycosylinositol phosphorylceramide with the novel core Arap(1β→6)ins motif from the marine sponge *Svenzea zeai*. *Molecules* **22(9)**, 1455 (2017).
2. Ravi, S., Shanmugam, B., Subbaiah, G.V., *et al.* Identification of food preservative, stress relief compounds by GC-MS and HR-LC/Q-TOF/MS; evaluation of antioxidant activity of *Acalypha indica* leaves methanolic extract (in vitro) and polyphenolic fraction (in vivo). *J. Food Sci. Technol.* **54(6)**, 1585-1596 (2017).
3. Abdo, S.M., Ali, G.H., and El-Baz, F.K. Potential production of omega fatty acids from microalgae. *Int. J. Pharm. Sci.* **34(2)**, 210-215 (2015).
4. Mirani, Z.A. and Jamil, N. Role of extra-cellular fatty acids in vancomycin induced biofilm formation by vancomycin resistant *Staphylococcus aureus*. *Pak. J. Pharm. Sci.* **26(2)**, 383-389 (2013).
5. Thurnhofer, S. and Vetter, W. Application of ethyl esters and d<sub>3</sub>-methyl esters as internal standards for the gas chromatographic quantification of transesterified fatty acid methyl esters in food. *J. Agric. Food Chem.* **54(9)**, 3209-3214 (2006).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

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#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM