

## Hederacolchiside A1

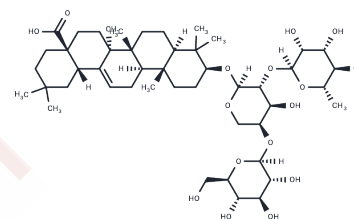
### Chemical Properties

CAS No. : 106577-39-3

Formula: C47H76O16

Molecular Weight: 897.1

Storage: 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	Hederacolchiside A1 (Raddeanoside R13) shows anti-leishmanial activity, it exhibits a strong antiproliferative activity on all stages of development of the parasite by altering membrane integrity and potential. Hederacolchiside A1 shows antiproliferation activities in three cancer cell lines with the IC50 value of 2.4 uM, it exhibits a preferential cytotoxicity on a pigmented melanoma cell line. It suppresses proliferation of tumor cells by inducing apoptosis through modulating PI3K/Akt/mTOR signaling pathway.
Targets(IC50)	Apoptosis,ERK,MEK,Akt,Parasite,mTOR,PI3K

### Solubility Information

Solubility	DMSO: 250 mg/mL (278.68 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: 3.3 mg/mL (3.68 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

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	1mg	5mg	10mg
1 mM	1.1147 mL	5.5735 mL	11.147 mL
5 mM	0.2229 mL	1.1147 mL	2.2294 mL
10 mM	0.1115 mL	0.5574 mL	1.1147 mL
50 mM	0.0223 mL	0.1115 mL	0.2229 mL

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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

Wang L , Wang Z , Su S , et al. Synthesis and cytotoxicity of oleanolic acid trisaccharide saponins[J]. Carbohydrate Research, 2017, 442:9-16.

Barthomeuf C , Boivin D , Richard Béliveau. Inhibition of HUVEC tubulogenesis by hederacolchiside-A1 is associated with plasma membrane cholesterol sequestration and activation of the Ha-Ras/MEK/ERK cascade[J]. Cancer Chemotherapy & Pharmacology, 2004, 54(5):432-440.

Delmas F, Giorgio C D , Elias R , et al. Antileishmanial activity of three saponins isolated from ivy, alpha-hederin, beta-hederin and hederacolchiside A1, as compared to their action on mammalian cells cultured in vitro.[J]. Planta Medica, 2000, 66(04):343-347.

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