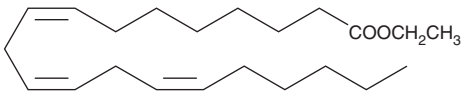
PRODUCT INFORMATION

Dihomo-γ-Linolenic Acid ethyl ester

Item No. 90236

CAS Registry No.: 55968-21-3
Formal Name: 8Z,11Z,14Z-eicosatrienoic acid, ethyl ester
Synonyms: ethyl 20:3ω6, ethyl 20:3 *n*-6, Ethyl DGLA, Ethyl dihomo-γ-linolenate
MF: $C_{22}H_{38}O_2$
FW: 334.5
Purity: ≥98%
Supplied as: A 100 mg/ml solution in ethanol
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Dihomo-γ-linolenic acid ethyl ester 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 dihomo-γ-linolenic acid ethyl ester in these solvents is approximately 100 mg/ml.

Dihomo-γ-linolenic acid ethyl ester is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the ethanol solution of dihomo-γ-linolenic acid ethyl ester should be diluted with the aqueous buffer of choice. The solubility of dihomo-γ-linolenic acid ethyl ester in PBS (pH 7.2) is approximately 100 µg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Dihomo-γ-linolenic acid ethyl ester (ethyl DGLA) is an ester form of the ω-6 fatty acid intermediate DGLA (Item No. 90230). Dietary administration of ethyl DGLA (1 g/kg per day for 25 days) increases prostaglandin E_1 (PGE_1; Item No. 13010) and PGE_2 (Item No. 14010) secretion in rabbit renal papilla.[1] Ethyl DGLA (1 g/kg per day) increases triglyceride levels and the proportion of 20:3ω6 and 20:4ω6 phospholipids of the renal medulla in rabbits. Formulations containing ethyl DGLA have been used in the treatment of eczema and inflammatory disorders.

Reference

1. Knapp, H.R., Oelz, O., Whorton, A.R., *et al.* Effects of feeding ethyl-dihomo-gamma-linolenate on rabbit renomedullary lipid composition and prostaglandin production in vitro. *Lipids* **13(11)**, 804-808 (1978).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

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