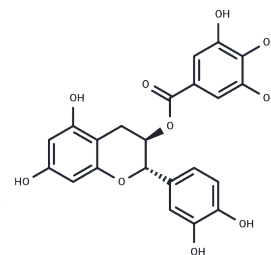


(-)-Catechin gallate

Chemical Properties

CAS No. :	130405-40-2
Formula:	C ₂₂ H ₁₈ O ₁₀
Molecular Weight:	442.37
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	(-)-Catechin gallate ((-)-Catechin 3-O-gallate) displays inhibition of 6PGD, IDH. (-)-Catechin gallate ((-)-Catechin 3-O-gallate) displays inhibition of human Beta-secretase. (-)-Catechin gallate ((-)-Catechin 3-O-gallate) possesses antiplasmodial activity against chloroquine-sensitive Plasmodium falciparum NF54 and chloroquine-resistant Plasmodium falciparum K1.
Targets(IC50)	COX

Solubility Information

Solubility	DMSO: 50 mg/mL (113.03 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 (4.52 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	2.2606 mL	11.3028 mL	22.6055 mL
5 mM	0.4521 mL	2.2606 mL	4.5211 mL
10 mM	0.2261 mL	1.1303 mL	2.2606 mL
50 mM	0.0452 mL	0.2261 mL	0.4521 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

Babich H, et al. In vitro cytotoxicity of (-)-catechin gallate, a minor polyphenol in green tea. *Toxicol Lett.* 2007 Jul 10;171(3):171-80.

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