PRODUCT INFORMATION



Isorhoifolin

Item No. 34036

CAS Registry No.: 552-57-8

Formal Name: 7-[[6-O-(6-deoxy- α -L-

> mannopyranosyl)-β-D-glucopyranosyl] oxy]-5-hydroxy-2-(4-hydroxyphenyl)-

4H-1-benzopyran-4-one

Apigenin-7-O-rutinoside Synonym:

MF: $C_{27}H_{30}O_{14}$ FW: 578.5 **Purity:** ≥95% Supplied as: A solid Storage: -20°C Stability: ≥4 years Item Origin: Fruit/Citrus peel

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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Isorhoifolin is supplied as a solid. A stock solution may be made by dissolving the isorhoifolin in the solvent of choice, which should be purged with an inert gas. Isorhoifolin is soluble in DMSO.

Description

Isorhoifolin is a flavonoid glycoside and an aglycone form of apigenin (Item No. 10010275) that has been found in M. longifolia and has diverse biological activities.¹⁻³ It inhibits matrix metalloproteinase-1 (MMP-1), MMP-3, and MMP-13 (IC₅₀s = 0.33, 2.45, and 0.22 μ M, respectively). 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

References

- 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).
- 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 system. J. 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 compounds. BMC Complement. Altern. Med. 17(1), 218 (2017).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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