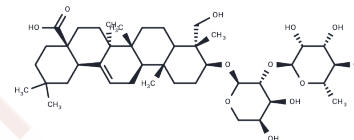


Alpha-Hederin

Chemical Properties

CAS No. :	27013-91-8
Formula:	C41H66O12
Molecular Weight:	750.96
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Alpha-Hederin (Tauroside E) is a water-soluble pentacyclic triterpenoid saponin found in the seeds of <i>Nigella sativa</i> , with hemolytic and apoptotic properties.
Targets(IC50)	Apoptosis
Kinase Assay	For affinity determination, Nuciferine is subjected to primary radioligand binding assays tested at a single 10 μ M concentration to displace 50% of the radioligand at a given receptor target. If a more than 50% of the radioligand is displaced, Nuciferine is selected for a secondary binding assay tested at 11 concentrations in triplicate in competition with the radioligand to generate an IC50 and Ki. Binding assays are performed in 96-well plates with 125 μ L per well in appropriate binding buffer using radioligand at or near the Kd. Plates are incubated at room temperature in the dark for 90 min. Reactions are stopped by vacuum filtrations onto 0.3% polyethyleneimine soaked 96-well filter mats using a 96-well Filtermate harvester, followed by at least three washes of cold wash buffer. Scintillation cocktail is melted onto dried filters and radioactivity is counted using a Wallac Trilux Microbeta[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (133.16 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	5% DMSO+40% PEG300+5% Tween80+50%: 2 mg/mL (2.66 mM) <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	1.3316 mL	6.6581 mL	13.3163 mL
5 mM	0.2663 mL	1.3316 mL	2.6633 mL
10 mM	0.1332 mL	0.6658 mL	1.3316 mL
50 mM	0.0266 mL	0.1332 mL	0.2663 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

- Randhawa MA, et al. Am J Chin Med. 2011;39(6):1075-91. ;
Fallahi M, et al. Avicenna J Phytomed. 2016 Jan-Feb;6(1):77-85.

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