
Product Data Sheet

Product Name: 1-Fluoronaphthalene

Cat. No.: GC67844

Chemical Properties

Cas. No. 321-38-0

Formula C₁₀H₇F

M.Wt 146.16

Solubility DMSO : 100 mg/mL (684.18 mM; Need ultrasonic) 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

1-Fluoronaphthalene is an organofluorine compound derived from naphthalene derivatives and fluorinated aromatics. 1-Fluoronaphthalene can be used to synthesize LY248686, a potent inhibitor of serotonin and noradrenaline uptake^[1].

1-Fluoronaphthalene (3 mg, 24 h) can be oxidized by *C.elegans* ATCC 36112 to form trans-3,4-dihydroxy-3,4-dihydro-1-fluoronaphthalene and trans-5,6-dihydroxy-5,6-dihydro-1-fluoronaphthalene and to form 1-fluoro-8-hydroxy-5-tetralone, 5-hydroxy-1-fluoronaphthalene and 4-hydroxy-1-fluoronaphthalene as well as glucosides, sulfates and glucuronide conjugates of these phenols^[1].

[1]. C E Cerniglia, et al. Effects of a fluoro substituent on the fungal metabolism of 1-fluoronaphthalene. Appl Environ Microbiol. 1984 Aug;48(2):294-300.

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

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