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DATASHEET

1-O-Hexadecyl-2-O-acetyl-sn-glycerol

Product overview

Name	1-O-Hexadecyl-2-O-acetyl-sn-glycerol
Cat No	HB0067
Biological action	Inhibitor
Purity	>98%
Description	PKC inhibitor

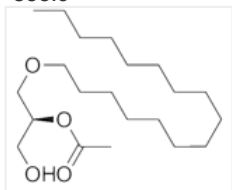
Biological Data

Biological description	Protein kinase C (PKC) inhibitor, acts as a diacylglycerol (DAG) antagonist. Synthetic precursor of platelet activating factor (PAF). Shows growth inhibitory actions against the promyelocytic leukemia cell line.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in ethanol or acetone
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(1-Hexadecoxy-3-hydroxypropan-2-yl) acetate
Molecular Weight	358.6
Chemical structure	

Molecular Formula	C ₂₁ H ₄₂ O ₄
CAS Number	77133-35-8
PubChem identifier	1379
SMILES	<chem>CCCCCCCCCCCCCCCCOCC(CO)OC(=O)C</chem>

References

Activation of corticotropin-releasing factor 2 receptor inhibits Purkinje neuron P-type calcium currents via G(o)alpha-dependent PKC epsilon pathway.

Tao J *et al* (2009) Cell Signal 21(9)

PubMedID [19439178](#)

Amyloid-beta42 signals tau hyperphosphorylation and compromises neuronal viability by disrupting alkylacylglycerophosphocholine metabolism.

Ryan SD *et al* (2009) Proc Natl Acad Sci U S A 106(49)

PubMedID [19926863](#)

1-O-alkyl-2-acetyl-sn-glycerol: a platelet-activating factor metabolite with biological activity in vascular smooth muscle cells.

Stoll LL *et al* (1989) Cell Regul 1(1)

PubMedID [2519612](#)

1-0-Hexadecyl-2-acetyl-sn-glycerol stimulates differentiation of HL-60 human promyelocytic leukemia cells to macrophage-like cells.

McNamara MJ *et al* (1984) Biochem Biophys Res Commun 122(2)

PubMedID [6590040](#)
