

(-)-Epigallocatechin-3-(3''-O-methyl) gallate

Chemical Properties

CAS No.:	83104-87-4
Formula:	C ₂₃ H ₂₀ O ₁₁
Molecular Weight:	472.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	(-)-Epigallocatechin-3-(3''-O-methyl)gallate shows antioxidative, cytotoxic, antiallergic, and anti-inflammatory activities, it can negatively regulate basophil activation through the suppression of FcεpsilonRI expression.
Targets(IC ₅₀)	Immunology & Inflammation related: None
In vitro	Catechine showed a strong antioxidative activity. A preliminary test using rat cancer cells suggests that catechine also has a strong cytotoxic activity. Among tested catechins, only catechine has strong activity for both[1]

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.117 mL	10.584 mL	21.169 mL
5 mM	0.423 mL	2.117 mL	4.234 mL
10 mM	0.212 mL	1.058 mL	2.117 mL
50 mM	0.042 mL	0.212 mL	0.423 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

1. Antioxidative activity of (-)-epigallocatechin-3-(3''-O-methyl)gallate isolated from fresh tea leaf and preliminary results on its biological activity. Agr. Biol. Chem., 2000, 64(10):2218-20.

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