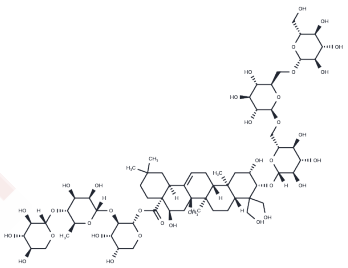
Data Sheet (Cat.No.TN1555)

TargetMol

Platycoside G1

Chemical Properties



CAS No. : 849758-42-5

Formula: C64H104O34

Molecular Weight: 1417.49

Storage: Store at low temperature,Keep away from direct sunlight
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	Platycoside G1 (Deapi-platycoside E) may have anti-inflammatory effects.
Targets(IC50)	Others
In vitro	The change of the platycoside compositions was investigated after 1, 2, 3, 6 and 9h heat processing of Platycodi Radices by using HPLC coupled with an evaporative light scattering detection (ELSD) system. After heat treatment (125 °C, 1, 2, 3, 6 and 9 h), the contents of several platycosides such as platycoside E, platycodin D3, platycodin D, polygalacin D, and platycodin A decreased as the processing time was longer. While the total contents of the saponins decreased, the contents of deapi-forms of Deapi-platycoside E, deapi-platycodin D3, and deapi-platycodin D increased relatively. These results indicate that the linkage between apiose and xylose located at C-28 is labile to heat and pressure. The LPS-induced iNOS inhibitory activities of the samples treated for 1 and 2 hours were enhanced and after then, the activities were reduced.

Solubility Information

Solubility	DMSO: 75 mg/mL (52.91 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7055 mL	3.5274 mL	7.0547 mL
5 mM	0.1411 mL	0.7055 mL	1.4109 mL
10 mM	0.0705 mL	0.3527 mL	0.7055 mL
50 mM	0.0141 mL	0.0705 mL	0.1411 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

Compositional analysis of major saponins and anti-inflammatory activitiy of steam-processed platycodi radix under pressure. Natural Product Sciences, 2008, 14(4):274-280.
Lee S J, Kim H W, Lee S, et al. Characterization of Saponins from Various Parts of Platycodon grandiflorum Using UPLC-QToF/MS. Molecules. 2022, 27(1): 107.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481