

Product Data Sheet

Product Name: Linoleic Acid Amide

Cat. No.: GC44069

Chemical Properties

Cas. No. 3999-01-7

Chemical Name 9Z,12Z-octadecadienamide

SMILES CCCCC/C=C\C/C=C\CCCCCCCC(N)=O

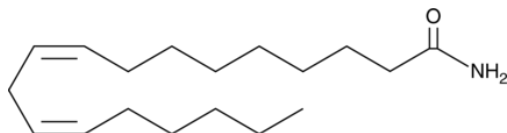
Formula C18H33NO M.Wt 279.5

Solubility DMF: > 14 mg/ml, DMSO: > 20 mg/ml, Ethanol: > 22 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Linoleic acid amide is a primary fatty acid amide derived from linoleic acid. [1] It is reported to regulate Ca²⁺ flux by inhibiting the sarco/endoplasmic reticulum Ca²⁺-ATPase (IC₅₀ = 15-53 μM). [2]

Reference:

[1]. Farrell, E.K., Chen, Y., Barazangi, M., et al. Primary fatty acid amide metabolism: Conversion of fatty acids and an ethanolamine in N18TG2 and SCP cells. J. Lipid. Res. 53(2), 247-256 (2012).

[2]. Yamamoto, S., Takehara, M., and Ushimaru, M. Inhibitory action of linoleamide and oleamide toward sarco/endoplasmic reticulum Ca²⁺-ATPase. Biochim. Biophys. Acta 1861(1 Pt A), 3399-3405 (2016).

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

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