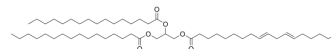


12-Dipalmitoyl-3-Linoelaidoyl-rac-glycerol

Cat. No.:	HY-145504
CAS No.:	344791-14-6
Molecular Formula:	C ₅₃ H ₉₈ O ₆
Molecular Weight:	831.34
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

12-Dipalmitoyl-3-Linoelaidoyl-rac-glycerol is a triacylglycerol containing palmitic acid (HY-N0830) at the sn-1 and sn-2 positions and linoelaidic acid (HY-W071746) at the sn-3 position. Palmitic acid is a long-chain saturated fatty acid commonly found in both animals and plants. Palmitic acid can induce the expression of glucose-regulated protein 78 (GRP78) and CCAAT/enhancer binding protein homologous protein (CHOP) in mouse granulosa cells. Linoelaidic acid, an omega-6 trans fatty acid, acts as a source of energy. Linoelaidic acid is an essential nutrient, adding in enteral, parenteral, and infant formulas. Linoelaidic acid can be used for heart diseases research^{[1][2][3]}.

REFERENCES

- [1]. Harada H, et al. Antitumor activity of palmitic acid found as a selective cytotoxic substance in a marine red alga. *Anticancer Res.* 2002 Sep-Oct;22(5):2587-90.
- [2]. Ding WJ, et al. Expression of Notch family is altered in non-alcoholic fatty liver disease. *Mol Med Rep.* 2020 Sep;22(3):1702-1708.
- [3]. Whelan J, et al. Linoleic acid. *Adv Nutr.* 2013 May 1;4(3):311-2.

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

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