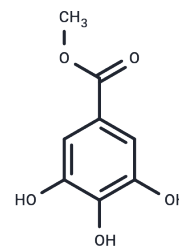


Methyl gallate

Chemical Properties

CAS No. :	99-24-1
Formula:	C ₈ H ₈ O ₅
Molecular Weight:	184.15
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	Methyl gallate (Gallincin) is a reverse transcriptase inhibitor with antioxidant, anti-HIV-1 and HIV-1 enzyme inhibition activities.
Targets(IC50)	Reactive Oxygen Species,HIV Protease,Reverse Transcriptase,Antibacterial,ROS

Solubility Information

Solubility	DMSO: 250 mg/mL (1357.59 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: 2 mg/mL (10.86 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	5.4304 mL	27.1518 mL	54.3036 mL
5 mM	1.0861 mL	5.4304 mL	10.8607 mL
10 mM	0.543 mL	2.7152 mL	5.4304 mL
50 mM	0.1086 mL	0.543 mL	1.0861 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

Wang CR, et al. Environ Toxicol Pharmacol. 2014 Mar;37(2):626-37.

Hwang Y H, Jang S A, Kim T, et al. Anti-osteoporotic and Anti-adipogenic Effects of Rhus chinensis Nutgalls in Ovariectomized Mice Fed with a High-fat Diet. Planta Medica. 2019, 85(14/15): 1128-1135

Hwang Y H, Jang S A, Kim T, et al. Anti-osteoporotic and Anti-adipogenic Effects of Rhus chinensis Nutgalls in Ovariectomized Mice Fed with a High-fat Diet[J]. Planta medica. 2019.

Hu Q, Wang S, Cheng R, et al. Tannins in Phyllanthus emblica L. improves Cisplatin efficacy in lung cancer cells by boosting endoplasmic reticulum stress to trigger Immunogenic Cell Death. Phytomedicine. 2023: 155219.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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