PRODUCT INFORMATION



1-Palmityl-2-hydroxy-sn-glycero-3-PA (sodium salt)

Item No. 10010292

| Formal Name: | 3-(hexadecyloxy)-1-(dihydrogen phosphate)-1,2- propagadiol monosodium salt | | |
|---------------------|--|--------|------|
| Synonyms: | 1-Hexadecyl-2-hydroxy- <i>sn</i> -glycero-3-phosphate, 1-Hexadecyl LPA, 1-Hexadecyl Lysophosphatidic Acid, LPA O-16:0, O-16:0 LPA, PA(O-16:0/0:0), 1-Palmityl LPA, 1-Palmityl Lysophosphatidic Acid | ОН | |
| MF: | $C_{40}H_{40}O_{2}P \bullet Na$ | 0 | |
| FW: | 418.5 | | |
| Purity: | ≥98% | 0=P-O- | • Na |
| Supplied as: | A crystalline solid | όн | |
| Storage: | -20°C | | |
| Stability: | ≥4 years | | |
| Information represe | nts the product specifications. Batch specific analytical results are provided on each certificate of analysis | | |

Laboratory Procedures

1-Palmityl-2-hydroxy-sn-glycero-3-PA (sodium salt) is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-palmityl-2-hydroxy-sn-glycero-3-PA (sodium salt) in the solvent of choice, which should be purged with an inert gas. 1-Palmityl-2-hydroxy-sn-glycero-3-PA (sodium salt) is soluble in a solution of chloroform:methanol:acetic acid (95:5:5).

Description

1-Palmityl-2-hydroxy-sn-glycero-3-PA (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-oleyllysophosphatidic acid and rosiglitazone in the ligand binding domain of peroxisome proliferator-activated receptor y. 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(6), 213-219 (1994).
- 3. Chun, J., Goetzl, E.J., Hla, T., et al. International union of pharmacology. XXXIV. Lysophospholipid receptor nomenclature. Pharmacol. Rev. 54(2), 265-269 (2002).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFFTY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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