

Niga-ichigoside F1

Chemical Properties

CAS No. : 95262-48-9

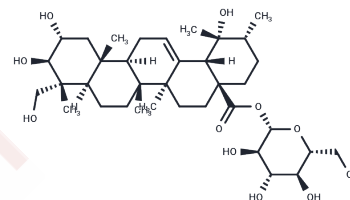
Formula: C₃₆H₅₈O₁₁

Molecular Weight: 666.85

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Niga-ichigoside F1 is a natural product that activates Nrf2 and improves high-fat diet-induced hepatic steatosis in male mice, while also inhibiting the NF-κB pathway to alleviate DSS-induced ulcerative colitis.
Targets(IC50)	NF-κB,Nrf2
In vitro	Niga-ichigoside F1 (2.5, 5, 10, and 20 μM, 24 hours) dose-dependently inhibited lipid accumulation in free fatty acid (FFA)-treated HepG2 cells, with no significant effect on cell viability [1]. In the control group, Niga-ichigoside F1 (20 μM)-treated group, free fatty acid (1 mM)-treated group, and Niga-ichigoside F1 combined with free fatty acid-treated Nrf2-silenced cells, the expression levels of Nrf2 in both the nucleus and cytoplasm were downregulated [1].

Solubility Information

Solubility	DMSO: 40.00 mg/mL (59.98 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4996 mL	7.4979 mL	14.9959 mL
5 mM	0.2999 mL	1.4996 mL	2.9992 mL
10 mM	0.150 mL	0.7498 mL	1.4996 mL
50 mM	0.030 mL	0.150 mL	0.2999 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Shu-Fang Xia, et al. Niga-ichigoside F1 ameliorates high-fat diet-induced hepatic steatosis in male mice by Nrf2 activation. Food Funct. 2018 Feb 21;9(2):906-916.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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