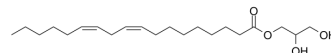


## 1-Linoleoyl Glycerol

<b>Cat. No.:</b>	HY-111346		
<b>CAS No.:</b>	2277-28-3		
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>38</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	354.52		
<b>Target:</b>	Phospholipase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (282.07 mM)  
 Ethanol : 100 mg/mL (282.07 mM; Need ultrasonic)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.8207 mL	14.1036 mL	28.2072 mL
	5 mM	0.5641 mL	2.8207 mL	5.6414 mL
	10 mM	0.2821 mL	1.4104 mL	2.8207 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (7.05 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

1-Linoleoyl Glycerol is a fatty acid glycerol.

#### IC<sub>50</sub> & Target

The (R)-1-Linoleoyl Glycerol and (S)-1-Linoleoyl Glycerol exhibit Lipoprotein-associated phospholipase A<sub>2</sub> (Lp-PLA<sub>2</sub>) inhibitory activities with IC<sub>50</sub> values of 45.0 and 52.0 μM, respectively<sup>[1]</sup>.

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## REFERENCES

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[1]. Lee WS, et al. Lp-PLA2 inhibitory activities of fatty acid glycerols isolated from Saururus chinensis roots. *Bioorg Med Chem Lett*. 2005 Aug 1;15(15):3573-5.

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

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