

Product Data Sheet

Product Name: Isorhoifolin

Cat. No.: GC49142

Chemical Properties

Cas. No. 552-57-8

SMILES O=C1C2=C(O)C=C(O[C@@H]3O[C@@H]([C@H]([C@@H]([C@H]3O)O)O)CO[C@H]4[C@@H]([C@@H]([C@H]([C@@H](O4)C)O)O)O)C=C2OC(C5=CC=C(C=C5)O)=C1

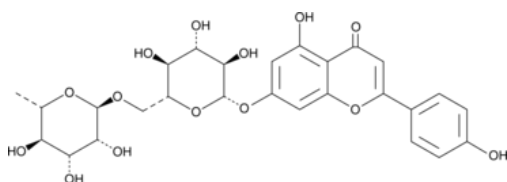
Formula C₂₇H₃₀O₁₄ M.Wt 578.5

Solubility DMSO : 100 mg/mL (172.85 mM; Need ultrasonic) Storage -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

Isorhoifolin is a flavonoid glycoside and an aglycone form of apigenin that has been found in *M. longifolia* and has diverse biological activities.^{1,2,3} It inhibits matrix metalloproteinase-1 (MMP-1), MMP-3, and MMP-13 (IC₅₀s = 0.33, 2.45, and 0.22 μM, respectively).¹ Isorhoifolin has antimutagenic properties in the *E. coli* WP2 tryptophan reverse mutation assay when used at a concentration of 2 μM.² It is active against *S. aureus* and *P. aeruginosa*, but not *E. coli* or *C. albicans*, in agar diffusion assays when used at a concentration of 140 μg/ml.³

1. Crasci, L., Basile, L., Panico, A., et al. Correlating in vitro target-oriented screening and docking: Inhibition of matrix metalloproteinases activities by flavonoids. *Planta Med.* 83(11):901-911 (2017)

2. Baris, O., Karadayi, M., Yanmis, D., et al. Isolation of 3 flavonoids from *Mentha longifolia* (L.) Hudson subsp. *longifolia* and determination of their genotoxic potentials by using the *E. coli* WP2 test

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

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systemJ. Food. Sci.76(9)T212-T217(2011) 3.Abu-Gharbieh, E., and Shehab, N.G.Therapeutic potentials of Crataegus azarolus var. eu- azarolus Maire leaves and its isolated compoundsBMC Complement. Altern. Med.17(1)218(2017)

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