

Product Information



1-Hexadecyl Lysophosphatidic Acid (sodium salt)

Catalog No. 10010292

Formal Name: 3-(hexadecyloxy)-1-(dihydrogen phosphate)-1,2-propanediol, monosodium salt

Synonyms: Alkyl glycerophosphate 16:0 (sodium salt); 1-Hexadecyl-2-hydroxy-*sn*-glycero-3-phosphate (sodium salt); AGP 16:0 (sodium salt)

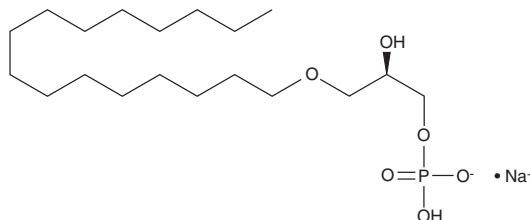
MF: C₁₉H₄₀O₆P • Na

FW: 418.5

Purity: ≥98%

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 1-hexadecyl lysophosphatidic acid (sodium salt) be stored as supplied at -20°C. It should be stable for at least two years.

1-Hexadecyl lysophosphatidic acid (sodium salt) is supplied as a crystalline solid. 1-Hexadecyl lysophosphatidic acid (sodium salt) is sparingly soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. If aqueous stock solutions are required for biological experiments, they can best be prepared by diluting the organic solvent into aqueous buffers or isotonic saline. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

1-Hexadecyl lysophosphatidic acid (sodium salt) is an ether analog of lysophosphatidic acid (LPA) containing a hexadecyl group at the *sn*-1 position.¹ LPA binds to five different G protein-coupled receptors to mediate a variety of biological responses including cell proliferation, smooth muscle contraction, platelet aggregation, neurite retraction, and cell motility.^{2,3}

References

1. Tsukahara, T., Tsukahara, R., Yasuda, S., *et al.* Different residues mediate recognition of 1-*O*-oleyl-lysophosphatidic acid and rosiglitazone in the ligand binding domain of peroxisome proliferator-activated receptor γ *J. Biol. Chem.* **281**(6), 3398-3407 (2006).
2. Moolenaar, W.H. LPA: A novel lipid mediator with diverse biological actions. *Trends Cell Biol.* **4**, 213-219 (1994).
3. Chun, J., Goetzl, E.J., Hla, T., *et al.* International union of pharmacology. XXXIV. Lysophospholipid receptor nomenclature. *Pharmacol. Rev.* **54**, 265-269 (2002).

Related Products

1-Oleoyl Lysophosphatidic Acid (sodium salt) - Cat. No. 62215 • 1-Oleoyl Lysophosphatidic Acid - Cat. No. 10010093 • 1-Hexadecyl Lysophosphatidic Acid - Cat. No. 10010188 • 1-Palmitoyl Lysophosphatidic Acid (sodium salt) - Cat. No. 10010290

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will meet our specifications at the time of delivery.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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