



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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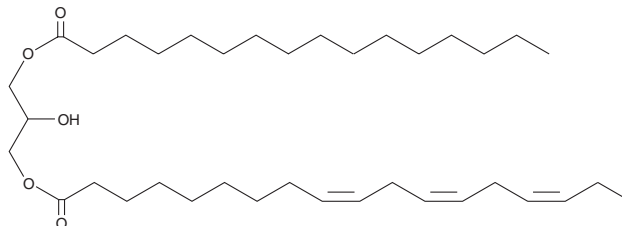
# PRODUCT INFORMATION



## 1-Palmitoyl-3-Linolenoyl-*rac*-glycerol

Item No. 26828

**CAS Registry No.:** 126281-90-1  
**Formal Name:** 9Z,12Z,15Z-octadecatrienoic acid, 2-hydroxy-3-[(1-oxohexadecyl)oxy]propyl ester  
**Synonyms:** 16:0/0:0/18:3-DG, DG(16:0/0:0/18:3), 1-Palmitin-3-Linolenin, 1-Palmitoyl-3- $\alpha$ -Linolenoyl-*rac*-glycerol  
**MF:** C<sub>37</sub>H<sub>66</sub>O<sub>5</sub>  
**FW:** 590.9  
**Purity:**  $\geq$ 98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 2 years



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

### Laboratory Procedures

1-Palmitoyl-3-linolenoyl-*rac*-glycerol is supplied as a solid. A stock solution may be made by dissolving the 1-palmitoyl-3-linolenoyl-*rac*-glycerol in the solvent of choice. 1-Palmitoyl-3-linolenoyl-*rac*-glycerol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 1-palmitoyl-3-linolenoyl-*rac*-glycerol in these solvents is approximately 30, 7, and 20 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of 1-palmitoyl-3-linolenoyl-*rac*-glycerol can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 1-palmitoyl-3-linolenoyl-*rac*-glycerol in PBS, pH 7.2, is approximately 250  $\mu$ g/ml. We do not recommend storing the aqueous solution for more than one day.

### Description

1-Palmitoyl-3-linolenoyl-*rac*-glycerol is a diacylglycerol containing palmitic acid (Item No. 10006627) and  $\alpha$ -linolenic acid (Item No. 90210) at the *sn*-1 and *sn*-3 positions, respectively. It has been found in the peel and pulp of unripe Dwarf Cavendish bananas.<sup>1</sup>

### Reference

1. Oliveira, L., Freire, C.S., Silvestre, A.J., *et al.* Lipophilic extracts from banana fruit residues: A source of valuable phytosterols. *J. Agric. Food Chem.* **56**(20), 9520-9524 (2008).

#### 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.

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