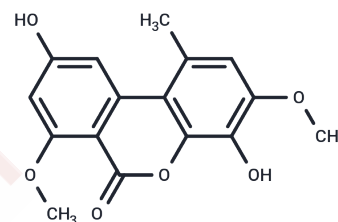


Graphislactone A

Chemical Properties

CAS No. :	52179-44-9
Formula:	C ₁₆ H ₁₄ O ₆
Molecular Weight:	302.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	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 IC ₅₀ value of 27 μM.
Targets(IC ₅₀)	Others,Cholinesterase (ChE)

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3082 mL	16.541 mL	33.0819 mL
5 mM	0.6616 mL	3.3082 mL	6.6164 mL
10 mM	0.3308 mL	1.6541 mL	3.3082 mL
50 mM	0.0662 mL	0.3308 mL	0.6616 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- 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).
- 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).

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