

1,2,3,6-Tetragalloylglucose

Chemical Properties

CAS No.:	79886-50-3
Formula:	C ₃₄ H ₂₈ O ₂₂
Molecular Weight:	788.57
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	1,2,3,6-Tetragalloylglucose has antioxidative activity, it also shows the most potent anticomplement activity (IC ₅₀ , 34 microM).
Targets(IC ₅₀)	LDL: None
In vitro	Two phenolics, 1,2,6-trigalloylglucose (1) and 1,2,3,6-Tetragalloylglucose (2), isolated from the stem-bark of <i>Juglans mandshurica</i> were evaluated for their antioxidative activities. The results showed that compounds 1 and 1,2,3,6-Tetragalloylglucose exhibited strong scavenging activities against 1,1'-diphenyl-1-picrylhydrazyl (DPPH), 2,2'-azino-bis-(3-ethylbenzthiazoline-6-sulphonic) acid (ABTS(*+)), and superoxide radicals (O ₂)(* ⁻), and also had a significant inhibitory effect on lipid peroxidation and low-density lipoprotein (LDL) oxidation[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	1.268 mL	6.341 mL	12.681 mL
5 mM	0.254 mL	1.268 mL	2.536 mL
10 mM	0.127 mL	0.634 mL	1.268 mL
50 mM	0.025 mL	0.127 mL	0.254 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. 1. Antioxidative activities of galloyl glucopyranosides from the stem-bark of *Juglans mandshurica*. *Biosci Biotechnol Biochem.* 2008 Aug;72(8):2158-63.

Inhibitors · Natural Compounds · Compound Libraries

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