



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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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

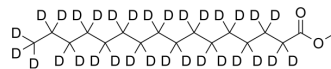
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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## Methyl palmitate-d<sub>31</sub>

Cat. No.:	HY-N1482S1
CAS No.:	29848-79-1
Molecular Formula:	C <sub>17</sub> H <sub>3</sub> D <sub>31</sub> O <sub>2</sub>
Molecular Weight:	301.64
Target:	Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Methyl palmitate-d <sub>31</sub> is the deuterium labeled Methyl palmitate. Methyl palmitate, an acaricidal compound occurring in green walnut husks, inhibits phagocytic activity and immune response. Methyl palmitate also possesses anti-inflammatory and antifibrotic effects[1][2][3].
<b>In Vitro</b>	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. El-Demerdash E, et al. Anti-inflammatory and antifibrotic effects of methyl palmitate. Toxicol Appl Pharmacol. 2011 Aug 1;254(3):238-44.
- [2]. N. R. Di Luzio, et al. Depression of phagocytic activity and immune response by methyl palmitate. Am J Physiol. 1964 May;206:939-43.
- [3]. Y. N. Wang, et al. Methyl Palmitate, an Acaricidal Compound Occurring in Green Walnut Husks. Journal of Economic Entomology, Volume 102, Issue 1, 1 February 2009, Pages 196–202.
- [4]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA