**PRODUCT INFORMATION**

**Graphislactone A**  
*Item No. 23643*

- **CAS Registry No.:** 52179-44-9  
- **Formal Name:** 4,7-dihydroxy-3,9-dimethoxy-1-methyl-6H-dibenzo[b,d]pyran-6-one  
- **MF:** C_{16}H_{14}O_{6}  
- **FW:** 302.3  
- **Purity:** ≥ 95%  
- **Supplied as:** A solid  
- **Storage:** -20°C  
- **Stability:** ≥ 2 years

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

Graphislactone A is supplied as a solid. A stock solution may be made by dissolving the graphislactone A in the solvent of choice. Graphislactone A is soluble in organic solvents such as methanol, ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas.

### Description

Graphislactone A is an antioxidant produced by *Cephalosporium* IFB-E001 and *M. olivacea*.\(^1\)\(^2\) It exhibits dose-dependent scavenging activity against DPPH radicals and metal ion-dependent hydroxyl radicals in vitro.\(^1\) Graphislactone A reduces peroxidation of human LDL and slows peroxidation of linoleic acid (Item Nos. 90150 | 21909) by 4.4-fold. It also inhibits acetylcholinesterase (AChE) with an IC\(_{50}\) value of 27 μM.\(^2\)

### References