

Luteollin 5-glucoside

Chemical Properties

CAS No.:	20344-46-1
Formula:	C ₂₁ H ₂₀ O ₁₁
Molecular Weight:	448.38
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Luteolin 5-O- α^2 -glucopyranoside has antioxidant activity, it can inhibit lipid peroxidation, and has DPPH radical-scavenging activity.
Targets(IC ₅₀)	others: None
In vitro	An anaerobic, quercetin-degrading bacterium was isolated from human feces and identified as <i>Clostridium orbiscindens</i> by comparative 16S rRNA gene sequence analysis. The organism was tested for its ability to transform several flavonoids. The isolated <i>C. orbiscindens</i> strain converted quercetin and taxifolin to 3,4-dihydroxyphenylacetic acid; luteolin and eriodictyol to 3-(3,4-dihydroxyphenyl)propionic acid; and apigenin, naringenin, and phloretin to 3-(4-hydroxyphenyl)propionic acid, respectively. Genistein and daidzein were not utilized[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	2.23 mL	11.151 mL	22.303 mL
5 mM	0.446 mL	2.23 mL	4.461 mL
10 mM	0.223 mL	1.115 mL	2.23 mL
50 mM	0.045 mL	0.223 mL	0.446 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. Anaerobic degradation of flavonoids by *Clostridium orbiscindens*. *Appl Environ Microbiol.* 2003 Oct;69(10):5849-54.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481