



1-Oleoyl-2-Hydroxy-sn-Glycero-3-Phosphatidic acid Na salt

Catalog: Lipo-460

PRODUCT INFORMATION

Name 1-Oleoyl-2-Hydroxy-sn-Glycero-3-Phosphatidic acid Na salt

Cat No. Lipo-460

CAS 22556-62-3

Product Overview

1-Oleoyl lysophosphatidic acid is a species of lysophosphatidic acid (LPA) containing oleic acid at the sn-1 position. Phosphatidic acid is produced either directly through the action of PLD or through a two step process involving liberation of DAG by PLC followed by phosphorylation of DAG by diglycerol kinase. Hydrolysis of the fatty acid at the sn-2 position by PLA2 yields bioactive LPA. LPA binds to one of four different G-protein linked receptors to mediate a variety of biological responses including cell proliferation, smooth muscle contraction, platelet aggregation, neurite retraction, and cell motility. 1-Oleoyl lysophosphatidic acid is the most potent of the LPA analogs for calcium mobilization in A431 cells³ and for growth stimulation of a variety of cell lines.

Purity >98%

Application Liposome production; Synthetic lipid

Molecular Mass 458.5

Synonyms LPA (18:1(9Z)/0:0); 18:1 Lyso PA; 1-oleoyl-sn-glycero-3-phosphatidic acid (sodium salt); 1-(9Z-octadecenoyl)-sn-glycero-3-phosphate (sodium salt)