

## Product Data Sheet

Product Name: 5-Methoxycanthinone

Cat. No.: GC46705

### Chemical Properties

Cas. No. 15071-56-4

SMILES O=C1C(OC)=CC2=C3C(C4=C(C=CC=C4)N31)=CC=N2

Formula C<sub>15</sub>H<sub>10</sub>N<sub>2</sub>O<sub>2</sub>

M.Wt 250.3

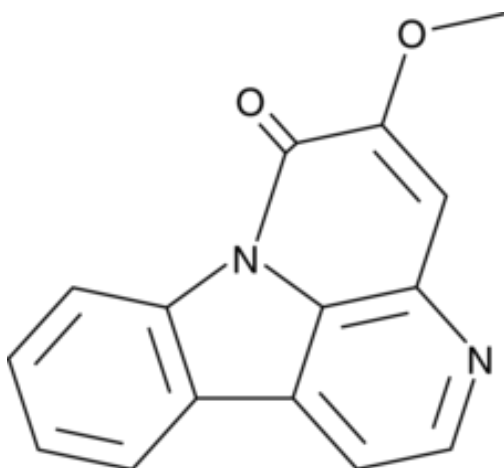
Solubility

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

5-Methoxycanthinone is an alkaloid that has been found in *L. floridana* and has anticancer properties.<sup>1</sup> It is cytotoxic to KB, A549, and HCT-8 cells (EC<sub>50</sub>s = 2.9, 3.1, and 2.5 µg/ml, respectively). It is active against the *P. falciparum* mefloquine-resistant strain F32 and the multidrug and chloroquine-resistant strain K1 (IC<sub>50</sub>s = 10.4 and 5.1 µg/ml, respectively).<sup>2</sup> However, it increases the parasite load by 68.4% in a mouse model of leishmaniasis when administered at a dose of 10 mg/kg per day.<sup>3</sup>

**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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1.Xu, Z., Chang, F.R., Wang, H.-K., et al.Anti-HIV agents 45 and antitumor agents 205. Two new sesquiterpenes, leitneridanins A and B, and the cytotoxic and anti-HIV principles from *Leitneria floridana*J. Nat. Prod.63(12)1712-1715(2000) 2.Cebrián-Torrejón, G., Spelman, K., Leblanc, K., et al.The antiplasmodium effects of a traditional South American remedy: *Zanthoxylum chiloperone* var. *angustifolium* against chloroquine resistant and chloroquine sensitive strains of *Plasmodium falciparum*Revista Brasileira de Farmacognosia21(4)652-661(2011) 3.Ferreira, M.E., Rojas de Arias, A., Torres de Ortiz, S., et al.Leishmanicidal activity of two canthin-6-one alkaloids, two major constituents of *Zanthoxylum chiloperone* var. *angustifolium*J. Ethnopharmacol.80(2-3)199-202(2002)

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