
Product Data Sheet

Product Name: Cinnamic acid-d6

Cat. No.: GC65528

Chemical Properties

Cas. No. 91453-04-2

Formula C₉H₂D₆O₂

M.Wt 154.2

Solubility DMSO : 250 mg/mL (1621.27 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

Cinnamic acid-d6 (3-Phenylacrylic acid-d6) is the deuterium labeled Cinnamic acid. Cinnamic acid has potential use in cancer intervention, with IC50s of 1-4.5 mM in glioblastoma, melanoma, prostate and lung carcinoma cells.

Stable heavy isotopes of hydrogen, 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]. Liu L, et al. Cinnamic acid: a natural product with potential use in cancer intervention. *Int J Cancer.* 1995 Jul 28;62(3):345-50.

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

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