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## Product Data Sheet

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Product Name: Licoflavone C

Cat. No.: GC36449

### Chemical Properties

Cas. No. 72357-31-4

SMILES O=C1C=C(C2=CC=C(O)C=C2)OC3=C(C/C=C(C)\C)C(O)=CC(O)=C13Formula C<sub>20</sub>H<sub>18</sub>O<sub>5</sub> M.Wt 338.35

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

Licoflavone C is a prenylated flavone that has been found in *G. ephedroides* and has diverse biological activities.<sup>1,2,3</sup> It induces estrogen receptor-dependent gene expression in *S. cerevisiae* expressing human estrogen receptor  $\alpha$  (ER $\alpha$ ) in a reporter assay when used at a concentration of 0.1  $\mu$ M.<sup>1</sup> Licoflavone C inhibits LPS-induced production of nitric oxide (NO) in RAW 264.7 macrophages (IC<sub>50</sub> = 20.4  $\mu$ M).<sup>2</sup> It is active against *E. coli*, *P. aeruginosa*, and various strains of *Candida* (MICs = 7.81-15.62  $\mu$ g/ml) and is cytotoxic to HepG2 cells (IC<sub>50</sub> = 9  $\mu$ g/ml).<sup>3</sup>

1. Garritano, S., Pinto, B., Giachi, I., et al. Assessment of estrogenic activity of flavonoids from Mediterranean plants using an in vitro short-term test *Phytomedicine* 12(1-2):143-147(2005)  
 2. Han, A.-R., Kang, Y.-J., Windono, T., et al. Prenylated flavonoids from the heartwood of *Artocarpus communis* with inhibitory activity on lipopolysaccharide-induced nitric oxide production *J. Nat. Prod.* 69(4):719-721(2006)  
 3. Edziri, H., Mastouri, M., Mahjoub, M.A., et al. Antibacterial, antifungal and cytotoxic activities of two flavonoids from *Retama raetam* flowers *Molecules* 17(6):7284-7293(2012)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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