PRODUCT DATA SHEET

9(Z),11(Z)-Octadecadienoic acid

Catalog No: 1248
Common Name: 9-cis,11-cis CLA
Source: Synthetic
Solubility: chloroform, ethanol, methanol, ethyl ether
CAS No: 544-70-7
Molecular Formula: C_{18}H_{32}O_{2}

Molecular Weight: 280
Storage: -20°C
Purity: TLC >96%, GC >96%; identity confirmed by MS
TLC System: hexane/ethyl ether/acetic acid (80:20:1 by Vol.)
Appearance: solid

Application notes:
9(Z),11(Z)-Octadecadienoic acid is a conjugated linoleic acid (CLA), an isomer of linoleic acid. CLA is found mostly in lipids originating in ruminant animals including dairy products. It has several biological properties including anti-carcinogenic activity, suppressing in vitro growth of human melanoma, colorectal, and breast cancer cells, and exhibiting anti-atherogenic activity. It is thought that CLA itself may not have anti-oxidant capabilities but may produce substances which protect cells from the detrimental effects of peroxides. Due to its being a minor component it is very helpful as a comparison to the major isomers 9(Z),11(E)-CLA and 10(E),12(Z)-CLA. 9(Z),11(Z)-CLA has been demonstrated to have a more potent antiproliferative effect than the more common 9(Z),11(E)-CLA isomer when incubated with human colon cancer cells.

Selected References:

This product is to be used for research only. It is not intended for drug or diagnostic use, human consumption or to be used in food or food additives. Matreya assumes no liability for any use of this product by the end user. We believe the information, offered in good faith, is accurate.

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DS1248 Rev. #8
March 15, 2022