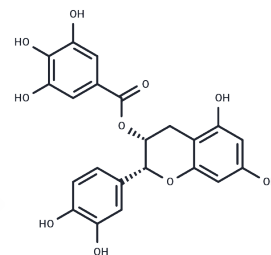


## (-)-Epicatechin gallate

## Chemical Properties

CAS No. :	1257-08-5
Formula:	C <sub>22</sub> H <sub>18</sub> O <sub>10</sub>
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	(-)-Epicatechin gallate ((-)-Epicatechin 3-O-gallate) is one of the catechin isomers and a potent antioxidant that can modulate a wide range of membrane proteins. Its bilayer-modifying potency was tested using gramicidin A (gA) channels as probes. All the catechins alter gA channel function and modify bilayer properties, with a 500-fold range in potency. The gallate group causes current block, as evident by brief downward current transitions.
Targets(IC50)	Autophagy, COX, Virus Protease

## Solubility Information

Solubility	DMSO: 131 mg/mL (296.13 mM), Sonication is recommended. H <sub>2</sub> O: 2.5 mg/mL (5.65 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: 4 mg/mL (9.04 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

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