

Product Data Sheet

Product Name: Spiraeoside

Cat. No.: GC64234

Chemical Properties

Cas. No. 20229-56-5

Formula C₂₁H₂₀O₁₂

M.Wt 464.38

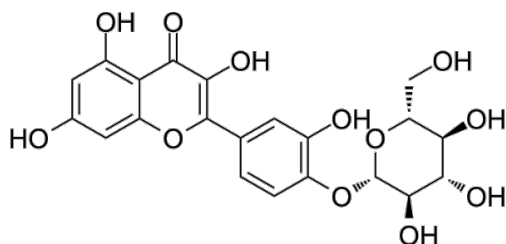
Solubility

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

Spiraeoside, an orally active natural compound, exerts antioxidant activity, inhibits reactive oxygen species (ROS) and malondialdehyde production. Spiraeoside possesses antiallergic, anti-inflammatory and antitumor activities[1].

Spiraeoside elevates HG stimulation-caused the decrease in the expression levels of p-Akt, nuclear Nrf2, and HO-1 in AC16 cells (the effects of Spiraeoside are reversed by LY294002)[1]. Spiraeoside protects AC16 cells against HG-induced oxidative stress, cell injury, and apoptosis[1]. Spiraeoside

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

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activates the PI3K/Akt/Nrf2 pathway in AC16 cells on exposure to HG[1].Spiraeoside protects AC16 cells against HG-induced apoptosis through the PI3K/Akt/Nrf2 pathway[1].

Spiraeoside (50 mg/kg, p.o.) shows ulcer preventive ability[2].

[1]. Hongyang Liu, et al. Spiraeoside protects human cardiomyocytes against high glucose-induced injury, oxidative stress, and apoptosis by activation of PI3K/Akt/Nrf2 pathway. J Biochem Mol Toxicol. 2020 Oct;34(10):e22548.

[2]. Stevan Samardžić, et al. Antioxidant, anti-inflammatory and gastroprotective activity of Filipendula ulmaria (L.) Maxim. and Filipendula vulgaris Moench. J Ethnopharmacol. 2018 Mar 1;213:132-137.

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