
Product Data Sheet

Product Name: Graphislactone A

Cat. No.: GC18788

Chemical Properties

Cas. No. 52179-44-9

Chemical Name 4,7-dihydroxy-3,9-dimethoxy-1-methyl-6H-dibenzo[b,d]pyran-6-one

SMILES O=C1OC2=C(O)C(OC)=CC(C)=C2C3=C1C(O)=CC(OC)=C3Formula $C_{16}H_{14}O_6$ M.Wt 302.3

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**

Graphislactone A is an antioxidant produced by *Cephalosporium IFB-E001* and *M. olivacea*. It exhibits dose-dependent scavenging activity against DPPH radicals and metal ion-dependent hydroxyl radicals in vitro. Graphislactone A reduces peroxidation of human LDL and slows peroxidation of linoleic acid by 4.4-fold. It also inhibits acetylcholinesterase (AChE) with an IC₅₀ value of 27 μM.

References:

[1]. Song, Y.C., Huang, W.Y., Sun, C., et al. Characterization of graphislactone A as the antioxidant and free radical-scavenging substance from the culture of *Cephalosporium* sp. IFB-E001, an endophytic fungus in *Trachelospermum jasminoides* Biol. Pharm. Bull. 28(3), 506-509 (2005).

[2]. Hormazabal, E., Schmeda-Hirschmann, G., Astudillo, L., et al. Metabolites from *Microsphaeropsis olivacea*, an endophytic fungus of *Pilgerodendron uviferum* Z. Naturforsch. C. 60(1-2), 11-21 (2005).

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

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