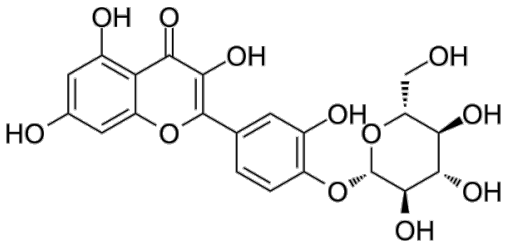
Product Data Sheet

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 reversedby LY294002)[1]. Spiraeoside protects AC16 cells against HG-induced oxidative stress, cell injury, and apoptosis[1]. Spiraeoside

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 Samard?i?, 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.

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