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Produktinformation



Forschungsprodukte & Biochemikalien



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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



FOG9

Item No. 34265

Formal Name: 5-oxo-6Z,9S-(S-glutathionyl)-11Z,14Z-eicosatrienoic acid

Synonym: 5-OxoETE-glutathione

MF: C₃₀H₄₇N₃O₉S

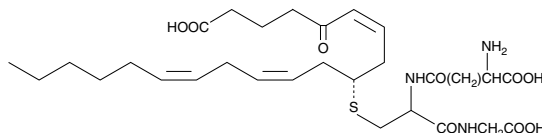
FW: 625.8

Purity: ≥98%

Stability: ≥6 months at -80°C

Supplied as: A solution in ethanol

UV/Vis: λ_{max}: 226, 276 nm ε: 9,000



Laboratory Procedures

For long term storage, we suggest that FOG9 be stored as supplied at -80°C. It should be stable for at least six months.

FOG9 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 and dimethyl formamide purged with an inert gas can be used. The solubility of FOG9 in these solvents is approximately 50 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 FOG9 is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of FOG9 in PBS (pH 7.2) is approximately 100 µg/ml. Store aqueous solutions of FOG9 on ice and use within 12 hours of preparation. Although the aqueous solutions of FOG9 may be stable for more than 12 hours, we strongly recommend using a fresh preparation each day.

FOG9 is formed through the conjugation of 5-oxoETE with glutathione in a 1,6 Michael addition at C-9. The biological activity of FOG9 has not been determined. However, FOG7, a 1,4-adduct formed within murine peritoneal macrophages, was found to be highly potent in stimulating eosinophil and neutrophil chemotaxis.¹ FOG7 was also capable of initiating actin polymerization without elevating intracellular free calcium ion concentration within either the eosinophil or polymorphonuclear.¹

Reference

1. Bowers, R.C., Hevko, J., Henson, P.M., et al. A novel glutathione containing eicosanoid (FOG7) chemotactic for human granulocytes. *J. Biol. Chem.* 275, 29931-29934 (2000).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/34265

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.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery**.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Buyer's **exclusive remedy** and Cayman's sole liability hereunder shall be limited to a **refund** of the purchase price, or at Cayman's option, the **replacement**, at no cost to Buyer, of all material that does not meet our specifications.

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.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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