SZABO SCANDIC

Part of Europa Biosite

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

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

Gypenoside L

Cat. No.: HY-N8211

CAS No.: 94987-09-4

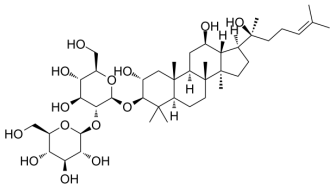
Molecular Formula: $C_{42}H_{72}O_{14}$

Molecular Weight: 801.01

Target: p38 MAPK; ERK; NF-κB

Pathway: MAPK/ERK Pathway; Stem Cell/Wnt; NF-κB

Storage: -20°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

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

Preparing Stock Solutions	Solvent / Mass / Concentration	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.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Gypenoside L is a saponin that can be found in Gynostemma pentaphyllum. Gypenoside L increases the SA-β-galactosidase activity, promotes the production of senescence-associated secretory cytokines. Gypenoside L also can activate p38 and ERK MAPK pathways and NF-κB pathway to induce senescence. Gypenoside L exhibits anti-tumor and anti-inflammatory activities[1][2].

In Vitro

Gypenoside L (20-80 μg/mL; 24 h) increases the mRNA expression levels of SASP, such as IL-1α, IL-6, TIMP-1, CXCL-1 and CXCL-2 in HepG2 and ECA-109 cells[1].
Gypenoside L (20-80 μg/mL; 24 h) causes cell cycle arrest at S phase[1].
GPL (3.125-100 μg/mL) significantly inhibits LPS-induced NO accumulation in RAW264.7 cells[2].

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

CUSTOMER VALIDATION

- Antioxid Redox Signal. 2022 Sep 7.
- Cytokine. 2023 Oct 16:172:156386.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Ma J, et, al. Gypenoside L Inhibits Proliferation of Liver and Esophageal Cancer Cells by Inducing Senescence. Molecules. 2019 Mar 18;24(6):1054.

[2]. Shen CY, et, al. Comparison of the Effects and Inhibitory Pathways of the Constituents from Gynostemma pentaphyllum against LPS-Induced Inflammatory Response. J Agric Food Chem. 2018 Oct 31;66(43):11337-11346.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA