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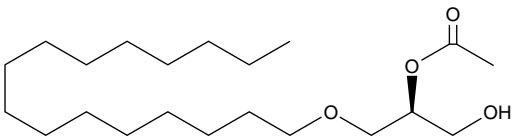
Product Information

Hexadecyl Acetyl Glycerol

Item No. 60920

CAS Registry No: 77133-35-8
Formal Name: 1-O-hexadecyl-2-O-acetyl-*sn*-glycerol
Synonyms: HAG
MF: $C_{21}H_{42}O_4$
FW: 358.6
Purity: ≥90%
Stability: ≥6 months at -80°C
Supplied as: A solution in acetonitrile



Laboratory Procedures

For long term storage, we suggest that hexadecyl acetyl glycerol (HAG) be stored as supplied at -80°C. It will be stable for at least six months.

HAG is supplied as a solution in acetonitrile. To change the solvent, simply evaporate the acetonitrile under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol and DMSO purged with an inert gas can be used. HAG is miscible in ethanol and its solubility in DMSO is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of HAG is needed, it can be prepared by evaporating the acetonitrile and directly dissolving the neat oil in aqueous buffers. The solubility of HAG in PBS (pH 7.2) is approximately 150 µg/ml. Store aqueous solutions of HAG on ice and use within 12 hours of preparation. Although the aqueous solutions of HAG may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

Hexadecyl acetyl glycerol is an analog of diacylglycerol (DAG), which inhibits the activation of protein kinase C by DAG.1 It also inhibits the growth of HL-60 cells and induces differentiation to cells resembling mononuclear phagocytes. Following treatment with 5 µg/ml HAG for six days, HL-60 cells demonstrated a 10-fold increase in non-specific esterase activity.[2]

References

1. Daniel, L.W., Small, G.W., and Schmitt, J.D. Alkyl-linked diglycerides inhibit protein kinase C activation by diacylglycerols. *Biochem. Biophys. Res. Commun.* **151**, 291-297 (1988).
2. McNamara, M.J.C., Schmitt, J.D., Wykle, R.L., *et al.* 1-O-Hexadecyl-2-acetyl-*sn*-glycerol stimulates differentiation of HL-60 human promyelocytic leukemia cells to macrophage-like cells. *Biochem. Biophys. Res. Commun.* **122**, 824-830 (1984).

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