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**Product Data Sheet**


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Product Name: Murrayone

Cat. No.: GC39060

**Chemical Properties**

Cas. No. 19668-69-0

SMILES O=C1C=CC2=CC=C(OC)C(CC(C(C)=C)=O)=C2O1Formula  $C_{15}H_{14}O_4$  M.Wt 258.27

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**

Murrayone is a coumarin that has been found in *L. japonicus* and has fungicidal and antiplatelet activities.<sup>1,2</sup> It is active against the plant pathogenic fungi *T. cucumeris* and *C. capsici* ( $EC_{50}$ s = 46.9 and 24.9  $\mu$ g/ml, respectively) but not *S. sclerotiorum*, *B. cinerea*, or *F. graminearum* ( $EC_{50}$ s = >50  $\mu$ g/ml for all).<sup>2</sup> Murrayone also inhibits ADP-induced platelet aggregation *in vitro*.<sup>1</sup>

1. Yang, H., Zhou, Q.-m., Peng, C., et al. Coumarins from *Leonurus japonicus* and their anti-platelet aggregative activity. *Zhongguo Zhong Yao Za Zhi* 39(22):4356-4359(2014)

2. Song, P.-P., Zhao, J., Liu, Z.-L., et al. Evaluation of antifungal activities and structure-activity relationships of coumarin derivatives. *Pest Manag. Sci.* 73(1):94-101(2017)

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

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