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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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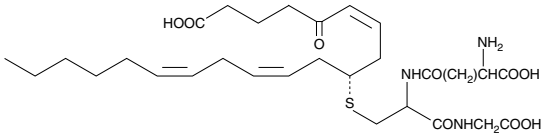
Product Information

FOG9

Item No. 34265

Formal Name: 5-oxo-6Z,9S-(S-glutathionyl)-11Z,14Z-eicosatrienoic acid
Synonym: 5-OxoETE-glutathione
MF: $C_{30}H_{47}N_3O_9S$
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

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