

Product Data Sheet

Product Name: Methyl linolenate

Cat. No.: GC36592

Chemical Properties

Cas. No. 301-00-8

SMILES CC/C=C\C/C/C=C\C/C=C\CCCCCCCC(OC)=O

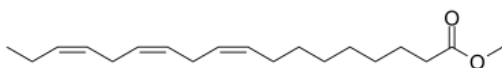
Formula $C_{19}H_{32}O_2$ M.Wt 292.46

Solubility DMSO: 50 mg/mL (170.96 mM);
Water: < 0.1 mg/mL (insoluble) Storage Store at -20°C, protect from light, stored under nitrogen

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Methyl linolenate is a polyunsaturated fatty acid (PUFA). It is used in studies on the mechanisms and prevention of oxidation/peroxidation of unsaturated fatty acids. [1][2] The IC50 is 60 uM. [3]

[1]. Huh S et al. Melanogenesis inhibitory effect of fatty acid alkyl esters isolated from Oxalis

Caution: Product has not been fully validated for medical applications. For research use only.

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triangularis. Biol Pharm Bull, 2010, 33(7):1242-5. [2]. Li X et al. Benchmark Calculations for Bond Dissociation Enthalpies of Unsaturated Methyl Esters and the Bond Dissociation Enthalpies of Methyl Linolenate. J Phys Chem A, 2016, Jun 16, 120(23):4025-36 [3]. Saori Okuda et al. Impact of Lipid Physical State on the Oxidation of Methyl Linolenate in Oil-in-Water Emulsions.

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