



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## 2''-O-Rhamnosylcariside II

Item No. 36487

**CAS Registry No.:** 135293-13-9  
**Formal Name:** 3-[[6-deoxy-2-O-(6-deoxy- $\alpha$ -L-mannopyranosyl)- $\alpha$ -L-mannopyranosyl]oxy]-5,7-dihydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one

**Synonym:** 2''-O-Rhys II

**MF:** C<sub>33</sub>H<sub>40</sub>O<sub>14</sub>

**FW:** 660.7

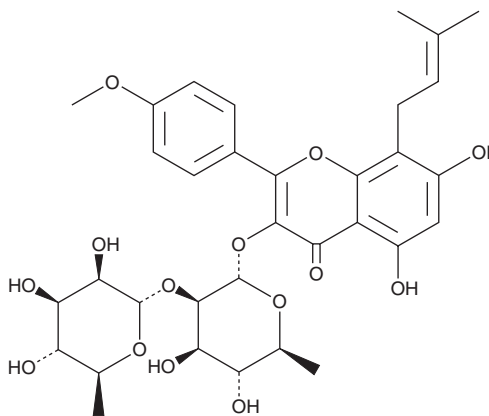
**Purity:**  $\geq$ 98%

**Supplied as:** A solid

**Storage:** -20°C

**Stability:**  $\geq$ 4 years

**Item Origin:** Plant/*Epimedium brevicornu*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

2''-O-Rhamnosylcariside II (2''-O-Rhys II) is supplied as a solid. A stock solution may be made by dissolving the 2''-O-Rhys II in the solvent of choice, which should be purged with an inert gas. 2''-O-Rhys II is soluble in DMSO.

### Description

2''-O-Rhys II is a flavonoid glycoside that has been found in *Epimedium* and has hepatotoxic activity.<sup>1,2</sup> It increases aspartate aminotransferase (AST), lactate dehydrogenase (LDH), and malondialdehyde (MDA) levels, as well as decreases glutathione (GSH) levels in HL 7702 cells when used at a concentration of 66  $\mu$ g/ml. 2''-O-Rhys II (100  $\mu$ M) induces 100% mortality in zebrafish larvae.<sup>2</sup> It also induces hepatocellular vacuolization and degeneration in adult zebrafish when used at a concentration of 25  $\mu$ M.

### References

1. Zhang, L., Wang, T., Zhao, B.-S., et al. Effect of 2''-O-rhamnosyl icariside II, baohuoside I and baohuoside II in *Herba epimedii* on cytotoxicity indices in HL-7702 and HepG2 cells. *Molecules* **24**(7), 1236 (2019).
2. Zhong, R., Chen, Y., Ling, J., et al. The toxicity and metabolism properties of *Herba epimedii* flavonoids on larval and adult zebrafish. *Evid. Based Complement. Alternat. Med.* 3745051 (2019).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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