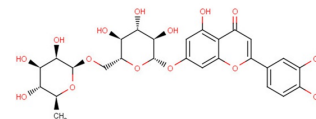


Luteolin-7-rutinoside

Chemical Properties

CAS No.:	20633-84-5
Formula:	C ₂₇ H ₃₀ O ₁₅
Molecular Weight:	594.52
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Luteolin-7-rutinoside has both antifungal activities and anti-arthritic, can result in a combination therapy for the treatment of fungal arthritis due to <i>C. albicans</i> infection.
Targets(IC ₅₀)	Others: None
In vitro	Luteolin-7-rutinoside at 40 µg/mL dose give almost the same rate of T cell proliferation as does 20 µg/mL dose of Luteolin-7-rutinoside. The suppressive activity is dose dependent. At a dose of 10 µg Luteolin-7-rutinoside (lonicerin)/mL, there is an approximately 47% decrease of the proliferation as compared to proliferation of Luteolin-7-rutinoside treated (control) T cells (p<0.05). Luteolin-7-rutinoside treatment shifts Th1-Th2 balance away from Th1-toward Th2-type responses. Luteolin-7-rutinoside inhibits nitric oxide (NO) production from macrophages[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	1.682 mL	8.41 mL	16.82 mL
5 mM	0.336 mL	1.682 mL	3.364 mL
10 mM	0.168 mL	0.841 mL	1.682 mL
50 mM	0.034 mL	0.168 mL	0.336 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. Lee JH, et al. Antiarthritic effect of lonicerin on *Candida albicans* arthritis in mice. Arch Pharm Res. 2011 May;34(5):853-9.

Inhibitors · Natural Compounds · Compound Libraries

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