

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com



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. |
|------------------------|---|

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 | The chemical structure shows a glycerol backbone with a hydroxyl group at position 3 and an acetyl group at position 2. A long-chain hexadecyl group is attached to the first carbon. The structure is shown in a 2D projection with explicit bond angles and partial structures. |
| Molecular Formula | C ₂₁ H ₄₂ O ₄ |
| CAS Number | 77133-35-8 |
| PubChem identifier | 1379 |
| SMILES | CCCCCCCCCCCOCC(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.

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
