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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



1-Arachidoyl Lysophosphatidic Acid (sodium salt)

Item No. 39227

Formal Name: (R)-2-hydroxy-3-(icosanoyloxy)propyl hydrogen phosphate, monosodium salt

Synonyms: 1-Arachidoyl LPA, 1-Eicosanoyl-Lysophosphatidic Acid, LPA(20:0)

MF: C₂₃H₄₆O₇P • Na

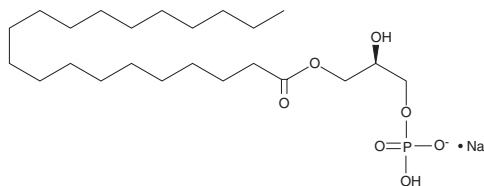
FW: 488.6

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

1-Arachidoyl lysophosphatidic acid (1-arachidoyl LPA) (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the 1-arachidoyl LPA (sodium salt) in the solvent of choice, which should be purged with an inert gas. 1-Arachidoyl LPA (sodium salt) is soluble in methanol.

Description

1-Arachidoyl LPA is an agonist of lysophosphatidic acid receptor 1 (LPA₁) and a glycerophospholipid containing arachidic acid (Item Nos. 9000339 | 21906) at the *sn*-1 position.² It induces calcium mobilization in primary human lung fibroblasts (EC₅₀ = 3.6 μM), which endogenously express LPA₁ but not LPA₂-LPA₆. 1-Arachidoyl LPA (2.5 μM) also binds to the ligand-binding domain of peroxisome proliferator-activated receptor γ (PPARγ) in a cell-free assay.² It has been found in human urine.³

References

1. Sattikar, A., Dowling, M.R., and Rosethorne, E.M. Endogenous lysophosphatidic acid (LPA₁) receptor agonists demonstrate ligand bias between calcium and ERK signalling pathways in human lung fibroblasts. *Br. J. Pharmacol.* **174**(3), (2017).
2. 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).
3. Lim, S., Byeon, S.K., Lee, J.Y., *et al.* Computational approach to structural identification of phospholipids using raw mass spectra from nanoflow liquid chromatography-electrospray ionization-tandem mass spectrometry. *J. Mass. Spectrom.* **47**(8), 1004-1014 (2012).

WARNING

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

SAFETY 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.

WARRANTY AND LIMITATION OF REMEDY

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