



# 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

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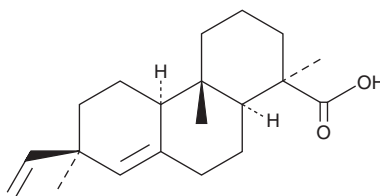
# PRODUCT INFORMATION



## Continentalic Acid

Item No. 35240

**CAS Registry No.:** 19889-23-7  
**Formal Name:** (1R,4aS,4bR,7R,10aS)-7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-1-phenanthrenecarboxylic acid  
**Synonym:** Pimaradienoic Acid  
**MF:** C<sub>20</sub>H<sub>30</sub>O<sub>2</sub>  
**FW:** 302.5  
**Purity:** ≥90%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Plant/*Aralia continentalis*



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

### Laboratory Procedures

Continentalic acid is supplied as a solid. A stock solution may be made by dissolving the continentalic acid in the solvent of choice, which should be purged with an inert gas. Continentalic acid is soluble in the organic solvent DMSO at a concentration of approximately 10 mM.

### Description

Continentalic acid is a diterpene acid that has been found in *A. continentalis* and has diverse biological activities.<sup>1-4</sup> It is active against methicillin-susceptible *S. aureus* (MSSA) and clinical isolates of methicillin-resistant *S. aureus* (MRSA; MICs = 8 and 8-16 µg/ml, respectively).<sup>1</sup> Continentalic acid (200 µM) induces apoptosis in U-2932, OCI-LY1, and Ramos (RA 1) B cell lymphoma cells.<sup>2</sup> *In vivo*, continentalic acid (50 mg/kg) decreases blood glucose levels, total body weight, and serum triglyceride, total cholesterol, and LDL levels, as well as increases serum HDL levels in a rat model of diabetes induced by alloxan (Item No. 9002196).<sup>3</sup> It also improves renal function and decreases renal malondialdehyde (MDA) and peroxidase levels, nitric oxide (NO) production, and neutrophil infiltration in a mouse model of *E. coli*- and LPS-induced renal injury.<sup>4</sup>

### References

1. Jeong, S.-I., Han, W.-S., Yun, Y.-H., *et al.* Continentalic acid from *Aralia continentalis* shows activity against methicillin-resistant *Staphylococcus aureus*. *Phytother. Res.* **20(6)**, 511-514 (2006).
2. Jeon, B.-E., Kwon, C.-S., Lee, J.-E., *et al.* Anticancer activity of continentalic acid in B-cell lymphoma. *Molecules* **26(22)**, 6845 (2021).
3. Liaquat, I., Khan, A.-U., and Khan, S. Pharmacological evaluation of continentalic acid for antidiabetic potential. *Biomed. Pharmacother.* **138**, 111411 (2021).
4. Khan, A.M., Khan, A.U., Ali, H., *et al.* Continentalic acid exhibited nephroprotective activity against the LPS and *E. coli*-induced kidney injury through inhibition of the oxidative stress and inflammation. *Int. Immunopharmacol.* **80**, 106209 (2020).

**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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