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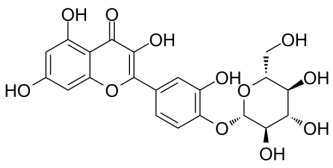
Spiraeoside

Cat. No.:	HY-N8253
CAS No.:	20229-56-5
Molecular Formula:	$C_{21}H_{20}O_{12}$
Molecular Weight:	464.38
Target:	Reactive Oxygen Species
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description

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].

In Vitro

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].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	AC16 cells.
Concentration:	1, 5, 10, or 20 μM.
Incubation Time:	0, 24, or 48 hours.
Result:	Inhibited AC16 cells viability (20 μM).

In Vivo

Spiraeoside (50 mg/kg, p.o.) shows ulcer preventive ability[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Wistar rats (6-8 weeks old)[2].
Dosage:	50 mg/kg.
Administration:	Oral gavage an hour before inducing the lesions.
Result:	Decreased severity of the formed lesions.

REFERENCES

[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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