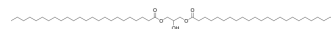


13-Dilignoceroyl glycerol

Cat. No.:	HY-115706
CAS No.:	120639-92-1
Molecular Formula:	C ₅₁ H ₁₀₀ O ₅
Molecular Weight:	793.34
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

13-Dilignoceroyl glycerol is a diacylglycerol containing lignoceric acid (HY-121883) at the sn-1 and sn-3 positions. Lignoceric acid is a 24-carbon saturated (24:0) fatty acid, which is synthesized in the developing brain. Lignoceric acid is also a by-product of lignin production. Lignoceric acid can be used for Zellweger cerebro-hepato-renal syndrome and adrenoleukodystrophy research^{[1][2]}.

REFERENCES

[1]. Petroni A, et al. Thermogenic flux induced by lignoceric acid in peroxisomes isolated from HepG2 cells and from X-adrenoleukodystrophy and control fibroblasts. *J Cell Physiol.* 2019 Aug;234(10):18344-18348.

[2]. Bourre JM, et al. Lignoceric acid biosynthesis in the developing brain. Activities of mitochondrial acetyl-CoA-dependent synthesis and microsomal malonyl-CoA chain-elongating system in relation to myelination. Comparison between normal mouse and dysmyelinating mutants (quaking and jimpy). *Eur J Biochem.* 1977 Jan 3;72(1):41-7.

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

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