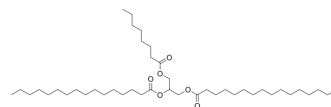


1,2-Dipalmitoyl-3-Octanoyl-rac-glycerol

Cat. No.:	HY-145540
CAS No.:	145134-89-0
Molecular Formula:	C ₄₃ H ₈₂ O ₆
Molecular Weight:	695.11
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

1,2-Dipalmitoyl-3-Octanoyl-rac-glycerol is a triacylglycerol containing palmitic acid (HY-N0830) at the sn-1 and sn-2 positions and octanoic acid (HY-41417) at the sn-3 position. Palmitic acid is a long-chain saturated fatty acid commonly found in both animals and plants. PA can induce the expression of glucose-regulated protein 78 (GRP78) and CCAAT/enhancer binding protein homologous protein (CHOP) in mouse granulosa cells. Octanoic acid is an oily liquid with a slightly unpleasant rancid taste and used commercially in the production of esters used in perfumery and also in the manufacture of dyes. Octanoic acid is also a tremor-suppressing agent^{[1][2][3][4]}.

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]. Nahab FB, et al. Octanoic acid suppresses harmaline-induced tremor in mouse model of essential tremor. *Neurotherapeutics.* 2012 Jul;9(3):635-8.
- [4]. Joniec-Maciejak I, et al. Octanoic acid prevents reduction of striatal dopamine in the MPTP mouse model of Parkinson's disease. *Pharmacol Rep.* 2018 Oct;70(5):988-992.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA