



# 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) 

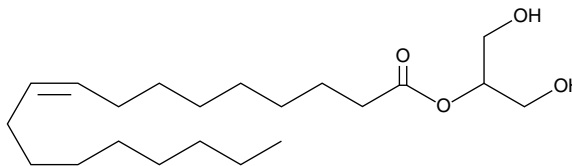
# Product Information



## 2-Oleoyl Glycerol

Item No. 16537

**CAS Registry No.:** 3443-84-3  
**Formal Name:** 2-hydroxy-1-(hydroxymethyl)ethyl ester-9Z-octadecenoic acid  
**Synonyms:** 2-Monoolein, 2-OG  
**MF:** C<sub>21</sub>H<sub>40</sub>O<sub>4</sub>  
**FW:** 356.5  
**Purity:** ≥98%  
**Stability:** ≥1 year at -80°C  
**Supplied as:** A solution in ethanol



### Laboratory Procedures

For long term storage, we suggest that 2-oleoyl glycerol (2-OG) be stored as supplied at -80°C. It should be stable for at least one year.

2-OG is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. The solubility of 2-OG in ethanol is approximately 15 mg/ml and approximately 10 mg/ml in DMSO and DMF.

2-OG is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanolic solution of 2-OG should be diluted with the aqueous buffer of choice. 2-OG has a solubility of approximately 0.25 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

2-OG is a natural monoacylglycerol with an 18:1 oleoyl group at the *sn*-2 position of glycerol. 2-OG, like 2-arachidonoyl glycerol (2-AG; Item No. 62160), is metabolized by monoacylglycerol lipase, but, unlike 2-AG, it is not metabolized by cyclooxygenases or lipoxygenases.<sup>1-3</sup> 2-OG is an agonist of GPR119 (EC<sub>50</sub> = 2.5 μM), stimulating the release of glucagon-like peptide-1 from intestinal L-cells.<sup>4</sup>

### References

1. Brengdahl, J. and Fowler, C.J. A novel assay for monoacylglycerol hydrolysis suitable for high-throughput screening. *Anal. Biochem.* **359**, 40-44 (2006).
2. Ghafouri, N., Tiger, G., Razdan, R.K., *et al.* Inhibition of monoacylglycerol lipase and fatty acid amide hydrolase by analogues of 2-arachidonoylglycerol. *Br. J. Pharmacol.* **143**, 774-784 (2004).
3. Woodhams, S.G., Wong, A., Barrett, D.A., *et al.* Spinal administration of the monoacylglycerol lipase inhibitor JZL184 produces robust inhibitory effects on nociceptive processing and the development of central sensitization in the rat. *Brit. J. Pharmacol.* **167**, 1609-1619 (2012).
4. Hansen, K.B., Rosenkilde, M.M., Knop, F.K., *et al.* 2-Oleoyl glycerol is a GRP119 agonist and signals GLP-1 release in humans. *J. Clin. Endocrinol. Metab.* **96(9)**, E1409-E1417 (2011).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/16537](http://www.caymanchem.com/catalog/16537)

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

#### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. 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

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery**.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

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.

For further details, please refer to our **Warranty and Limitation of Remedy located on our website and in our catalog**.

Copyright Cayman Chemical Company, 12/04/2014

### Cayman Chemical

#### Mailing address

1180 E. Ellsworth Road  
Ann Arbor, MI  
48108 USA

#### Phone

(800) 364-9897  
(734) 971-3335

#### Fax

(734) 971-3640

#### E-Mail

[custserv@caymanchem.com](mailto:custserv@caymanchem.com)

#### Web

[www.caymanchem.com](http://www.caymanchem.com)