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Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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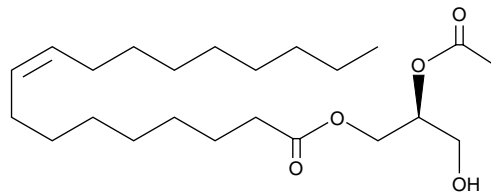
Product Information



1-Oleoyl-2-acetyl-*sn*-glycerol

Item No. 62600

CAS Registry No: 86390-77-4
Formal Name: 1-O-9Z-octadecenoyl-2-O-acetyl-*sn*-glycerol
Synonym: OAG
MF: C₂₃H₄₂O₅
FW: 398.6
Purity: ≥ 90%
Stability: ≥ 1 year at -80°C
Supplied as: A solution in acetonitrile



Laboratory Procedures

For long term storage, we suggest that 1-oleoyl-2-acetyl-*sn*-glycerol (OAG) be stored as supplied at -80°C. It will be stable for at least one year.

OAG is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the OAG under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide (DMF) purged with an inert gas can be used. OAG is miscible with ethanol, and its solubility in DMSO and DMF is approximately 20 mg/ml. OAG is stable for at least three months in these solvents if stored at -80°C.

OAG is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, OAG should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. OAG has a solubility of approximately 1.7 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. Store aqueous solutions of OAG on ice and use within 12 hours of preparation. Although the aqueous solutions of OAG may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

OAG is a cell-permeable analog of the protein kinase C-activating second messenger DAG. It activates protein kinase C in platelets, resulting in the phosphorylation of a 40 kDa protein.¹ OAG is metabolized to its corresponding phosphatidic acid (1-oleoyl-2-acetyl-3-phosphoglycerol), most likely through the action of a diglycerol kinase.¹

Reference

1. Nishizuka, Y. The role of protein kinase C in cell surface signal transduction and tumour promotion. *Nature* **308**, 693-697 (1984).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/62600

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

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

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