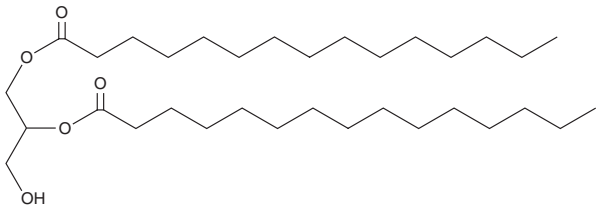
PRODUCT INFORMATION

1,2-Dipentadecanoyl-*rac*-glycerol

Item No. 26941

CAS Registry No.:	98896-79-8
Formal Name:	pentadecanoic acid, 1,1'-[1-(hydroxymethyl)-1,2-ethanediyl] ester
Synonyms:	DG(15:0/15:0/0:0), 1,2-Dipentadecanoin
MF:	$C_{33}H_{64}O_5$
FW:	540.9
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

1,2-Dipentadecanoyl-*rac*-glycerol is supplied as a solid. A stock solution may be made by dissolving the 1,2-dipentadecanoyl-*rac*-glycerol in the solvent of choice, which should be purged with an inert gas. 1,2-Dipentadecanoyl-*rac*-glycerol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of 1,2-dipentadecanoyl-*rac*-glycerol in these solvents is approximately 0.25, 30, 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-dipentadecanoyl-*rac*-glycerol can be prepared by directly dissolving the solid in aqueous buffers. The solubility of 1,2-dipentadecanoyl-*rac*-glycerol in PBS, pH 7.2, is approximately 0.7 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

1,2-Dipentadecanoyl-*rac*-glycerol is a diacylglycerol that contains pentadecanoic acid (Item No. 17399) at the *sn*-1 and *sn*-2 positions. It has been used as an internal standard for the quantification of 1,2-diacylglycerols and component fatty acids in rat myocardial tissue by capillary gas chromatography.[1]

Reference

1. Okumura, K., Matsui, H., Murase, K., *et al.* Insulin increases distinct species of 1,2-diacylglycerol in isolated perfused rat heart. *Metabolism* **45(6)**, 774-781 (1996).

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