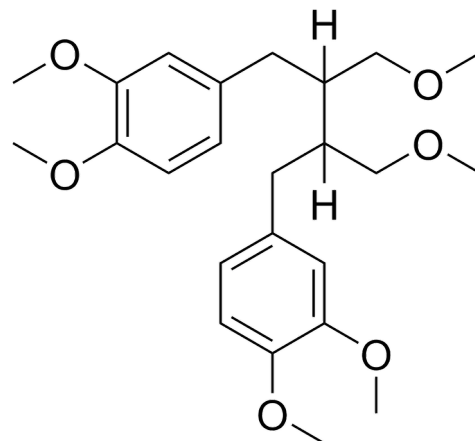


Phyllanthin

CAS Registry No.	: 10351-88-9
Molecular Formula	: $C_{24}H_{34}O_6$
Synonyms	: (2S,3S)-(+)-1,4-Dimethoxy -2,3-diveratrerylbutane
Molecular Weight	: 418.52 g/mol
Purity	: $\geq 90\%$ (HPLC)
Form	: White Powder
Source	: <i>Phyllanthus niruri</i> Linn.



Description:

Phyllanthin is lignan compound and major constituent of *Phyllanthus niruri* and *Phyllanthus amarus*, plants that are traditionally applied in the treatment of many liver diseases¹. It is a dibenzylbutane-type lignan with two simple phenylpropanoids bounded by C-8 and C-8'. The phenylpropanoid structure of phyllanthin is a catechol derivative, allowing it to possess antiviral activity depending on the position and structure of the functional groups attached to the aromatic skeleton². Phyllanthin, among other components of *Phyllanthus niruri* have been shown to inhibit the growth of microorganisms by inhibiting cell wall synthesis, disrupting cell membrane integrity, and interfering with DNA replication and transcription³.

References:

- 1 Chirdchupunseree, H., & Pramyothin, P. (2010). Protective activity of phyllanthin in ethanol-treated primary culture of rat hepatocytes. *Journal of Ethnopharmacology*, 128(1), 172–176. <https://doi.org/10.1016/j.jep.2010.01.003>
- 2 Marhaeny, H. D., Widyawaruyanti, A., Widiandani, T., Hafid, A. F., & Wahyuni, T. S. (2021). Phyllanthin and hypophyllanthin, the isolated compounds of *Phyllanthus niruri* inhibit protein receptor of corona virus (COVID-19) through in silico approach. *Journal of Basic and Clinical Physiology and Pharmacology*, 32(4), 809–815. <https://doi.org/10.1515/jbcpp-2020-0473>
- 3 Manna, S., & De, D. (2025). ANTIMICROBIAL STUDIES ON BHUMI AMLA (PHYLLANTHUS NIRURI). In *Blueprints of Life: Unlocking the Power of Modern Biotechnology* (pp. 142–150). <https://doi.org/10.65525/svup.9788198800473.2025.142-150>

Contact

Phone : +62 878-3544-7441
Email : info@markherb.com
Web : www.markherb.com

Head Office:

EBM Scientific and Technology, Ltd.
(EBM Scitech) ITB Innovation Park Bandung
Technopolis, Gedung 1 Lt. 8, Summarecon Bandung,
Gedebage, Bandung, West Java 40295, Indonesia

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