
Product Data Sheet

Product Name: Nepitrin
 Cat. No.: GC38985

Chemical Properties

Cas. No. 569-90-4

SMILES O=C1C=C(C2=CC=C(O)C(O)=C2)OC3=CC(O[C@H]4[C@@H]([C@H]([C@@H]([C@@H](CO)O4)O)O)O)=C(OC)C(O)=C13

Formula C₂₂H₂₂O₁₂

M.Wt 478.4

Solubility DMSO : 100 mg/mL (209.03 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

Nepitrin is a flavonoid glycoside that has been found in *S. plebeia* and has diverse biological activities.^{1,2,3} It protects lard from thermal oxidation when used at concentrations of 0.02 and 0.04%. Nepitrin inhibits carrageenin-induced edema and yeast-induced fever in rats.² It decreases serum levels of triglycerides and LDL, as well as increases serum HDL levels, in a rat model of high-fat diet-induced atherosclerosis when administered at doses of 20 and 50 mg/kg.³

1.Weng, X.C., and Weng, W. Antioxidant activity of compounds isolated from *Salvia plebeia* Food Chem. 71(4)489-493(2000) 2. Agarwal, O.P. The anti-inflammatory action of nepitrin, a flavonoid Agents Actions 12(3)298-302(1982) 3. Devi, S., Rangra, N.K., Rawat, R., et al. Anti-atherogenic effect of Nepitrin-7-O-glucoside: A flavonoid isolated from *Nepeta hindostana* via acting on PPAR - α receptor Steroids 165108770(2021)

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

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