Data Sheet (Cat.No.TMS0943)

TargetMol

Platicodigenin

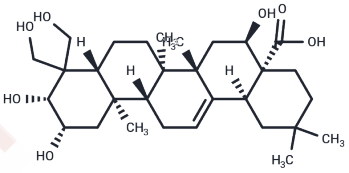
Chemical Properties

CAS No. : 22327-82-8

Formula: C30H48O7

Molecular Weight: 520.7

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	Platicodigenin (Platycodigenin) isolated from platycodon grandiflorum, has in vitro anti-proliferative activity against the HSC-T6 cell line.
Targets(IC50)	Others
In vitro	Two new oleanane-type triterpenoids, named platycodonoids A and B (1, 2), together with five known saponins, including platycodin D (3), deapioplatycodin D (4), 3-O-β-D-glucopyranosyl polygalacic acid (5), 3-O-β-D-glucopyranosyl Platycodigenin (6) and polygalacin D (7), were isolated from the roots of Platycodon grandiflorum. METHODS AND RESULTS: On the basis of spectral data and chemical evidence, the structures of the new compounds were elucidated as 2β,3β,23,24-tetrahydroxy-28-nor-olean-12-en-16-one (1) and 2β,3β,23,24- tetrahydroxy-28-nor-olean-12-en-16-one-3-O-β-D-glucopyranoside (2). Compounds 1-7 were evaluated for their in vitro anti-proliferative activity against the HSC-T6 cell line.

Solubility Information

Solubility	DMSO: 60 mg/mL (115.23 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9205 mL	9.6025 mL	19.2049 mL
5 mM	0.3841 mL	1.9205 mL	3.841 mL
10 mM	0.192 mL	0.9602 mL	1.9205 mL
50 mM	0.0384 mL	0.192 mL	0.3841 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

Two new oleanane-type triterpenoids from Platycodi Radix and anti-proliferative activity in HSC-T6 cells. Molecules. 2012 Dec 13;17(12):14899-907.

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