

## Hederacolchiside A1

## Chemical Properties

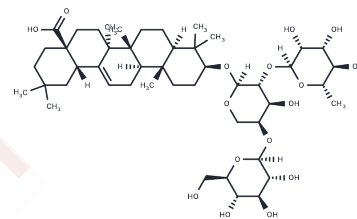
CAS No. : 106577-39-3

Formula: C47H76O16

Molecular Weight: 897.1

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## 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 $\mu$ M, 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: 83.3 mg/mL (92.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	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

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.

### 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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