



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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)

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

# PRODUCT INFORMATION

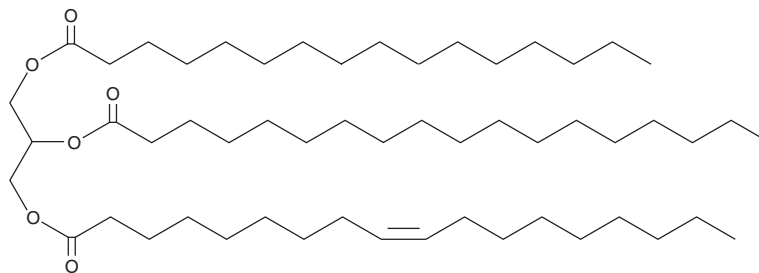


## 1-Palmitoyl-2-Stearoyl-3-Oleoyl-*rac*-glycerol

Item No. 27068

**CAS Registry No.:** 2190-28-5  
**Formal Name:** 9Z-octadecenoic acid, 3-[(1-oxohexadecyl)oxy]-2-[(1-oxooctadecyl)oxy]propyl ester  
**Synonyms:** 1-Palmitin-2-Stearin-3-Olein, TG(16:0/18:0/18:1)

**MF:** C<sub>55</sub>H<sub>104</sub>O<sub>6</sub>  
**FW:** 861.4  
**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

1-Palmitoyl-2-stearoyl-3-oleoyl-*rac*-glycerol is supplied as a solid. A stock solution may be made by dissolving the 1-palmitoyl-2-stearoyl-3-oleoyl-*rac*-glycerol in the solvent of choice, which should be purged with an inert gas. 1-Palmitoyl-2-stearoyl-3-oleoyl-*rac*-glycerol is slightly soluble in methanol and chloroform.

### Description

1-Palmitoyl-2-stearoyl-3-oleoyl-*rac*-glycerol is a triacylglycerol that contains palmitic (Item No. 10006627), stearic (Item No. 10011298), and oleic acid (Item Nos. 90260 | 24659) at the *sn*-1, *sn*-2, and *sn*-3 positions, respectively. It has been detected in RAW 264.7 cells by neutral loss MS.<sup>1</sup> Increased serum levels of 1-palmitoyl-2-stearoyl-3-oleoyl-*rac*-glycerol are a potential biomarker for non-alcoholic fatty liver disease (NAFLD).<sup>2</sup>

### References

1. Murphy, R.C., James, P.F., McAnoy, A.M., *et al.* Detection of the abundance of diacylglycerol and triacylglycerol molecular species in cells using neutral loss mass spectrometry. *Anal. Biochem.* **366**(1), 59-70 (2007).
2. Orešič, M., Hyötyläinen, T., Kotronen, A., *et al.* Prediction of non-alcoholic fatty-liver disease and liver fat content by serum molecular lipids. *Diabetologia* **56**(10), 2266-2274 (2013).

**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