



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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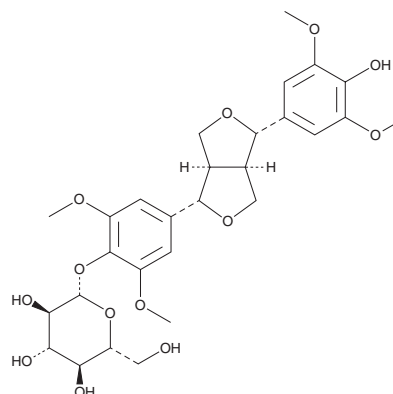
# PRODUCT INFORMATION



## Acanthoside B

Item No. 40280

**CAS Registry No.:** 7374-79-0  
**Formal Name:** 2,6-dimethoxy-4-[(1S,3aR,4S,6aR)-tetrahydro-4-(4-hydroxy-3,5-dimethoxyphenyl)-1H,3H-furo[3,4-c]furan-1-yl]phenyl-β-D-glucopyranoside  
**Synonym:** Eleutheroside E1  
**MF:** C<sub>28</sub>H<sub>36</sub>O<sub>13</sub>  
**FW:** 580.6  
**Purity:** ≥95%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Synthetic



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

### Laboratory Procedures

Acanthoside B is supplied as a solid. A stock solution may be made by dissolving the acanthoside B in the solvent of choice, which should be purged with an inert gas. Acanthoside B is soluble in methanol and acetonitrile.

### Description

Acanthoside B is a lignan that has been found in *P. villosa* and has diverse biological activities.<sup>1-3</sup> It scavenges DPPH (Item No. 14805) and ABTS (Item No. 27317) radicals in cell-free assays (IC<sub>50</sub>s = 9.9 and 12.7 μM, respectively).<sup>1</sup> Acanthoside B (20 μM) inhibits LPS-induced nitric oxide (NO) production in RAW 264.7 cells.<sup>2</sup> *In vivo*, acanthoside B (20 mg/kg) reverses scopolamine-induced memory impairment, reduces hippocampal malondialdehyde (MDA) levels, and increases hippocampal superoxide dismutase (SOD), catalase, and glutathione peroxidase (GPX) levels in a mouse model of scopolamine-induced amnesia.<sup>3</sup>

### References

- Bai, M., Li, S.-F., Liu, S.-F., *et al.* Iridoid glycoside and lignans from a wild vegetable (*Patrinia villosa* Juss.) with antioxidant activity. *J. Food Biochem.* **42(3)**, e12521 (2018).
- Li, J., Guo, X., Luo, Z., *et al.* Chemical constituents from the flowers of *Inula japonica* and their anti-inflammatory activity. *J. Ethnopharmacol.* **318(Pt. B)**, 117052 (2024).
- Karthivashan, G., Kweon, M.-H., Park, S.-Y., *et al.* Cognitive-enhancing and ameliorative effects of acanthoside B in a scopolamine-induced amnesic mouse model through regulation of oxidative/inflammatory/cholinergic systems and activation of the TrkB/CREB/BDNF pathway. *Food Chem. Toxicol.* **129**, 444-457 (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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