



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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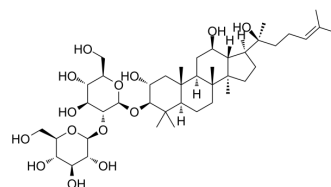
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## Gypenoside L

|                    |  |
|--------------------|--|
| Cat. No.:          | HY-N8211   |
| CAS No.:           | 94987-09-4   |
| Molecular Formula: | C <sub>42</sub> H <sub>72</sub> O <sub>14</sub>  |
| 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<br>* 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 Concentration | 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. |  |                       |      |       |           |           |            |
| In Vivo   | 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline<br>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)<br>Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution            |                       |      |       |           |           |            |
|   | 3. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (3.12 mM); Clear solution                            |                       |      |       |           |           |            |

### BIOLOGICAL ACTIVITY

|             |  |
|-------------|--|
| Description | Gypenoside L is a saponin that can be found in <i>Gynostemma pentaphyllum</i> . 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 <sup>[1][2]</sup> . |
| 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 <sup>[1]</sup> .<br>Gypenoside L (20-80 μg/mL; 24 h) causes cell cycle arrest at S phase <sup>[1]</sup> .<br>GPL (3.125-100 μg/mL) significantly inhibits LPS-induced NO accumulation in RAW264.7 cells <sup>[2]</sup> .                    |

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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](http://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.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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