

Asperosaponin VI

Chemical Properties

CAS No. : 39524-08-8

Formula: C₄₇H₇₆O₁₈

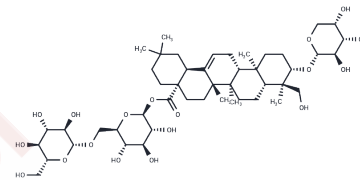
Molecular Weight: 929.10

Storage:

Store at low temperature, Keep away from direct sunlight, Keep away from moisture

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	Asperosaponin VI (Akebia saponin D), the most abundant constituent of the rhizome of <i>Dipsacus asper</i> , has been used for the treatment of lower back pain, traumatic hematoma and bone fractures.
Targets(IC50)	Apoptosis, HIF/HIF Prolyl-Hydroxylase, Akt, Caspase, p38 MAPK, PERK, PPAR
Kinase Assay	Cells are grown on 12-mm diameter glass coverslips in DMEM 100% serum and various concentrations of KN-93 or KN-92. After 0, 1, 2, and 3 days of culture in the presence of drug, coverslips are removed from culture, rinsed once in PBS, and then submerged in 100% methanol at -20°C for 3 min. Fixed cells are stored in PBS until staining using the TUNEL assay. Cells are overlaid on 20 µL PBS/1 mg/mL BSA for 30 min, rinsed in PBS, and then overlaid on 20 µL containing 100 mM sodium cacodylate (pH 6.8), 1 mM CoCl ₂ , 0.1 mM DTT, 0.1 mg/mL BSA, 20 µM fluorescein-12-dUTP, and 0.1 unit/µL terminal transferase at 37°C for 60 min. Coverslips are rinsed in PBS twice, mounted on slides, and photographed using an OLYMPUS BX50 epifluorescent microscope using a UPLAN APO 40X oil immersion objective.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble) DMSO: 99.41 mg/mL (107.00 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.30 mg/mL (3.55 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0763 mL	5.3816 mL	10.7631 mL
5 mM	0.2153 mL	1.0763 mL	2.1526 mL
10 mM	0.1076 mL	0.5382 mL	1.0763 mL
50 mM	0.0215 mL	0.1076 mL	0.2153 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

Song L, et al. Nat Prod Commun. 2014 Jun;9(6):773-8.

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