

## 1-Arachidoyl Lysophosphatidic Acid sodium

## Chemical Properties

CAS No. :

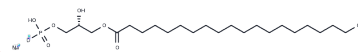
Formula: C<sub>23</sub>H<sub>46</sub>O<sub>7</sub>P.Na

Molecular Weight: 488.57

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description

1-Arachidoyl lysophosphatidic acid (1-arachidoyl LPA), a glycerophospholipid with arachidic acid at the sn-1 position, functions as an agonist for lysophosphatidic acid receptor 1 (LPA1). It effectively induces calcium mobilization in primary human lung fibroblasts at an EC<sub>50</sub> value of 3.6 μM, given these cells inherently express LPA1 but lack expression of LPA2-LPA6 receptors. Additionally, at a concentration of 2.5 μM, 1-arachidoyl LPA binds to the ligand-binding domain of peroxisome proliferator-activated receptor γ (PPARγ) in a cell-free environment. This compound has also been detected in human urine.

## Solubility Information

Solubility

Ethanol: Soluble  
Methanol: Soluble  
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0468 mL	10.2339 mL	20.4679 mL
5 mM	0.4094 mL	2.0468 mL	4.0936 mL
10 mM	0.2047 mL	1.0234 mL	2.0468 mL
50 mM	0.0409 mL	0.2047 mL	0.4094 mL

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.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481