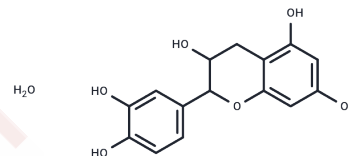


(+)-Catechin Hydrate

Chemical Properties

CAS No. :	225937-10-0
Formula:	C ₁₅ H ₁₆ O ₇
Molecular Weight:	308.28
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	(+)-Catechin Hydrate is an antioxidant flavonoid of plant origin; a free radical scavenger, preventing free radical-mediated damage in a variety of biological systems.
Targets(IC50)	Antioxidant, COX

Solubility Information

Solubility	DMSO: 240 mg/mL (778.51 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 (6.49 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	3.2438 mL	16.219 mL	32.438 mL
5 mM	0.6488 mL	3.2438 mL	6.4876 mL
10 mM	0.3244 mL	1.6219 mL	3.2438 mL
50 mM	0.0649 mL	0.3244 mL	0.6488 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

Mehra P, et al. Indian J Exp Biol. 2013 Oct;51(10):823-7.

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