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**Product Data Sheet**


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Product Name: Galgravin

Cat. No.: GC38610

**Chemical Properties**

Cas. No. 528-63-2

SMILES C[C@H]1[C@@H](C)[C@H](C2=CC=C(OC)C(OC)=C2)O[C@@H]1C3=CC=C(OC)C(OC)=C3

Formula C<sub>22</sub>H<sub>28</sub>O<sub>5</sub> M.Wt 372.45

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**

Galgravin is a lignan that has been found in *N. megapotamica* and has diverse biological activities.<sup>1,2,3,4</sup> It inhibits the binding of platelet-activating factor (PAF) to isolated rabbit platelet plasma membranes (IC<sub>50</sub> = 4.5 μM).<sup>1</sup> Galgravin (3-100 μM) inhibits osteoclast formation induced by RANKL and macrophage colony-stimulating factor (M-CSF) in mouse bone marrow-derived macrophages.<sup>2</sup> It protects against cytotoxicity induced by human amyloid-β (25-35) (Aβ (25-35); Item No. 24155) in primary rat hippocampal neurons when used at a concentration of 10 μM.<sup>3</sup> Galgravin (20 mg/kg) reduces acetic acid-induced abdominal constrictions in mice and carrageenan-induced paw edema in rats.<sup>4</sup>

1. Biftu, T., Gamble, N.F., Doebber, T., et al. Conformation and activity of tetrahydrofuran lignans and analogues as specific platelet activating factor antagonists. *J. Med. Chem.* 29(10):1917-1921 (1986) 2. Asai, M., Lee, J.-W., Itakura, Y., et al. Effects of veraguensin and galgravin on osteoclast differentiation and

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

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functionCytotechnology64(3)315-322(2012) 3.Zhai, H., Inoue, T., Moriyama, M., et al.Neuroprotective effects of 2,5-diaryl-3,4-dimethyltetrahydrofuran neolignansBiol. Pharm. Bull.28(2)289-293(2005) 4.da Silva Filho, A.A., Andrade e Silva, M.L., Carvalho, J.C.T., et al.Evaluation of analgesic and anti-inflammatory activities of Nectandra megapotamica (Lauraceae) in mice and ratsJ. Pharm. Pharmacol.56(9)1179-1184(2004)

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