



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### 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

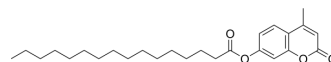
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## 4-Methylumbelliferyl palmitate

<b>Cat. No.:</b>	HY-W010947
<b>CAS No.:</b>	17695-48-6
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>38</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	414.59
<b>Target:</b>	Fluorescent Dye
<b>Pathway:</b>	Others
<b>Storage:</b>	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMF : 50 mg/mL (120.60 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4120 mL	12.0601 mL	24.1202 mL
	5 mM	0.4824 mL	2.4120 mL	4.8240 mL
	10 mM	0.2412 mL	1.2060 mL	2.4120 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

4-Methylumbelliferyl palmitate is an excellent fluorophore for measuring acid lipase in human leukocytes. Acidity and solvent have important influence on its fluorescence. 4-Methylumbelliferyl palmitate exists mainly as neutral molecular form which can be produced strong fluorescence at 445 nm in near neutral aqueous solutions, and exist mainly as anion form which can be produced stronger fluorescence at 445 nm in weak alkaline solutions<sup>[1][2]</sup>.

### REFERENCES

- [1]. Zhi H, et al. Fluorescent properties of hymecromone and fluorimetric analysis of hymecromone in compound dantong capsule. *Journal of Spectroscopy*, 2013, 2013.
- [2]. Dairaku T, et al. Nishimura M, Endo M, Ohashi T, Eto Y. A practical fluorometric assay method to measure lysosomal acid lipase activity in dried blood spots for the screening of cholesteryl ester storage disease and Wolman disease. *Mol Genet Metab.* 2014 Feb;111(2):193-6.

---

**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](mailto:tech@MedChemExpress.com)

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