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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

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

www.szabo-scandic.com

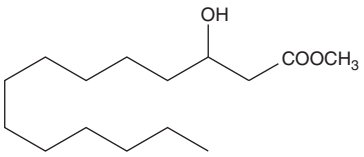
linkedin.com/company/szaboscandic

PRODUCT INFORMATION

3-hydroxy Myristic Acid methyl ester

Item No. 24645

CAS Registry No.: 55682-83-2
Formal Name: 3-hydroxy-tetradecanoic acid, methyl ester
Synonyms: methyl 3-hydroxy Myristate,
(±)-3-hydroxy Myristic Acid methyl ester,
methyl 3-hydroxy Tetradecanoate
MF: $C_{15}H_{30}O_3$
FW: 258.4
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



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

Laboratory Procedures

3-hydroxy Myristic acid methyl ester is supplied as a solid. A stock solution may be made by dissolving the 3-hydroxy myristic acid methyl ester in the solvent of choice. 3-hydroxy Myristic acid methyl ester is soluble in organic solvents such as chloroform, methanol, and ethyl ether, which should be purged with an inert gas.

Description

3-hydroxy Myristic acid methyl ester is a hydroxylated fatty acid methyl ester that has been found in *E. camaldulensis* and *E. torelliana* extracts.[1] It is active against *M. tuberculosis* (MIC = 49.5 µg/ml) and is non-cytotoxic to Vero cells (IC_{50} = >100 µM). 3-hydroxy Myristic acid methyl ester is also a volatile compound that contributes to the aroma of red wild strawberries (*F. pentaphylla*) but is not present in cultivated strawberries (*Fragaria* x *ananassa*).[2]

References

1. Lawal, T.O., Adeniyi, B.A., Adegoke, A.O., *et al.* *In vitro* susceptibility of *Mycobacterium tuberculosis* to extracts of *Eucalyptus camaldulensis* and *Eucalyptus torelliana* and isolated compounds. *Pharm. Biol.* **50(1)**, 92-98 (2012).
2. Duan, W., Sun, P., Chen, L., *et al.* Comparative analysis of fruit volatiles and related gene expression between the wild strawberry *Fragaria pentaphylla* and cultivated *Fragaria* × *ananassa*. *Eur. Food Res. Technol.* **244(1)**, 57-72 (2018).

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