

Product Data Sheet

Product Name: Geraniol-d6 (Major)

Cat. No.: GC74721

Chemical Properties

Cas. No. 1660976-93-1

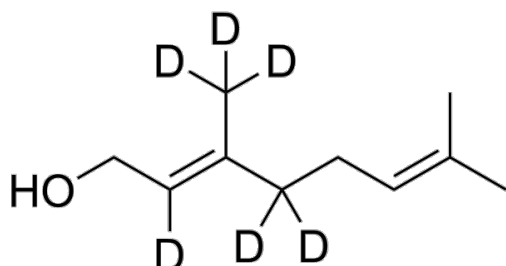
Formula $C_{10}H_{12}D_6O$ M.Wt 160.29

Solubility DMSO : 100 mg/mL (623.87 mM; Storage 4°C, protect from light
Need ultrasonic and warming)

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

Geraniol-d6 (Major) is the deuterated labeled Geraniol (Major). Geraniol is an olefin terpene with oral activity. Geraniol inhibits cell proliferation and promotes apoptosis. Geraniol has antibacterial, antifungal, antioxidant, anti-inflammatory and antitumor activities. Geraniol can be used to study diabetes.

References:

[1]. Bard M, et al. Geraniol interferes with membrane functions in strains of Candida and

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

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Saccharomyces. Lipids. 1988 Jun;23(6):534-8.

[2]. Kim SH, et al. Geraniol inhibits prostate cancer growth by targeting cell cycle and apoptosis pathways. Biochem Biops Res Commun. 2011 Apr 1;407(1):129-34.

[3]. Babukumar S, et al. Geraniol, a natural monoterpene, ameliorates perglycemia by attenuating the key enzymes of carbodrate metabolism in streptozotocin-induced diabetic rats. Pharm Biol. 2017 Dec;55(1):1442-1449.

[4]. Hosseini SM, et al. Geraniol attenuates oxidative stress, bioaccumulation, serological and histopathological changes during aluminum chloride-hepatopancreatic toxicity in male Wistar rats. Environ Sci Pollut Res Int. 2020 Jun;27(16):20076-20089.

[5]. Pereira Fde O, et al. Antifungal activity of geraniol and citronellol, two monoterpenes alcohols, against Trichopton rubrum involves inhibition of ergosterol biosynthesis. Pharm Biol. 2015 Feb;53(2):228-34.

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