

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

Chemical Properties

CAS No.:	83104-86-3
Formula:	C ₂₃ H ₂₀ O ₁₀
Molecular Weight:	456.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	(-)-Epicatechin-3-(3''-O-methyl) gallate is a natural product from <i>Acacia catechu</i> (L.F.) Willd.
Targets(IC ₅₀)	Others: None
In vitro	<p>METHODS AND RESULTS:In Japanese green teas such as Matcha (powdered green tea or ceremony tea), high quality Sencha (Sencha : a ordinary Japanese green tea), medium Sencha, Bancha (coarse type green tea) and Hojicha (roasted green tea), the sum of four major catechins, i.e. (-)-epigallocatechin-3-gallate, (-)-epicatechin-3-gallate, (-)-epigallocatechin and (-)-epicatechin were dominant in the total catechin contents. In addition, those teas contained the heat-converted catechins, i.e. (-)-galocatechin-3-gallate, (-)-catechin-3-gallate, (-)-galocatechin and (-)-catechin in a small amount. A somewhat large amounts of the heat-converted catechins were observed to appear in Hojicha. Chinese green teas such as Lung Ching tea, Yunnan tea and gun powder, Vietnamese green tea and Indian green teas such as Darjeeling green tea and Darjeeling silver tip contained much more total catechin contents and in those (-)-epigallocatechin-3-gallate showed a especially higher content in comparison with the Japanese ones. CONCLUSIONS: (-)-Epigallocatechin-3-(3'-O-methyl) gallate, (-)-Epicatechin-3-(3''-O-methyl) gallate, (-)-epigallocatechin-3,5-digallate and (-)-epicatechin-3,5-digallate were found in Chinese, Vietnamese and Indian green teas. The two catechin-(O-methyl) gallates and the two catechin-digallates were presumably characteristic constituents of China variety (<i>Camellia sinensis</i> var. <i>sinensis</i>) and Assam variety (<i>Camellia sinensis</i> var. <i>assamica</i>), respectively.</p>

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	2.191 mL	10.955 mL	21.911 mL
5 mM	0.438 mL	2.191 mL	4.382 mL
10 mM	0.219 mL	1.096 mL	2.191 mL
50 mM	0.044 mL	0.219 mL	0.438 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. HPLC Analysis of Catechins in Various Kinds of Green Teas Produced in Japan and Abroad. Nippon Shokuhin Kogyo Gakkaishi , 1999 , 46 (3) :138-147.

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