Data Sheet (Cat.No.TN3699)

TargetMol
A DRUG SCREENING EXPERT

Corchoionoside C

Chemical Properties

CAS No.:	185414-25-9
Formula:	C19H30O8
Molecular Weight:	386.4
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Corchoionoside C has antioxidant activity, shows strong scavenging activities on DPPH radical, it also shows weak antifungal activity. Corchoionosides A, B, and C inhibit the histamine release from rat peritoneal exudate cells induced by antigen-antibody reaction.
Targets(IC_{50})	Antifection: None Histamine Receptor: None
In vitro	Study on the chemical constituents from Cibotium barometz and their scavenging activities for 2,2-diphenyl-2-picrylhydrazyl(DPPH) radical.METHODS AND RESULTS: The chemical constituent from70% alcohol extract of C.barometz was isolated on chromatograph of silica gel and sephadex LH-20 and HPLC,their structure were elucidated on the basis of spectra data and the compounds were tested for their scavenging activities on DPPH radical.Ten compounds were purified and their structure were identified as 1-O-caffeyl-D-glucopyranose(1),6-O-caffeyl-D-glucopyranose(2),3-O-caffeyl-D-glucopyranose(3),3-hydroxymethyl-2(5H)-furanone(4),β-miroside(5),cibotiumbaroside A(6),protocatechuic acid(7),glucose(8),mannose(9),Corchoionoside C(10),kojic acid(11).Three isolated compounds showed strong scavenging activities on DPPH radical.CONCLUSIONS:Compound 1-5 were isolated for the first time from C.barometz.among of them,compound 1,compound 3 and compound 6 showed significant antioxidant activity,and the scavenging activity of compound 1 was similar to that of Vit C.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.588 mL	12.940 mL	25.880 mL
5 mM	0.518 mL	2.588 mL	5.176 mL
10 mM	0.259 mL	1.294 mL	2.588 mL
50 mM	0.052 mL	0.259 mL	0.518 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Chemical Constituents from Cibotium barometz and their Scavenging Activities for DPPH Radical. Chinese Journal of Experimental Traditional Medical Formulae, 2012, 18(24):162-6.

2. Isoswertisin flavones and other constituents from Peperomia obtusifolia. Nat Prod Res. 2011 Jan;25(1):1-7.

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