

Oxyphyllacinol

Chemical Properties

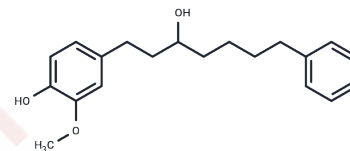
CAS No. : 87657-77-0

Formula: C₂₀H₂₆O₃

Molecular Weight: 314.42

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Oxyphyllacinol is a compound isolated from the fruits of <i>Alpinia oxyphylla</i> with potential antioxidant and anti-aging activity for dementia research.
Targets(IC50)	Antioxidant

Solubility Information

Solubility	DMSO: 80 mg/mL (254.44 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (10.5 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1805 mL	15.9023 mL	31.8046 mL
5 mM	0.6361 mL	3.1805 mL	6.3609 mL
10 mM	0.318 mL	1.5902 mL	3.1805 mL
50 mM	0.0636 mL	0.318 mL	0.6361 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

Chen F, et al. Identification of known chemicals and their metabolites from Alpinia oxyphylla fruit extract in rat plasma using liquid chromatography/tandem mass spectrometry (LC-MS/MS) with selected reaction monitoring. J Pharm Biomed Anal. 2014 Aug;97:166-77.

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