

Product Data Sheet

Product Name: Linoleic acid

Cat. No.: GC30215

Chemical Properties

Cas. No. 60-33-3

SMILES CCCCC/C=C\C/C=C\CCCCCCCC(O)=O

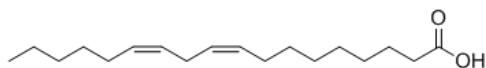
Formula $C_{18}H_{32}O_2$ M.Wt 280.45

Solubility DMSO : ≥ 43.33 mg/mL (154.50 mM) 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Linoleic acid is a critical component of polyunsaturated fatty acids.

Linoleic acid contains unsaturated double bonds that are highly vulnerable to free radical attack and oxidation. If ROS are produced in great quantities, the body can no longer efficiently remove them. In such instances, ROS may be released into the extracellular space, causing damage to surrounding cells and tissues. Linoleic acid is a decomposition product of a free fatty acid and has been linked to erythrocyte damage[1].

[1]. Yuan T, et al. Linoleic acid induces red blood cells and hemoglobin damage via oxidative mechanism. Int J Clin Exp Pathol. 2015 May 1;8(5):5044-52.

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