

Product Data Sheet

Product Name: Cinnamamide

Cat. No.: GC40986

Chemical Properties

Cas. No. 621-79-4

SMILES NC(/C=C/C1=CC=CC=C1)=O

Formula C₉H₉NO

M.Wt 147.2

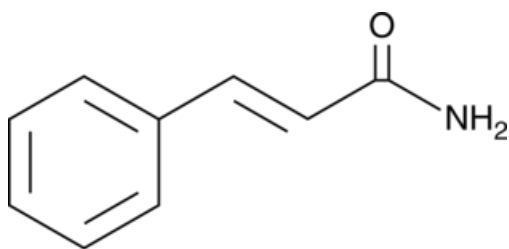
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:4): 0.20 mg/ml, Ethanol: 5 mg/ml

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 size: ship with RT, or blue ice upon request.

Structure



Background

Cinnamamide is an amide form of trans-cinnamic acid and a metabolite of Streptomyces. Cinnamamide exhibits low cytotoxicity against BEL-7402 human hepatoma cells and HT-1080 fibrosarcoma cells and inhibits cell growth (IC₅₀s = 1.94 and 1.29 mM, respectively). In vivo, cinnamamide (40 and 100 mg/kg, i.p.) reduces tumor weight in a mouse model of C26 murine colon carcinoma. Cinnamamide (75 and 150 mg/kg, i.p.) also reduces tumor weight in a mouse model of murine hepatoma 22 by 42% and 49%, respectively, without reducing body weight when delivered one or three days following tumor implantation. When presented with cinnamamide-treated food at a concentration of 0.8% w/w, house and wood mice food consumption is reduced to 32% and 17% of pretreatment levels, respectively, however, wood mouse consumption returns to pretrial levels by day two.

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

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