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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Gypenoside LI

Cat. No.: HY-N8207

CAS No.: 94987-10-7

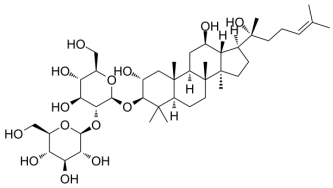
Molecular Formula: $C_{42}H_{72}O_{14}$

Molecular Weight: 801.01

Target: Apoptosis; MicroRNA

Pathway: Apoptosis; Epigenetics

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)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (124.84 mM; Need ultrasonic)

Preparing Stock Solutions	Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
	1 mM	1.2484 mL	6.2421 mL	12.4842 mL
	5 mM	0.2497 mL	1.2484 mL	2.4968 mL
	10 mM	0.1248 mL	0.6242 mL	1.2484 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Gypenoside LI, a gypenoside monomer, possesses anti-tumor activity. Gypenoside LI induces cell apoptosis, cell cycle and migration[1][2].

In Vitro

Gypenoside LI (0-80 μM) inhibits A549 cells in a dose-dependent manner. Gypenoside LI induces G2/M and arrest apoptosis in A549 cells[1].
Gypenoside LI increases intracellular ROS level. Gypenoside LI suppressed migration of A549 cells[1].
Gypenoside LI could obviously suppress the expression of CDK1 protein rather thanCDK2 and CDK4 proteins[1].
Gypenoside LI inhibits cell proliferation and upregulates expression of miR-128-3p in melanoma cells[2].
Gypenoside LI (75 and 29.71 μg/mL) can induce intrinsic apoptosis along with S phase arrest. Gypenoside LI inhibited the colony formation ability of melanoma through inhibition of the Wnt/β-catenin signaling pathway[2].
Gypenoside LI induces PARP cleavage, increased the expression of cleaved caspase-9 and BID death agonist, and downregulates the expression of FLIP (long form) and BCl-2 in the A375 and SK-MEL-28 melanoma cells[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	A549 cells.

Concentration:	0-80 μM.
Incubation Time:	24 h.
Result:	Displayed the strongest activity with the IC_{50} values of 21.36 ± 0.78 μM.

REFERENCES

[1]. Shao-Fang Xing, et al. The inhibitory effect of gypenoside stereoisomers, gypenoside L and gypenoside LI, isolated from Gynostemma pentaphyllum on the growth of human lung cancer A549 cells. J Ethnopharmacol. 2018 Jun 12;219:161-172.

[2]. Ma-Li Zu, et al. Monomer gypenoside LI from Gynostemma pentaphyllum inhibits cell proliferation and upregulates expression of miR-128-3p in melanoma cells. J Biochem Mol Toxicol. 2020 May;34(5):e22460.

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