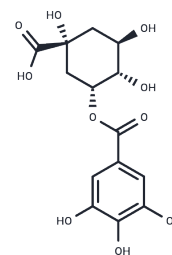


5-Galloylquinic acid

Chemical Properties

CAS No. :	53584-43-3
Formula:	C ₁₄ H ₁₆ O ₁₀
Molecular Weight:	344.27
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	5-Galloylquinic acid as an index for the baking intensity of oolong teas. It has antioxidant activity.
Targets(IC50)	Reactive Oxygen Species, ROS
In vitro	Phenolic compounds in a series of old oolong teas prepared by baking annually were monitored and compared. The results showed that the relative content of gallic acid over 5-Galloylquinic acid was subsequently elevated during this preparatory process. To reveal the effect was mainly resulted from baking or aging, two sets of oolong teas were collected and examined; one set was generated from fresh oolong tea via continually daily baking and the other set was composed of aged oolong teas with no or light baking in the storage period. The relative content of gallic acid over 5-Galloylquinic acid was observed to be subsequently elevated when oolong tea was continually baked at 90, 100, 110, and 120 °C for 8 h day after day. In contrast, the relative contents of gallic acid over 5-Galloylquinic acid in aged oolong teas with no or light baking were found to be similar to or slightly higher than that in fresh oolong tea.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9047 mL	14.5235 mL	29.047 mL
5 mM	0.5809 mL	2.9047 mL	5.8094 mL
10 mM	0.2905 mL	1.4523 mL	2.9047 mL
50 mM	0.0581 mL	0.2905 mL	0.5809 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

Relative content of gallic acid over 5-galloylquinic acid as an index for the baking intensity of oolong teas. Journal of Food and Drug Analysis, 2017,26(2):609-619.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481