Product Data Sheet

Product Name: Luteolin-7-rutinoside
Cat. No.: GC36497

Chemical Properties

Cas. No.	20633-84-5		
SMILES	O=C1C=C(C2=CC=C(O)C(O)=C2)OC3=CC(O[C@H]4[C@@H]([C@H]([C@@H]([C@@H](CO[C@H]5[C@@H]([C@@H]([C@H]([C@H](C)O5)O)O)O)O4)O)O)O)=CC(O)=C13		
Formula	$C_{27}H_{30}O_{15}$	M.Wt	594.52
Solubility	DMSO : 100 mg/mL (168.20 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	Luteolin-7-rutinoside		

Background

Luteolin 7-O-rutinoside is a polyketide-derived flavonoid glycoside that has been found in *V. bugulifolium* and has diverse biological activities.[1,2,3] It scavenges DPPH radicals in a cell-free assay when used at concentrations ranging from 1 to 50 ?M.[2] Luteolin 7-O-rutinoside is active against *B. subtilis, S. aureus, A. tumefaciens, M. luteus, E. coli*, and *P. aeruginosa* (MICs = 100-200 ?g/ml).[3] It is also active against *C. albicans, S. cerevisiae*, and *C. lusitaniae* (MICs = 100, 200, and 50 ?g/ml, respectively) and the plant pathogenic fungus *A. niger* (MIC = 100 ?g/ml). Luteolin 7-O-rutinoside (57.6 ?g/animal) decreases hepatic and renal injury and increases survival in a mouse model of polyphosphate-induced lethal endotoxemia.[4]

1.Fraga, C.G.Plant Phenolics and Human Health: Biochemistry, Nutrition and PharmacologyThe Wiley-Iubmb series on biochemistry and molecular biology(2010) 2.Wang, W., Simon, J.E., Aviles, I.F., et al.Analysis of antioxidative phenolic compounds in artichoke (Cynara scolymus L.)J. Agric. Food Chem.51(3)601-608(2003) 3.Zhu, X.,

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Zhang, H., and Lo, R.Phenolic compounds from the leaf extract of artichoke (Cynara scolymus L.) and their antimicrobial activitiesJ. Agric. Food Chem.52(25)7272-7278(2004) 4.Lee, I.-C., and Bae, J.-S.Anti-inflammatory effects of vicenin-2 and scolymoside on polyphosphate-mediated vascular inflammatory responsesInflamm. Res.65(3)203-212(2016)

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