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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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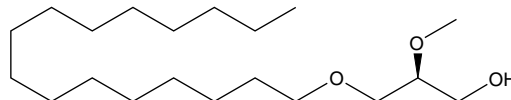
Product Information



Hexadecyl Methyl Glycerol

Item No. 60930

CAS Registry No.: 96960-92-8
Formal Name: 1-O-hexadecyl-2-O-methyl-*sn*-Glycerol
Synonym: HMG
MF: C₂₀H₄₂O₃
FW: 330.6
Purity: ≥98%
Stability: ≥1 year at -20°C
Supplied as: A solution in ethanol



Laboratory Procedures

For long term storage, we suggest that hexadecyl methyl glycerol (HMG) be stored as supplied at -20°C. It should be stable for at least one year.

HMG is supplied as a solution in ethanol. To change the solvent, simply evaporate the ethanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as DMSO or dimethylformamide purged with an inert gas can be used. The solubility of HMG in these solvents is approximately 8.3 mg/ml.

HMG is sparingly soluble in aqueous solutions. 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. Store aqueous solutions of HMG on ice and use within 12 hours. We recommend making a fresh preparation each day.

HMG is an ether-linked structural analog of diacylglycerol (DAG), the natural activator of protein kinase C. HMG is a synthetic DAG with a hexadecyl chain at the *sn*-1 position and a methyl group at the *sn*-2 position. It inhibits protein kinase C (PKC) activity in human neutrophils, resulting in prevention of the respiratory burst induced by both phorbol 12,13-dibutyrate and fMLP.¹ In intact cells, 125 μM HMG inhibits PKC activity by 85-90%. In cell-free systems, HMG does not effect the activity of cAMP-dependent or Ca²⁺/calmodulin protein kinases but selectively inhibits PKC in a concentration-dependent manner.¹

Reference

1. Kramer, I.M., van der Bend, R.L., Tool, A.T.J., *et al.* 1-O-hexadecyl-2-O-methylglycerol, a novel inhibitor of protein kinase C, inhibits the respiratory burst in human neutrophils. *J. Biol. Chem.* **264**, 5876-5884 (1989).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/60930

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

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

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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