
Product Data Sheet

Product Name: Undecanoic acid-d21

Cat. No.: GC70093

Chemical Properties

Cas. No. 60658-40-4

Formula $C_{11}HD_{21}O_2$ M.Wt 207.42

Solubility 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**

Undecanoic acid-d₂₁ is the deuterium labeled Undecanoic acid. 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].

Stable heavy isotopes of drogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

[2]. Hornung B, et al. Medium chain length fatty acids stimulate triacylglycerol synthesis in tissue culture cells. *Biochem Pharmacol.* 1992 Jan 22;43(2):175-81.

[3]. Das SK, et al. Effect of undecanoic acid on phospholipid metabolism in *Trichopton rubrum*. *Sabouraudia.* 1982 Dec;20(4):267-72.

[4]. 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 *Trichopton*

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

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rubrum. Sabouraudia. 1982 Sep;20(3):179-84.

[5]. 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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