



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Gefahrgutzuschlag
- Expressversand

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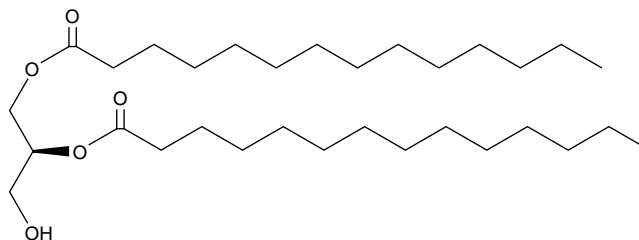
# Product Information



## 1,2-Dimyristoyl-*sn*-glycerol

Item No. 15077

**CAS Registry No.:** 60562-16-5  
**Formal Name:** 1,1'-[(1S)-1-(hydroxymethyl)-1,2-ethanediyl]ester-tetradecanoic acid  
**Synonym:** 1,2-DMG  
**MF:** C<sub>31</sub>H<sub>60</sub>O<sub>5</sub>  
**FW:** 512.8  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid



### Laboratory Procedures

For long term storage, we suggest that 1,2-dimyristoyl-*sn*-glycerol (1,2-DMG) be stored as supplied at -20°C. It should be stable for at least two years.

1,2-DMG is supplied as a crystalline solid. A stock solution may be made by dissolving the 1,2-DMG in the solvent of choice. 1,2-DMG is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 1,2-DMG 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 1,2-DMG can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of 1,2-DMG in PBS, pH 7.2, is approximately 0.25 mg/ml. We do not recommend storing the aqueous solution for more than one day.

1,2-DMG is a saturated diacylglycerol (DAG) with myristic acid (14:0) side-chains attached at both the *sn*-1 and *sn*-2 positions. Most saturated DAGs, including 1,2-DMG, are weak second messengers for the activation of the PKC.<sup>1</sup>

### Reference

1. Sánchez-Piñera, P., Micol, V., Corbalán-García, S., *et al.* A comparative study of the activation of protein kinase C  $\alpha$  by different diacylglycerol isomers. *Biochem. J.* **337**(3), 387-395 (1999).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15077](http://www.caymanchem.com/catalog/15077)

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**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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