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**Product Data Sheet**

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Product Name: Sideroxylin

Cat. No.: GC62242

**Chemical Properties**

Cas. No. 3122-87-0

Formula  $C_{18}H_{16}O_5$ 

M.Wt 312.32

Solubility DMSO : 15.5 mg/mL (49.63 mM; Need ultrasonic and warming)

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**

Sideroxylin is a C-methylated flavone isolated from *Callistemon lanceolatus* and exerts antimicrobial activity against *Staphylococcus aureus*. Sideroxylin inhibits ovarian cancer cell proliferation and induces apoptosis, causing DNA fragmentation, depolarization of the mitochondrial membrane, the generation of reactive oxygen species (ROS)[1].

[1]. Sunwoo Park, et al. Sideroxylin (*Callistemon Lanceolatus*) Suppressed Cell Proliferation and Increased Apoptosis in Ovarian Cancer Cells Accompanied by Mitochondrial Dysfunction, the Generation of Reactive Oxygen Species, and an Increase of Lipid Peroxidation. *J Cell Physiol.* 2018 Nov;233(11):8597-8604.

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

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