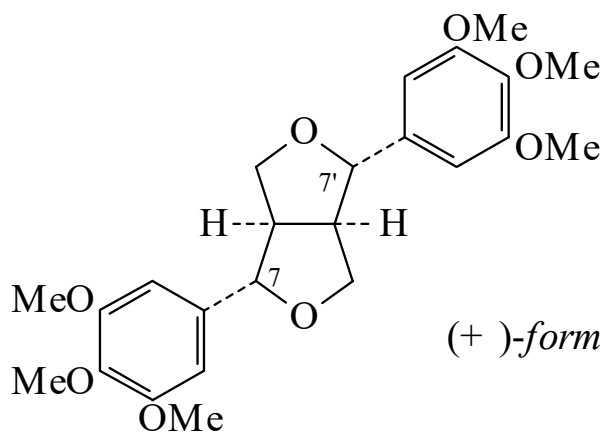




>>Entry Name: Yangambin

**Synonym(s):** Tetrahydro-1,4-bis(3,4,5-trimethoxyphenyl)-1*H*,3*H*-furo[3,4-*c*]furan, 9Cl. 2,6-Bis(3,4,5-trimethoxyphenyl)-3,7-dioxabicyclo[3.3.0]octane. 3,3',4,4',5,5'-Hexamethoxy-7,9':7',9-diepoxyignan. Di-*O*-methylsyringaresinol. Di-*O*-methylirioresinol B



**CAS Registry Number:** 13060-14-5

**Molecular Formula:** C<sub>24</sub>H<sub>30</sub>O<sub>8</sub>

**Molecular Weight:** 446.496

**Accurate Mass:** 446.19407

**Percentage Composition:** C 64.56%; H 6.77%; O 28.67%

**Biological Source:** Lignan from fruits of *Piper guineense* and leaves of *Eremophila glabra*

**Use/Importance:** Platelet aggregation inhibitor

**Physical Description:** Needles (EtOH), prisms (MeOH)

**Melting Point:** Mp 125.5-126.5° (122-123°)

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub> +46.6 (c, 6.18 in CHCl<sub>3</sub>)

**UV:** [neutral]  $\lambda_{\max}$  207 ( $\epsilon$  61700); 230 (sh) ( $\epsilon$  14500); 268 ( $\epsilon$  14500) (MeOH) (Derep)

>>Derivative: 7-Epimer

**Synonym(s):** 7-Epiyangambin

**CAS Registry Number:** 24192-64-1

**Molecular Formula:** C<sub>24</sub>H<sub>30</sub>O<sub>8</sub>

**Molecular Weight:** 446.496

**Accurate Mass:** 446.19407

**Percentage Composition:** C 64.56%; H 6.77%; O 28.67%

**Biological Source:** Constit. of *Virola elongata* and *Artemisia* spp.

**Physical Description:** Cryst. (Et<sub>2</sub>O)

**Melting Point:** Mp 119-120°

**Optical Rotation:** [ $\alpha$ ]<sub>D</sub><sup>25</sup> +122 (CHCl<sub>3</sub>)

**UV:** [neutral]  $\lambda_{\max}$  210 (log  $\epsilon$  4.8); 238 (sh) (log  $\epsilon$  4.11); 272 (log  $\epsilon$  3.51) (MeOH)

>>Derivative: 7-Epimer, 4'-*O*-de-Me

**Synonym(s):** 4'-De-*O*-methylepiyangambin

**CAS Registry Number:** 188564-12-7

**Molecular Formula:** C<sub>23</sub>H<sub>28</sub>O<sub>8</sub>

**Molecular Weight:** 432.469

**Accurate Mass:** 432.17842

**Percentage Composition:** C 63.88%; H 6.53%; O 29.60%

**Biological Source:** Constit. of *Ocotea duckei*