

Product Data Sheet

Product Name: Undecanoic acid

Cat. No.: GC38246

Chemical Properties

Cas. No. 112-37-8

SMILES CCCCCCCCCCC(=O)O

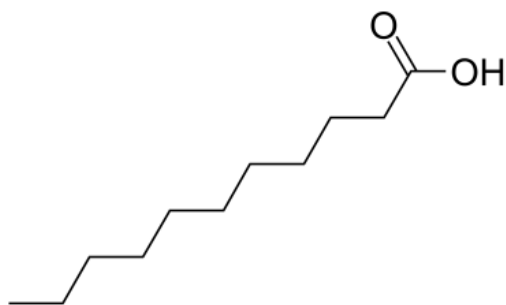
Formula $C_{11}H_{22}O_2$ M.Wt 186.29

Solubility DMF: 25 mg/ml, DMSO: 10 mg/ml, DMSO:PBS(pH7.2) (1:1): 0.25 mg/ml, Ethanol: 25 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 sizes: ship with RT, or blue ice upon request.

Structure



Background

Undecanoic acid (Undecanoate) is a monocarboxylic acid with antimycotic property, which inhibits the production of exocellular keratinase, lipase and the biosynthesis of several phospholipids in *T. rubrum*[1].

[1]. Hornung B, et al. Medium chain length fatty acids stimulate triacylglycerol synthesis in tissue

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

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culture cells. Biochem Pharmacol. 1992 Jan 22;43(2):175-81. [2]. Das SK, et al. Effect of undecanoic acid on phospholipid metabolism in Trichophyton rubrum. Sabouraudia. 1982 Dec;20(4):267-72. [3]. Das SK, et al. Effect of undecanoic acid on the production of exocellular lipolytic and keratinolytic enzymes by undecanoic acid-sensitive and -resistant strains of Trichophyton rubrum. Sabouraudia. 1982 Sep;20(3):179-84. [4]. Coppa M, et al. Effect of a hay-based diet or different upland grazing systems on milk volatile compounds. J Agric Food Chem. 2011 May 11;59(9):4947-54.

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