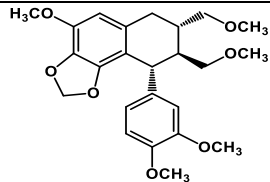


Hypophyllanthin

Name of the Phytochemical	Hypophyllanthin
Chemical Structure	
Botanical Source	Phyllanthus amarus
CAS Number	33676-00-5
Functional Activity	<ul style="list-style-type: none"> • Inhibitor of P-glycoprotein (P-gp) • Exhibits anti-inflammatory activity
Key References	<ol style="list-style-type: none"> 1. An improved HPLC method for estimation of phyllanthin and hypophyllanthin in Phyllanthus amarus. Journal of Natural Remedies, 2001, 1, 55-59 2. Phyllanthin and hypophyllanthin inhibit function of P-gp but not MRP2 in Caco-2 cells. J. Pharm. Pharmacology, 2012, 65, 292-299 3. <u>Anti-Inflammatory Effects of Hypophyllanthin and Niranthin Through Downregulation of NF-κB/MAPKs/PI3K-Akt Signaling Pathways.</u> Inflammation, 2018, 41, 984-995 4. <u>Phyllanthin and hypophyllanthin inhibit function of P-gp but not MRP2 in Caco-2 cells.</u> J Pharm Pharmacol., 2013, 65, 292-9 5. Phyllanthin and hypophyllanthin inhibit function of P-gp but not MRP2 in Caco-2 cells. Journal of Pharmacy and Pharmacology, 2012, 65, 292-299

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| | <ol style="list-style-type: none">6. Estrogenic Properties of Phyllanthin and Hypophyllanthin from <i>Phyllanthus amarus</i> against Carbofuran Induced Toxicity in Female Rats. Pharmacologyonline, 2008, 3, 1006-10167. Protective Effects of <i>Phyllanthus amarus</i> Against Lipopolysaccharide-Induced Neuroinflammation and Cognitive Impairment in Rats. Frontiers in pharmacology, 2019, 10, 632-6328. In Vitro Chondroprotective Potential of Extracts Obtained from Various <i>Phyllanthus</i> Species. Planta medica, 2016, 83, 87-969. Natural polyphenols prevent indomethacin-induced and diclofenac-induced Caco-2 cell death by reducing endoplasmic reticulum stress regardless of their direct reactive oxygen species scavenging capacity. The Journal of pharmacy and pharmacology, 2020, 72, 583-59110. Anti-HBV activity of the different extracts from <i>Phyllanthus rheedei</i> Wight in cell culture based assay systems. Journal of ethnopharmacology, 2014, 156, 309-31511. Hypophyllanthin and Phyllanthin from <i>Phyllanthus niruri</i> Synergize Doxorubicin Anticancer Properties against Resistant Breast Cancer Cells. ACS Omega 2023, 8, 31, 28563–28576 |
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