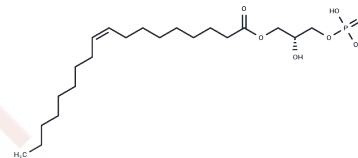


## 1-Oleoyl Lysophosphatidic Acid

## Chemical Properties

CAS No. :	65528-98-5
Formula:	C <sub>21</sub> H <sub>41</sub> O <sub>7</sub> P
Molecular Weight:	436.52
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	1-Oleoyl Lysophosphatidic Acid (1-Oleoyl LPA) is a biologically active phospholipid that can exert multiple biological effects in various disease states of the kidney by activating a complex network of at least six homologous G protein-coupled receptors and their heterotrimeric G proteins. 1-Oleoyl Lysophosphatidic Acid promotes polarization of BV-2 and primary murine microglia toward an M1-like phenotype and can be used to study cancer and atherosclerosis.
Targets(IC50)	LPL Receptor
In vivo	<b>METHODS:</b> 1-Oleoyl Lysophosphatidic Acid(0.4-2 µg, i.v. for 9 weeks) treated rats and behaviorally assessed. <b>RESULTS:</b> 1-Oleoyl Lysophosphatidic Acid induced anxiety-like responses in the elevated plus maze (EPM). [5]

## Solubility Information

Solubility	Ethanol: 10 mg/mL (22.91 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.29 mM),Sonication is recommended. DMF: 1 mg/mL (2.29 mM),Sonication is recommended. DMSO: 1 mg/mL (2.29 mM),Sonication is recommended. PBS (pH 7.2): 1 mg/mL (2.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.2908 mL	11.4542 mL	22.9085 mL
5 mM	0.4582 mL	2.2908 mL	4.5817 mL
10 mM	0.2291 mL	1.1454 mL	2.2908 mL
50 mM	0.0458 mL	0.2291 mL	0.4582 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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