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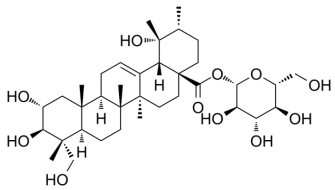
Niga-ichigoside F1

Cat. No.:	HY-N8144
CAS No.:	95262-48-9
Molecular Formula:	$C_{36}H_{58}O_{11}$
Molecular Weight:	666.84
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Niga-ichigoside F1, an orally active ursane triterpenoid, has antihyperlipidemic and antioxidant activities. Niga-ichigoside F1 can prevent high-fat diet (HFD)-induced hepatic steatosis[1].
In Vitro	Niga-ichigoside F1 (2.5, 5, 10, 20 μM; for 24 hours) inhibits lipid accumu-lation in free fatty acid (FFA)-treated HepG2 cells in a dose-dependent manner. Niga-ichigoside F1 has no effects on cell viability[1]. Both nuclear and cytoplasmic Nrf2 expressions are lowered in Con, Niga-ichigoside F1 (20 μM), FFA (1 mM), and Niga-ichigoside F1 plus FFA treated Nrf2-silenced cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Niga-ichigoside F1 (40 mg/kg; oral gavage; for 12 weeks) alleviates hepatic steatosis, possibly by significantly interacting with high-fat diet (HFD) to regulate lipid metabolism genes (including Srebp1c, Acc1, Fasn, Scd1, Cpt1a and Fabp5) in four-week-old male C57BL/6J mice[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

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

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