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**Product Data Sheet**

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Product Name: Yangambin

Cat. No.: GC37950

**Chemical Properties**

Cas. No. 13060-14-5

SMILES COC1=C(OC)C(OC)=CC([C@H]2OC[C@]3([H])[C@@H](C4=CC(OC)=C(OC)C(OC)=C4)OC[C@@]32[H])=C1Formula C<sub>24</sub>H<sub>30</sub>O<sub>8</sub> M.Wt 446.49

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Yangambin, a furofuran lignan, is already isolated from plants such as member of the Annonaceae family, including species of the genus Rollinia: *R. pickeli*, *R. exalbida* and *R. mucosa*, as well from the *Magnolia biondii*. Yangambin, a selective PAF receptor antagonist, inhibits Ca<sup>2+</sup> influx through voltage-gated Ca<sup>2+</sup> channels, leading to the reduction in [Ca<sup>2+</sup>]<sub>i</sub> in vascular smooth muscle cells and consequent peripheral vasodilation[1]. Yangambin exhibits the anti-allergic activity against β-hexosaminidase release with an IC<sub>50</sub> of 33.8 μM and for anti-inflammatory activity with an IC<sub>50</sub> of 37.4 μM[2]. Ca<sup>2+</sup>

[1]. AraÚjo IG, et al. Calcium influx inhibition is involved in the hypotensive and vasorelaxant effects induced by yangambin. *Molecules*. 2014 May 23;19(5):6863-76. [2]. Jindaporn Puripattavong, et al. Anti-allergic and anti-inflammatory compounds from *Aglaia andamanica* leaves. *Songklanakarin J. Sci. Technol.* 2015,37 (1), 37-41.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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