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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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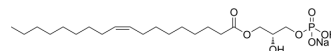
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1-Oleoyl lysophosphatidic acid sodium

Cat. No.:	HY-107614
CAS No.:	325465-93-8
Molecular Formula:	C ₂₁ H ₄₀ NaO ₇ P
Molecular Weight:	458.5
Target:	LPL Receptor
Pathway:	GPCR/G Protein
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 25 mg/mL (54.53 mM; Need ultrasonic)
DMSO : 1.85 mg/mL (4.03 mM; ultrasonic and warming and adjust pH to 5 with HCl and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1810 mL	10.9051 mL	21.8103 mL
	5 mM		0.4362 mL	2.1810 mL	4.3621 mL
	10 mM		0.2181 mL	1.0905 mL	2.1810 mL

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

BIOLOGICAL ACTIVITY

Description

1-Oleoyl lysophosphatidic acid (1-Oleoyl-sn-glycero-3-phosphate) sodium, a potent bioactive phospholipid, is a LPA receptor activator. 1-Oleoyl lysophosphatidic acid sodium can promote mitosis by inducing DNA synthesis. 1-Oleoyl lysophosphatidic acid sodium is also involved in normal and pathological emotional responses, including anxiety and depression^{[1][2][3]}.

IC₅₀ & Target

LPA receptor^[1]

In Vitro

1-Oleoyl lysophosphatidic acid (0.1-10 μM) sodium elicits an acute rise of [Ca²⁺]_i in rat and rabbit osteoclasts^[2].
1-Oleoyl lysophosphatidic acid (5 μM) sodium induces retraction of osteoclast lamellipodia^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

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- Neurobiol Stress. 2024 Apr 4;30:100632.

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REFERENCES

- [1]. Corven EJ, et, al. Mitogenic action of lysophosphatidic acid and phosphatidic acid on fibroblasts. Dependence on acyl-chain length and inhibition by suramin. Biochem J. 1992 Jan 1;281 (Pt 1)(Pt 1):163-9.
- [2]. Lapierre DM, et, al. Lysophosphatidic acid signals through multiple receptors in osteoclasts to elevate cytosolic calcium concentration, evoke retraction, and promote cell survival. J Biol Chem. 2010 Aug 13;285(33):25792-801.
- [3]. Castilla-Ortega E, et, al. 1-Oleoyl lysophosphatidic acid: a new mediator of emotional behavior in rats. PLoS One. 2014 Jan 7;9(1):e85348.
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Caution: Product has not been fully validated for medical applications. For research use only.

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