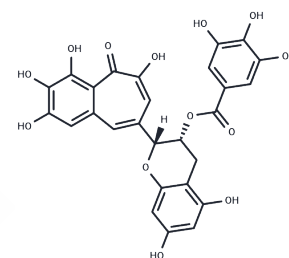


Epitheaflagallin 3-O-gallate

Chemical Properties

CAS No. :	102067-92-5
Formula:	C ₂₇ H ₂₀ O ₁₃
Molecular Weight:	552.44
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	Epitheaflagallin 3-O-gallate is a promising functional food material with potential antiobesity and antiperiodontal disease activities, suppressing tumor growth through [the] suppression of angiogenesis.
Targets(IC50)	MMP
In vitro	The constituents of laccase-treated green tea extract in the presence of gallic acid are thus quite different from those of nonlaccase-treated green tea extract: EGC and EGCg are present in lower concentrations, and ETFG and ETFGg are present in higher concentrations. Additionally, laccase-treated green tea extract contains further polymerized catechin derivatives, comparable with naturally fermented teas such as oolong tea and black tea. We found that ETFGg and laccase-treated green tea extracts exhibit versatile physiological functions in vivo and in vitro, including antioxidative activity, pancreatic lipase inhibition, Streptococcus sorbinus glycosyltransferase inhibition, and an inhibiting effect on the activity of matrix metalloprotease-1 and -3 and their synthesis by human gingival fibroblasts.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8102 mL	9.0508 mL	18.1015 mL
5 mM	0.362 mL	1.8102 mL	3.6203 mL
10 mM	0.181 mL	0.9051 mL	1.8102 mL
50 mM	0.0362 mL	0.181 mL	0.362 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

Functional Characterization of Epitheaflagallin 3-O-Gallate Generated in Laccase-Treated Green Tea Extracts in the Presence of Gallic Acid. *J Agric Food Chem.* 2017 Dec 6;65(48):10473-10481.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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