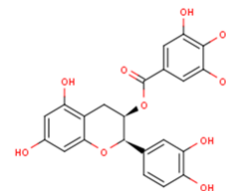


Data Sheet (Cat.No.T2732)

(-)-Epicatechin gallate

Chemical Properties

CAS No.:	1257-08-5
Formula:	C ₂₂ H ₁₈ O ₁₀
Molecular Weight:	442.38
Appearance:	Solid
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	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(IC ₅₀)	Others: None

Solubility Information

Solubility	DMSO: 30 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.261 mL	11.303 mL	22.605 mL
5 mM	0.452 mL	2.261 mL	4.521 mL
10 mM	0.226 mL	1.13 mL	2.261 mL
50 mM	0.045 mL	0.226 mL	0.452 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Rosado H, et al. Int J Mol Sci. 2015 Jul 23;16(8):16710-27.
- 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.

Inhibitors · Natural Compounds · Compound Libraries

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