



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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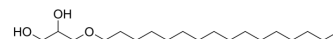
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## 1-O-Hexadecylglycerol

<b>Cat. No.:</b>	HY-W011309
<b>CAS No.:</b>	6145-69-3
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>40</sub> O <sub>3</sub>
<b>Molecular Weight:</b>	316.53
<b>Target:</b>	PPAR; PGE synthase
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor; Immunology/Inflammation
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 200 mg/mL (631.85 mM; Need ultrasonic)				
	<b>Preparing Stock Solutions</b>	<b>Solvent</b> \ <b>Mass</b> \ <b>Concentration</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>1 mM</b>	3.1593 mL	15.7963 mL	31.5926 mL
		<b>5 mM</b>	0.6319 mL	3.1593 mL	6.3185 mL
		<b>10 mM</b>	0.3159 mL	1.5796 mL	3.1593 mL
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (15.80 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	1-O-Hexadecylglycerol can up-regulate PPAR-γ expression, inhibit pGE2, and exhibit anti-inflammatory properties <sup>[1]</sup> . 1-O-Hexadecylglycerol is effective in oral administration <sup>[2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	PPAR-γ

### REFERENCES

- [1]. Yokota M, et al. Chimyl Alcohol Suppresses PGE2 Synthesis by Human Epidermal Keratinocytes through the Activation of PPAR-γ. J Oleo Sci. 2018 Apr 1;67(4):455-462.
- [2]. BLOMSTRAND R et al Absorption of chimyl alcohol in man. Proc Soc Exp Biol Med. 1959 Apr;100(4):802-5.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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