

(-)-Epigallocatechin-3-O-(4-O-methyl)gallate

Chemical Properties

CAS No. :	224434-07-5
Formula:	C ₂₃ H ₂₀ O ₁₁
Molecular Weight:	472.4
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	(-)-Epigallocatechin-3-O-(4-O-methyl)gallate is an orally active catechin derivative found in Taiwanese oolong tea. This compound can inhibit histamine release and possesses anti-inflammatory and antiallergic properties. It is useful in immunology and inflammation research, such as in studies of type I hypersensitivity reactions.
Targets(IC50)	Others
In vitro	(-)-Epigallocatechin-3-O-(4-O-methyl)gallate, also known as Compound C-2, at a concentration of 50 µg/mL, inhibits histamine release from IgE/antigen-activated mouse mast cells by 45%. When used at a concentration of 500 µg/mL for 15 minutes, it demonstrates excellent plasma stability with a degradation rate of 10%.
In vivo	Compound C-2, (-)-Epigallocatechin-3-O-(4-O-methyl)gallate, administered orally at doses of 5-50 mg/kg, can significantly inhibit Type I allergic reactions in mice sensitized with ovalbumin and incomplete Freund's adjuvant.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1169 mL	10.5843 mL	21.1685 mL
5 mM	0.4234 mL	2.1169 mL	4.2337 mL
10 mM	0.2117 mL	1.0584 mL	2.1169 mL
50 mM	0.0423 mL	0.2117 mL	0.4234 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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