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# DATASHEET

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

### Product overview

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

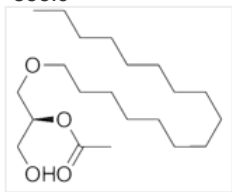
### Biological Data

<b>Biological description</b>	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

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

### Chemical Data

<b>Chemical name</b>	(1-Hexadecoxy-3-hydroxypropan-2-yl) acetate
<b>Molecular Weight</b>	358.6
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>21</sub> H <sub>42</sub> O <sub>4</sub>
<b>CAS Number</b>	77133-35-8
<b>PubChem identifier</b>	1379
<b>SMILES</b>	CCCCCCCCCCCCCCCCOCC(CO)OC(=O)C

### 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-O-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](#)

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