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Zuschläge

- Mindermengenzuschlag
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Product Information



1-O-Octadecyl-2-O-methyl-*sn*-glycerol

Item No. 15108

CAS Registry No.: 83167-59-3

Formal Name: 2S-methoxy-3-(octadecyloxy)-1-propanol

Synonyms: 2-Methyl-1-octadecyl-*sn*-glycerol, PIA 7

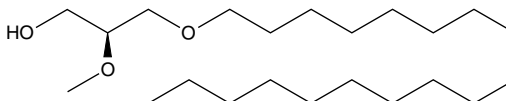
MF: C₂₂H₄₆O₃

FW: 358.6

Purity: ≥95%

Stability: ≥2 years at -20°C

Supplied as: A crystalline solid



Laboratory Procedures

For long term storage, we suggest that 1-O-octadecyl-2-O-methyl-*sn*-glycerol be stored as supplied at -20°C. It should be stable for at least two years.

1-O-Octadecyl-2-O-methyl-*sn*-glycerol is supplied as a crystalline solid. A stock solution may be made by dissolving the 1-O-octadecyl-2-O-methyl-*sn*-glycerol in the solvent of choice. 1-O-Octadecyl-2-O-methyl-*sn*-glycerol is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 1-O-octadecyl-2-O-methyl-*sn*-glycerol in these solvents is approximately 5, 0.16, and 16 mg/ml, respectively.

1-O-Octadecyl-2-O-methyl-*sn*-glycerol is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure 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-O-Octadecyl-2-O-methyl-*sn*-glycerol is a metabolite of a phosphatidylinositol ether lipid analog (PIA). PIAs are known to target the pleckstrin homology domain of the serine/threonine kinase Akt and to induce apoptosis in cancer cell lines with high levels of endogenous Akt activity.¹⁻²

References

1. Castillo, S.S., Brognard, J., Petukhov, P.A., *et al.* Preferential inhibition of Akt and killing of Akt-dependent cancer cells by rationally designed phosphatidylinositol ether lipid analogues. *Cancer Res.* **64(8)**, 2782-2792 (2004).
2. Memmott, R.M., Gills, J.J., Hollingshead, M., *et al.* Phosphatidylinositol ether lipid analogues induce AMP-activated protein kinase-dependent death in LKB1-mutant non-small cell lung cancer cells. *Cancer Res.* **68(2)**, 580-588 (2008).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15108

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

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 Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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