



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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

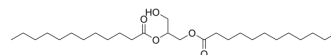
[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

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

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

## 1,2-Dilaurin

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-W127391   |
| <b>CAS No.:</b>           | 17598-94-6   |
| <b>Molecular Formula:</b> | C <sub>27</sub> H <sub>52</sub> O <sub>5</sub>   |
| <b>Molecular Weight:</b>  | 456.7  |
| <b>Target:</b>            | Biochemical Assay Reagents   |
| <b>Pathway:</b>           | Others   |
| <b>Storage:</b>           | -20°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (109.48 mM; ultrasonic and warming and heat to 60°C)

| Solvent                   | Mass  | Concentration |            |            |
|---------------------------|-------|---------------|------------|------------|
|                           |       | 1 mg          | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM  | 2.1896 mL     | 10.9481 mL | 21.8962 mL |
|                           | 5 mM  | 0.4379 mL     | 2.1896 mL  | 4.3792 mL  |
|                           | 10 mM | 0.2190 mL     | 1.0948 mL  | 2.1896 mL  |

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

### BIOLOGICAL ACTIVITY

#### Description

1,2-Dilaurin is a diacylglycerol containing lauric acid at the sn-1 and sn-2 positions. It has been used as an internal standard for the quantification of diglycerides in rat desheathed sciatic nerves. [1] Monomolecular films containing 1,2-dilauroyl-rac-glycerol have been used as substrates to measure surface pressure and the effect of pancreatic procolipase and colipase on porcine pancreatic lipase activity. [2] References: [1]. Zhu, X. and Eichberg, J. 1,2-Diacylglycerol content and its arachidonyl-containing molecular species are reduced in the sciatic nerve of streptozotocin-induced diabetic rats. *J. Neurochemistry*, 55(3), 1087-1090 (1990).[2]. Wieloch, T., Borgstr m, B., Piéroni, G. et al. Porcine trypsinogen and its trypsin-activated form: lipid binding and lipase activation on monomolecular membranes. *FEBS Express*. 128(2), 217-220 (1981).

### REFERENCES

- [1]. Zhu X, et al. 1,2-diacylglycerol content and its arachidonyl-containing molecular species are reduced in sciatic nerve from streptozotocin-induced diabetic rats. *J Neurochem*. 1990 Sep;55(3):1087-90.
- [2]. Wieloch T, et al. Porcine pancreatic procolipase and its trypsin-activated form: lipid binding and lipase activation on monomolecular films. *FEBS Lett*. 1981 Jun 15;128(2):217-20.

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**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