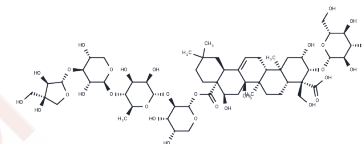


Platyconic acid A

Chemical Properties

CAS No. :	68051-23-0
Formula:	C57H90O29
Molecular Weight:	1239.318
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Platyconic Acid A, derived from changkil saponins extracted from platycodon grandiflorum, is a potent compound employed for studying the mitigation of airway inflammation.
Targets(IC50)	Others
In vitro	Platyconic Acid A, at concentrations ranging from 0.5 to 2 μ M and applied for 30 minutes to A549 cells, concentration-dependently inhibits PMA-induced phosphorylation of NF- κ B p65, I κ B α , and Akt, and the degradation of I κ B α [1]. In addition, a 24-hour exposure to the same concentration range of Platyconic Acid A notably reduces PMA-induced MUC5AC mRNA expression in A549 cells, also in a concentration-dependent manner[1]. This is supported by Western Blot Analysis, which confirms the inhibition of NF- κ B p65, I κ B α phosphorylation and degradation, and Akt phosphorylation; and RT-PCR results demonstrating a decrease in MUC5AC mRNA expression under the specified conditions [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8069 mL	4.0345 mL	8.0689 mL
5 mM	0.1614 mL	0.8069 mL	1.6138 mL
10 mM	0.0807 mL	0.4034 mL	0.8069 mL
50 mM	0.0161 mL	0.0807 mL	0.1614 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Choi JH, et al. Saponins, especially platyconic acid A, from Platycodon grandiflorum reduce airway inflammation in ovalbumin-induced mice and PMA-exposed A549 cells. J Agric Food Chem. 2015;63(5):1468-1476.

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